OAU POST-UME SCREENING Past Questions & Solutions.

2005 - 2010

PREFACE

VNTI Global Resources Ltd Strives To Continue her vision of providing assistance and updates to Every Nigerian student, especially admission seekers and High School Leavers.

In our quest to remain, maintain and sustain our current status as the best and ever first corporate organization that manage the entirety of Nigerian Undergraduates, we had in the past one year embarked on massive compilation, revision, analysis and research on previous post UTME examinations conducted, the feasibility studies and chances of a candidate passing or and of course failing the test. From our research findings, we have found without further verifiable hypothesis that the POST-UTME past questions remain a secret to passing through these tests in success. We therefore present and recommend these past questions for anyone/everyone preparing for this examination.

Our idea in this sense does not focus on duplicating the efforts made by several other Nigerians, Lecturers, teachers and tutors in this direction. We only aimed at correcting some of their shortfalls, and most importantly; making these study, revision and preparatory materials readily available to anyone in any part of the country.

The questions contained herein has been drawn from the candidate's school of interest/choice in the relevant courses to facilitate easy and more result orientated performance. In this respect, actual and real examination questions were extracted from your school of choice and is therefore being presented to you, read well to succeed.

Also to be noted is the fact that THE POST-UTME REGISTRATION FORMS can also be obtained on our website/platform: www.nigerianuniversitynews.com and

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We wish all Nigerian students Goodluck in their pursuit of academic excellence.

Obasi. D. C. Chinedu VNTI Global Resources Ltd

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PLEASE SELECT AND STUDY SUBJECTS THAT ARE RELEVANT TO YOUR COURSE OF STUDY FROM THE BELOW COMPILATION.

OBAFEMI AWOLOWO UNIVERSITY 2006 POST UME SCREENING TEST ENGLISH LANGUAGE

From the words lettered A - E, choose the word that is alike in meaning to the word

underlined.

- 1. The man is known to be a sly. I won't trust him with anything. This means the man is know as a (a) deceiver (b) thief (c) kidnapper(d) rogue (e) burglar
- 2. The woman was happy because her gorgeous dressing made her quite obtrusive. The woman was very (a) appreciate (b) proud (c)good (d) noticeable (e) excellent
- 3. Andrew made some bellicose statement about his strength to other boys in the street. This means that Andrew
- (a) is a brave man (b) Wishes to fight (c) is a coward (d) loves to help others with his power (e) has a lot of power
- 4. Scrupulous politicians do not have a place in the Nigerian politics. Scrupulous politicians are (a) honest (b) dishonest
- (c) corrupt (d) good-nature
- (e) insincere
- 5. The excuse that he forgot about the meeting was a flimsy one. This means the excuse was (a) very bad (b) a complete lie (c) difficult to believe (d) not important (e) a very good one

From the alternatives suggested, select the answer that best expresses the same meaning as the expression italicized in each exercise.

- 6. I wonder if you would allow me to put out the fire. (a) I might (b) I can (c) I should (d) I have to (e)All of them
- 7. Don't take the plate away; it is possible for the owner to ask for it. (a) the owner might (b) the owner can (c) the owner is going to (d) the owner will come to (e) none of them
- 8. I know a carpenter that knows how to make that kind of wardrobe(a) could (b) has the know-how (c) can (d) can be able (e) may be able to
- 9. Frances, where is your male visitor? Don't lie to me, it is not possible that he has gone through the high window. (a) he couldn't have (b) he can't have (c) he shouldn't (d) he mustn't have (e) None of them.
- 10. When your great-grandmother was in Vietnam, did she have the ability to speak Chinese? (a) had she been able (b) was she enabled (c) could she (d) how possible was it for her (e) None of them
- 11. My father made no bones about telling his friend how he felt about his behaviour. This means that my father (a) spoke well to his friend about his behaviour
- (b) spoke honestly to his friend about his behaviour (c) spoke in the open to his friend about his behaviour (d) spoke hesitantly to his friend about his behaviour
- (e) spoke with all his might to his friend about has behaviour
- 12. After much talk, my brother thought it was to hit the hay. This means that my brother thought it was time to (a) make hay while the sun shines (b) burn the collection of hay (c) go to bed (d) keep quiet (e) tell the others off
- 13. The housemaster was foaming in the mouth when he discovered the some students had sneaked out of t6he hostel. This means the house master (a) was very sad

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- (b) had epilepsy (c) became silent and calculative (d) was uncontrollably furious (e) was jittery
- 14. Who told Mabel she could sing? She really laid an egg at the talent show. This means
- (a) Mabel's performance was very embarrassing (b) Mabel's performance was very interesting (c) Mabel's performance was very impressive (d) Mabel's performance was not very bad (e) Mabel's performance was like that of a hen
- 15. Mr. Johnson is on the warpath because his car broke down again. This means Mr. Johnson is (a) ready to fight his mechanic
- (b) started fighting the government because the road was bad (c) very infuriated
- (d) fighting a war with his family in the car (e) drawing a battle in between him and his mechanic

FOR QUESTION 16-20, choose among the options A - E the word that is nearest in meaning to the italicized word in each of the sentences

- 16. As he watched the winning film his face remained inscrutable. (a) unreadable
- (b) pale (c) unfriendly
- (d) impossible to please
- (e) enjoyed

laying an egg

- 17. He resented being criticized every time by his boss.
- (a) preferred (b) abhorred
- (c) ignored (d) carefully considered (e) enjoyed
- 18. The President announced that all political prisoners have been pardoned. (a) condemned
- (b) severely rebuked (c) banished (d) reprieved (e) released
- 19. The most striking thing about the just-concluded World-Cup Final in Germany was the complete eclipse of the defending champion Brazil
- (a) sudden disappearance (b) defeat (c) failure (d) brilliant performance (e) arrogance
- 20. His latest album has done much to boast his reputation as a writer (a) increase (b) establish
- (c) nourish (d) destroy (e) decrease

For question 21 - 25, choose from the options A - E the word or phrase opposite in meaning to the underlined word.

- 21. Andrew is too garrulous for my liking (a) dull (b) apathetic
- (c) laconic (d) easy going (e) dumb
- 22. The man holds parochial view on almost every issue. (a) rational (b) realistic (c) popular (d) broad- minded (e) sensible
- 23. The doctor certified the tumour malignant (a) benign (b) ripe (c) painless (d) dangerous (e) slow
- 24. The people appreciated the chairman for his invaluable contributions to the community's development. (a) worthless (b) costly (c) unrecognized (d) incalculable (e) meaningless
- 25. Your idea on this issue seems to me quite novel. (a) bookish (b) dangerous (c) archaic (d) genuine (e) good
- 26. Which of the following statements is true with regard to summary writing? (a) Details are more important than main ideas (b) Main ideas are more important than examples (c) Illustrations are more important than main ideas (d) Elaborations,

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exemplifications and details are more important than main ideas (e) None of the above **Choose the appropriate option to complete the following:**

- 27. God should take control of the heart of the organizers of this Post-UME screening exercise, they should not make this test ______than UME (a) more tough (b) more tougher (c) much tougher (d) more much tougher
- 28. At the crusade, we prayed to God to ______this on us.(a) breath His breathe (b) breathe His breath (c) breathe His breath
- 29. The Chairman, Committee of Deans needs to see your friend Dele urgently, do you know his? (a) where and about (b) where abouts (c) where about (d) where and abouts 30. "As from now, this university will have zero tolerance for any form of malpractice" said the Vice- Chancellor. The Vice-Chancellor said that (a) as from then, that university would have zero tolerance for any form of malpractice (b) as from then, his university will have zero tolerance for any form of malpractice (d) as from then, that university will have zero tolerance for any form of malpractice (d) as from then, that university would begin to have zero tolerance for any form of malpractice
- 31. The teacher took me for one of those students who could not spell such words as
- (a) 'miscellaneous and maintenance'
- (b) 'miscellaneous and maintenance'
- (c) 'miscellaneous and maintenance'
- (d) 'miscellaneous and maintenance'

ANSWER KEY

1. A 2 D 3 B 4D 5 C 6B 7A 8 C 9 A 10C 11B 12 C 13 D 14 A 15 C 16 A 17 B 18 E 19 A 20 B 21C 22D 23 A 24A 25 C 26 B 27 A 28 B 29C 30 B 31 C

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OBAFEMI AWOLOWO UNIVERSITY ENGLISH 2007 POST UME TEST

"When he was turned over, his eyeballs stared upward in amazement and horror, His

mouth was locked torn wide: his trousers soaked with blood, were torn open, and exposed

to the cold, white air of morning the thick hairs of his groin, mattered together, black and

rust red, and the wound that seemed to be throbbing still".

- 1. This passage achieves realism through the
- b. simple words
- c. the long sentence d. the past tense

Earth has not anything to show more fair Dull would he be of soul who could pass by A

sight so touching in its majesty This city now doth, like garment, wear The beauty of the

morning

- 2. It is suggested in these lines that
- a. The beauty of the morning gains from the beauty of the city
- b. The beauty of the city gains from the beauty of the morning
- c. The beauty of the city and the beauty of the morning are unrelated.
- d. There is no beauty on earth

If I can fasten but one cup upon him with that which he had drunk tonight already. He'll

be as full of quarrel and offences as my young mistress dog.......... Shakespeare, Othello

- 3. From the statement above it can be inferred that the speaker is
- a. Disobedient
- b. Quarrelsome
- c. A drunkard

That that is why wwe must acc - c- cept the uni- versal d - d dome, b - b - because

ththere is no d-d-d direction. The b-b-b ridge is the d-d-d ome of religion

and b - b - bridges d - ddon' tjjjust g - g - go from hhhere to the there; a bridge

also faces backwards".

Wole Soyinka, The Interpreters

- 4. The idiolectical feature of the character's speech is the
- a. Repetition of consonant sounds
- b. Repetition of initial consonant sounds
- c. Duplication of consonant sound clusters
- d. Multiplication of dipthongs

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5. "As virtuous men pass wildly away, And higher to their souls, to go, Whilst some of

their sad friends do say, The breadth goes now", and some say "No".

The tone of this poem is generally

- a. Appreciative b. Serious
- c. Imaginative d. Conversational
- 6. I am alone

And the murmur of my lips

Carry song and tears homewards

From a plain away from home

"Okogbule Wonodi, Lament for Shola"

The poet-persona here expresses a feeling of

- a. Love b. Anger
- c. Nostalgia d. Sorrow
- 7. One rhyme scheme typical of the English sonnet is

Abba abba cde cde

Abba abba cde dce

Abab cdcd efef gg

Abcd babb cde cc

- 8. Farce thrives on
- a. Big events b. promotion c. Absurdity d. incident
- 9. A short witty statement is an
- a. Epistle b. Eulogy

Epigram d. Anecdote

- 10. In a narration, the first person is
- a. The author b. A participant
- c. The publisher d. An observer
- 11. A literary device that creates a mental picture of a situation is
- a. Imagery b. Symbolism
- c. Flashback d. Epilogue
- 12. Periphrasis in poetic diction is marked by
- a. Circumlocution b. Irony
- c. Proverb d. Parable
- 13. A deliberate imitation of a literary style with the intention to ridicule is
- a. Lampoon b. Prosody
- c. Pun d. Parody
- 14. What happened to Tess at the end of

Thomas Hardy's Tess of the D'urbervilles

- a. She is executed for committing murder
- b. She got married to Angel Clare
- c. She got married to Alec D'urbervilles
- d. She gave birth to a baby boy

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- 15. The wood where Alec raped Tess is known as
- a. Chaseborough b. The chase
- c. Greenhill d. Tranfridge
- 16. The name of the place where Tess and Angel Clare meet each other the second time
- a. trantridge b. Brazil
- c. Dubeyfield d. TAlbothays farm
- 17. "Taxi Driver" in Timothy Wangusa's "A Taxi driver on his Death "can be interpreted
- as a metaphor describing:
- a. a careful driver b. a ruthless dictator
- c. a drunkard d. a careless man
- 18. The tone in Dennis Brutus' "A Troubador I Traverse "can be described as:
- a. defiant b. submissive c. regretful d. arrogant
- 19. "Naett" in Leopold e Sedar Senghor's "1 will Pronounce your Name" refers to:
- a. South Africa b. A woman
- c. A man d. Black Africa
- 20. Cloud I, early sequestered from my tribe, Free a lead tethered scribe". The above lines from J.P. Clark's "Agbor

Dancer" suggest that the person is:

- a. One with his tribe
- b. Alienated from his tribe
- c. One of the dancers
- d. One of the drummers
- 21. The name of the author of "We Must

Learn to Fly is:

- a. Dennis Brutus
- b. Leopold Sedar Senghor
- c. Odia Ofeimun d. Wole Soyinka
- 22. One of the following is a characteristic of a novel:
- a. it is written only in dialogues
- b. it adopts the poetic form c. it is written mainly in prose d. it employs phrases and

sentences

- 23. The Law protecting works of art from unlawful reproduction is called:
- a. plagiarism b. illegal photocopying
- c. authorization d. copywright
- 24. The play hamlet may be described as a tragedy of:
- a. belief in ghosts
- b. marital infidelity
- c. indecision and procrastination
- d. inordinate love of father by son

ANSWER KEY

1 A 2 B 3D 4 C 5B 6 C

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7 C 8D 9C IOA 11A 12A 13D 14 A 15 - 16 - 17D 18A 19 B 20 B 21 C 22 C 23D 24A

OBAFEMI AWOLOWO UNIVERSITY ENGLISH

2008 POST UME TEST

- 1. An autobiographical novel is:
- a. A novel written about another novelist
- b. A true account of a novelist's life by himself
- c. A novel in which the novelist draws mainly on materials from his own life
- d. A novel using the 'I' pronoun
- 2. Plot in prose fiction is best defined as:
- a. The cause and effect sequence of events
- b. The brief summary of events
- c. The central event
- d. The subject matter of a novel
- 3. Which of these is not true about unity of action in a novel?
- a. Action may be unified through a single main character
- b. Action may be unified by being set in one place
- c. Action may be unified by many characters
- d. Action may be unified by having one consistent point of view
- 4. Action in a novel is best defined as:
- a. The summary of the novel's story
- b. What the characters do or say in the novel
- c. The numerous sub plots of the novel put together
- d. The totality of all the episodes in a novel leading to the conclusion
- 5. Suspense in a novel means
- a. the postponement of the hero's death till the last possible moment
- b. the intense emotions that the author conveys
- c the inconclusive end of a novel
- d. when we are curious about what happens next in a novel
- 6. A realistic novel is one in which the characters are:
- a. real
- b. historical
- c. just of above average intelligence
- d. the types that we meet in everyday life
- 7. Theme is best defined as:
- a. The subject matter of a novel or play the b. central idea in a play or novel
- c. The point of view in that novel
- d. The sum total of all the characters experiences
- 8. What figure of speech does the following quotation contain?
- Life's but a walking shadow (Macbeth)
- a. A metaphor b. An image
- c. A synecdoche d. An allusion
- 9. Which of the following statement is most true about poetry?

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- a the meaning of words are more important than their sounds
- b. the sounds of words are more important than their meanings
- c. the sound of words are often more important than their meanings
- d sounds and meanings of words are of little consequence
- 10. Which of these best define exposition in drama?
- a. the author's own general introduction to the play
- b. the author's early exposure of his dramatis personae to conflict
- c. introduction to the characters and the general problem with which the play deals
- d. the first performance of the play on stage
- 11. When the speaker in a poem cannot be identified with the poet, that speaker is called:
- a. a persona
- b. a dramatis persona
- c. a soliloquist
- d. a ventriloquist
- 12. Which of these definitions best describes a lyric?
- a. A short poem
- b. a short poem in which the poet himself is speaking
- c. a poem expressing a personal idea, feeling or mood
- d. a poem divided into stanzas

Read the following extract from a poem to answer questions 13 and 14.

Among rocks, I am the loose one, among arrows, I am tehheart among daughters,

the recluse, among sons, the one who dies young

- 13. What kind of repetition is used in the
- extract ?
- a. anaphora
- b. single word repetition
- c. line repetition
- d. phrase repetition
- 14. Apart from emphasis, what other effect

does the repetition have?

- a. makes the poem rhythmical
- b. makes the poem tedious
- c. makes the poem monotonous
- d. 'makes the poem exhilarating
- 15 The following line from poem Western wind, when will thou blow? Is an example of:
- a rhetorical question b. caesura
- c. alliteration d. nature imagery
- 16. identify the odd one out of these types of imagery
- a. visual imagery b. tactile imagery
- c. synaesthesia d. literal imagery

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17. When a poet uses mainly soft vowel sounds in a poem, the texture of the poem is: a. mellifluous b. harsh c. assonantal d. neutral 18. The sounds in the following lines may be described as an example of: The moan of doves in immemorial elms, And murmuring of innumerable bees a. Alliteration b. Euphony c. Cacophony d. A mixture of all above 19. The man dies in him who keeps silent in the face of tyranny". This statement can be described as: a. Metaphoric b. Literal c. Tragic d. a simile 20. The literary technique in which a reader taken to the past of a current action is known as: a. rewinding b. fast forward c. flashback d. repetition 21. One rhyme scheme typical of the English sonnet is a. abba abba cde dee b. abba abba cde cde c. abab cdcd efef gg d. abcd babb cde cc 22. Farce thrive on a. big events b. absurdity c. promotion Incidents d. picture of a situation is 23. A short witty statement is an a. epistle b. eulogy c. epigram d. anecdote. 24. In a narration, the first person is a. the author b. a participant c. the publisher d. an observer 25. A literary device that creates a mental a. imagery b. symbolism c. flashback d. epilogue 26. ".......... This is a Montague, our foe: A villain, that is hither come in spit To scorn at our solemnity this night, William Shakespeare: Romeo and Juliet I:

The speaker of the above except is a

a. Son of Lord Montague

V, 61 - 63".

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- b. Kinsman to the Prince
- c. Nephew to Lady Capulet
- d. Servant to Paris
- 27. In Gbemisola Adeoti's "Naked Soles", the expression "red milk of grief" means
- a. wine b. Sea c. Ink d. Blood.

ANSWER KEY

1B 2A 3D 4 B 5 D 6D 7B 8 A 9 A 10 C 11 A 12 C 13 A 14 A 15 C 16 C 17 C 18B 19 B 20 C 21C 22 D 23C 24 A 25A 26 - 27

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OBAFEMI AWOLOWO UNIVERSITY ENGLISH 2009 POST UME TEST

Question 1 - 3 are based on Williams Shakespeare's Romeo and Juliet

- 11. The multiple death in the play serve as a punishment for
- a. Impatience on the part of Romeo and Juliet;
- b. Imposing life partners on children
- c. Disobedience of the protagonists
- d. Tybalts's fiery temper
- 2. Romeo's death becomes inevitable because
- a. Eriar Lawrence's letter is not delivered
- b. Juliet is married to Paris
- c. Romeo kills Tybalt in a duel
- d. Juliet has committed suicide
- 3. Before he met Juliet, Romeo was in love with
- a. Country Paris b. Rosaline
- c. Benvolio d. Mercuito

Questions 4 — 5 are based on George orwell's Nineteen Eighty four

- 4. Winston Smith begins his rebellion against the power of the state by
- a. Educating the youth
- b. Keeping a private dairy
- c. Purchasing arms
- d. Disobeying Big Brother
- 5 In the novel, Orwell attempts to
- a. Eulogize the beauty of the socialist system
- b. Condemn the disgusting hypocrisy of all communist systems
- c. Satirize the artificiality of a machine controlled society
- d. Deride the political lockjam in Nigeria

Question 6 — 7 are based on selected poems

6. The experts, of course

Disagree

The urine test they ordered

Said, Negative

The lines above from Acqah's in the Novel of the soul depict

- a. Awareness b. Progress d.
- 7. In Kunene's A Heritage of Liberation, freedom is to be achieved through the efforts of
- a. The new generation
- b. The old generation
- c. Present generation
- d. Successive generations
- 9. This is my letter to the world

That never wrote to me

The simple news nature told

With tender majesty

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Her message is committed
To hands I cannot see
For love of her, sweet countrymen
Judge tenderly of me

To whom does 'her' inline 5 refers to

a. God b. Letter

- c. World d. Nature
- 9. Characterization in a novel means the
- a. List of character featuring in it
- b. Peculiar mannerisms of the narrator'
- c. mode of presenting the fictional individuals d. List of those that act the novel
- 10. Caricature is used to
- a. Censure an individual by emphasizing, his weakness
- b. Expose the folly in literature
- c. Ridicule a person by distorting his most prominent features
- d. Elicit the artistic potential of dramatist
- 11. The branch of knowledge that places emphasis on beaty is

Inevitability Contradiction

- a. Philosophy b. Ode to pretty
- c. Philology d. Aesthetics
- 12. As a literary form the short story is most closely related to
- a. The discourse b. The novel
- c. Story telling d. poetry
- 13. A poem written on a grand theme, in an appropriately grand style, dealing with heroic

figure is called

- a. An epigram b. An epic
- c. A soliloquy d. A heroic poem
- 14. The literary devise which uses riduicule to correct social ills is known as;
- a. Anecdote b. Saturation
- c. Hyperbole d. satire
- 15. The madman has entered our house with violence

Defiling our sacred grounds

Claiming the single truth of the universe

Bending down our priest with iron

Mazizi Kunene's Progress

The imagery of the lines above captures the idea of

- a. Coercion
- b. Truth c. Religiosity
- d. Persuasion
- 16. Behold her, single in the field Your solitary highland Lass

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Reaping and singing by herself

Step here, or gently pass

Alone she cuts and blinds the grain

And sings a melancholy strain

O lis4en! For the vale profound

Is overflowing with the sound

The rhyming scheme in the first stanza of "The solitary Reaper above is"

- a. abchddee b. ababccdd
- c. abcabcdd d. abebddef
- 17. Carreemed,

These oily tears

Dripping down the tears on your depressed

face

Will one day be staunched,

I swear

The tone of the poet is

- a. optimistic b. supplicatory
- c. symphathetic d. piteous
- 18. what distinguishes poetry from other forms of literature is its
- a. rhyme and verse b. rhythm and metaphor
- c. emotion and feeling d. irony and paradox
- 19. Assonance in poetry is the repetition of
- a. internal vowels in words
- b. consonant sounds in words
- c. final sounds at the end of a line
- d. final sounds at the beginning of a line
- 20. There kneels a jigger, a house weevil, a flea, a bedbug! He is mistletoe, a parasite that

lives on the trees of other people's lives! The speaker uses a sting of

- a. metaphors b. parables
- c. hyperboles e. riddles
- 21. As white people do you kiss her on the cheek

As you kiss her open — sore lips As white people do You suck slimy saliva From each

other's mouths As white people do Okot P' Bitek's song of Lanino The writer of the lines

above uses repetition to enhance irony

- a. to underscore disapproval b. for emphasis c. for imitation
- 22. Mother, didn't you hear me? I've brought the goat, hen and yams. Don't you want

them any more? Why do you continue to look at me like that? I haven't done anything

wrong again, have i? answer me, speak to me, mother!

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The dominant mood in this passage is one of

- a. Sadness b. Anxiety
- c. Anger d. Nonchalance
- 23. The literary device which anticipates that an event will take place is best described as
- a. Parody
- b. flashback
- c. foreshadowing
- d. rising action
- 24. The major reason for Juliet's grief is
- a. the death Of her cousin
- b. her reluctant marriage t Romeo
- c. the banishment of her lover
- d her imminent death
- 25. Then suddenly her heart was whipped up, she now rode on strange waves: alone

defying the wind and the rain, alone, fighting hunger and thirst in the desert, alone,

struggling with strange demons in that forest bringing glad tidings to her people. The

mood of the lady in this passage is one

a. simple defiance b. defeat c. triumphant e. depression

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Questions 1 - 4 are based on JC de Graft's Sons and Daughters.

1. The thematic pre - occupation of de Graft's sons and Daughters' can be summarized

ลร

- a. The import of western education
- b. The roles of women in modem economy
- c. How to become a lawyer
- d. Family life in the face of social changes
- 2. Lawyer Bonn in de Graft's Sons and Daughters' can be described as a
- a. Caring father b. Faithful husband
- c. Deceitful friend d. Shrewd politician
- 3. De Graft's sons and Dugthers is structured
- 4. The central conflict in de Grafts sons and Daughters is primarily
- a. Political b. Generational
- c. Racial d. communal

Questions 5-9 are base on Oyono's Old Man and the Medal

5. He already had five wives and was soon going to break the antelope for the sixth

time". The expression "break lungs of the antelope" means to:

- a. Be on honeymoon
- b. Offer ritual sacrifice
- c. Hunt for antelopes
- d. Have a new baby
- 6. The medal in Oyono's the old man and the Medal is compensation to Meka for the loss
- of his two sons and his:
- a. House b. Horse
- c. Land d. job
- 7. Kelara in Oyono's The Old man and the medal is:
- a. Mvodo's sister
- b. Commandants maid
- c. Meka's wife
- d. Agatha's cousin
- 8. In Oyono's the Old Man and the Medal, Ignatius Obebe is a
- a. Driver b. Soldier
- c. Carpenter d. Catechist
- 9. The medal in Oyono's The Old man and The Medal us a symbol of:
- a. colonial deceit
- h. African pride

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- c. Genuine reward for loyalty
- d. Respect and honour

Question 10 - 14 are based on selected

African poems

- 10 Dancing through blooming thorns in Gbemisola Adeoti's Naked soles connotes
- a. hoeing a field of thorns
- b. dancing in a keen competition
- c. being merry amidst suffering
- d. playing flowers and plants
- 11 In gbemisolaAdeoti's "naked soles", the expression red milk of beef refers to:
- a. wine
- b. ink c. blood d. Palm oil
- 12. In Masidi Kunene's "A Heritage of liberation". This season refers to the period of
- 13. Eagle in Kunene's A heritage of Liberation is a symbol of
- a. deceit b. peace c. agility d. death
- 14. The tone in Gbemisola Adeoti's Naked soles is that of
- a. reconciliation
- b. lamentation c. exhortation d. admiration

Questions 15 - 16 are based on Non - African Poetry

15 The attitude of the poet - persona toward bats in D. H. Lawrence's Bats is that of a.

revulsion b. veneration

- c. admiration d. indifference
- a. oppression b. c. migration d freedom resettlement
- 16. In China according to D.H. Lawrence, bats are symbols of
- a. death b. birth
- c. caution d. Joy
- 17. In Wendy Cope's Sonnet VII, poetry is regarded as a God given weapon to:
- a. Musicians b. recluses
- c. nomads d. pilgrims
- 18. The greatest challenge to the poet persona in Andrew Marvells "To his Coy

Mistress "is

- a. Chariot b. Love
- c. Time d. Youth

Questions 19- 24 are based o literary

Appreciation

- 19. The tone of the speaker in the excerpt above (Q 20) is that of
- a. agony b. joy
- c. fulfillment d. admonition.

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20. But the pigs were so clever that they could think of a way around every difficulty. As

for the horses, they know every inch of the field and in fact understood the business of

mowing and raking'. The dominant literary device in the excerpt above.

- a. repetition b. mimesis
- c. ellipsis d. personification
- 21. The dairy maids and men had flocked down from their cottages and oils of the dairy
- house with the arrival of the cows from the meads: the maids walking in patterns, nor
- on account of weather, but to keep their shoes above the mulch of the bats on $\!\!\!\!$ $\!\!\!\!$. The

setting of the above passage can be described as

- a. Urban b. Celestial
- c. Pastoral d. Religious
- 22. "O mother, my mother! ... "How could I be expected to know I was a child when I left

this house four months ago. Why didn't you tell me there was danger in men-folk?

Why didn't you want me?" The speech above achieves its literary effect through the use

of:

- a. litotes b. Onomatopoeia c. allusion
- d. repetition
- 23. The animals saw no reason to disbelieve him' especially as they could no longer

remember very clearly what conditions had been like before the rebellion. All the same,

there were days when they felt that they would sooner have had less figures and more

food' The tone of the passage above is quite: a. exhilarating b. cynical c. optimistic d. obsequious

24. We are tired of waiting for another war

Our trees their leaves have shed

The winter has come and gone

Spring flowers have blossomed and withered

In line 2 of the poem above, the poet uses:

- a. Ellipsis b. Alliteration
- c. Inversion d. Oxymoron

25. I come and go

A pilgrim

Grubbily unkempt

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Stubbornly cheerful
Defiantly whistling hope
And grubbing for crumbs of success
Out of all near defeats.
The poet personal in the poem above is:

- a. Resigned to fate
- b. A holy man
- c. A daily traveler
- d. Suffering but optimistic

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OBAFEMI AWOLOWO UNIVERSITY 2006 POST UME TEST

BIOLOGY

- 1. An amoeba moving towards a crumb of cake in a pond most likely exhibits
- (a) phototropism (b) chemotaxis (c) thermotaxis (d) nastic movement
- 2. Which of the following cells would most probably contain the greatest number of

Golgi bodies

- (a) muscle cell (b) secretor cell (c) nerve cell (d) white blood cell
- 3. A group of similar cells performing the

same function is

- (a) an enzyme (b) an organ (c) a tissue (d) an organelle
- 4. Structures founding cells are listed below:
- i) cell wall ii) cell membrane iii) chloroplast iv) cytoplasm
- v) nucleus vi) sap vacuole

Which of these structures are found in both animal cells and plant cells?

- (a) i, ii and v (b) i, iii and v
- (c) ii, iii and v (d) ii, iv and v
- 5. Which of the following is not present in the nucleus of a cell?
- (a) chromosomes (b) nucleolus
- (c) mitochondrion (d) genes
- 6. A plant which grows on another plant without apparent harm to the host plant is
- (a) a parasite (c) saprophyte
- (b) epiphyte (d) a predator
- 7. The petals of a flower are collectively called
- (a) calvx (c) carpel
- (b) capsule (d) corolla
- 8. Osmosis can be defined as diffusion of
- (a) water molecules from an area of high concentration to an area of low concentration.
- (b) water molecules from a dilute solution to a concentrated solution across a permeable membrane
- (c) water molecules from a concentrated solution to a dilute solution through a

semi-permeable membrane.

(d) water molecules from a dilute solution to a concentrated solution through a

semi-permeable membrane.

Chiorophyl H

9. The oxygen given off during the process in the above equation is derived from

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- (a) sunlight (b) water
- (c) carbon dioxide (d) atmosphere
- 10. When testing a leaf for starch, why is it first placed in boiling water?
- (a) to extract the chlorophyll
- (b) to remove colour from the leaf
- (c) to dissolve the starch
- (d) to stop chemical reactions
- 11. Each of the following is an arthropod except the
- (a) crab (b) scorpion (c) spider (d) snail
- 12. The largest phylum in the animal kingdom is
- (a) cnidaria (b) Mollusca (c) chordate
- 13. With reference to the figure above, which of

these are correct?

- a. I and II are proglottides and hooks
- b. I and III are rostellum and suckers
- c. III and IV are hooks and proglittides
- d. II and IV are hooks and rostellum
- 14. The two species of human tapeworm can be distinguished by the presence or absence of
- (a) scolex (b) hook (c) head (d) sucker
- 15. The ventricles of the mammalian heart are more muscular than the auricles because the
- (a) auricles have smaller capacity (b) ventricles are larger in size (c) ventricles

pump blood to distant organs (d) ventricles receive more blood.

16. Which of the following statement is not correct about the function of each group

of mammalian vertebrate?

- a. caudal viiebrae support the tail and provide attachment for tail muscles
- b. thoracic vertebrae articulate with the ribs
- c. lumber vertebrae provide attachment for abdominal muscles.
- d. sacral vertebrae support the skull and allow nodding and rotating of movement.
- 17. In the adult toad, gaseous exchange takes place through
- (a) Buccal, skin and spiracle
- (b) buccal cavity, bladder and lungs
- (c) buccal cavity, skin and lungs
- (d) gills, skin and buccal cavity.
- 18. The foot of the bird shown below is strong and has strong claws on its digits.

This implies that the bird

- (a) is a scavenger (b) is a bird of prev
- (c) uses the foot to supplement wing action

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- (d) uses the foot to scratch the soil
- 19. Which of the following is not a means of conservation?
- a. replacing harvested mature timber trees with their seedlings
- b. prevention of poaching
- c. controlling excessive deforestation
- d. burning of vegetation before cropping
- 20. One of the following statements is not true of viruses
- (a) they are micro-organisms (b) they are smaller than bacteria
- (c) they can be seen with an ordinary light microscope
- (d) they cause tobacco disease, polio and smallpox
- 21. The brain and the spinal cord constitute the
- (a) autonomic nervous system
- (b) sympathetic nervous system
- (c) somatic nervous system
- (d) central nervous system
- 22. Which of the following parts of the mammalian brain is involved in taking the

decision to run rather than walk?

- (a) cerebellum (b) medulla oblongata
- (c) midbrain (d) cerebrum
- 23. Which part of the ear is responsible for the maintenance of balance?
- (a) cochlea (b) tympanic membrane
- (c) Eustachian tube (d) semi-circular canals

Answer Kev

- **1.** B 6. B 11. D 16. D 21. D
- 2. B 7. D 12. D 17. D 22. D
- 3. C 8. D 13. B 18. A 23. D
- 4. D 8. B 14. B 19. D
- 5. C 10. D 15. C 20. C

EXPLANATION TO ANSWER

- 1. A directional movement in which the whole organism moves is called a TAXIS. Therefore, an amoeba will move the whole body toward a crumb cake (food) by taxis movement (B)
- 2. Golgi bodies as concerned with the production of substances by this cell. Nearly all cell secretions are glycoproteins, i.e. proteins conjugated with a carbohydrate. i.e. Golgi-body will be concentrated in the environment of secretory

cell (B)

3. Tissue is a group of cell that have similar structures and performing a particular

function e.g. bone, blood of man (C)

4. Animal cell do not have cellulose cell wall, c hioroplast and sap vacuole. The correct option

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is D.

- 5. Mitochondrion is one of the organelle in the cytoplasm and not in the nucleus (C)
- 6. Epiphyte grow on their host to get direct sunlight (B)
- 7. The collection of flower is called corrolla (D)
- 8. Osmosis the movement of any solvent molecule through a semi-permeable membrane from a region of high concentration to a region of low concentration (D) e.g. high water concentration to low water concentration.
- 9. $4H_2O + chlorophyll \rightarrow 4(OH) + 4H$)

 $4(OH) \rightarrow 2H_2O + O_2$

The oxygen produced during photosynthesis

comes from water (B)

- 10. i.e. to kill and softenthe tissue (D)
- 11. Snail is mollusca (D)
- 12. The arthropoda is the largest phylum in the animal kingdom. It is divided into the

following classes: insect, crustacea, arachinida and myriapoda (D)

- 13. I- is Rostellum, II is the Hook, III is Sucker, 1V is proglottis (B)
- 14. Taenia solium has rostellum and hooks while Taena saginata lack rostellum and

hooks (B)

15. The wall of the right ventricle are made of muscle but not quite so thick as the left

ventricle (both are thicker than auricle). The right reticule contracts, forcing blood

to close the tricuspid valve so that blood can only leave the ventricle by other

opening into the pulmonary artery (C).

- 16. Sacral is not at the head region, it is located at the inner abdomen (D)
- 17. Adult toad do not have gills, the gaseous exchange is through the skin, lung and

buccal cavity (mouth) (D)

- 18. This is for scavenger (e.g. vulture) (A)
- 19. Burning of vegetation before cropping will kill the microorganism and change the ecosystem (D)
- 20. Viruses can not be seen with ordinary light microscope, electron microscope have

to be employed (C)

- 21. Brain & spinal cord make up central nervous system (D).
- 22. Cerebrum controls all voluntary actions like learning, intelligence, thinking, imagination and memory which are aspect of intelligent behaviour (D),
- 23. The inner ear, which is fluid filled has a complicated structure. It has an upper end with the three semi-circular canal at right angles to one another, are organs of

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balance (D).

OBAFEMI AWOLOWO UNIVERSITY 2007 POST UTME TEST

BIOLOGY

- 1. Where is the energy produced in a cell?
- (a) nucleus (b) lysosomes
- (c) mitochondria (d) nucleolus
- 2. Which of the following organisms does not exist as a single free-living cell? (a)
- amoeba (b) euglena (c) clamydomonas (d) volvox
- 3. Euglena is an autotrophic organism

because it

- (a) has flagella
- (b) has plant and animal features
- (c) can manufacture its food
- (d) moves fast
- 4. In which of the following organisms does a single cell perform all functions of
- active movement, nutrition, growth, excretion and photosynthesis?
- (a) paramecium (c) euglena
- (b) amoeba (d) hydra
- 5. What is the function of contractile vacuole
- in paramecium?
- (a) produces enzymes
- (b) gets rid of excreta
- (c) stores and digests food
- (d) gets rid of excess water
- 6. The ability of organism to maintain a constant internal environment is known as
- (a) diuresis (b) endosmosis
- (c) plasmolysis (d) homeostasis
- 7. Which of the following is the medium of transportation of nutrients within unicellular organism?
- (a) lymph (b) plasma
- (c) protoplasm (d) serum
- 8. In aerobic respiration, oxidative phosphorylation takes place in (a) cytoplasm (b)
- lysosome (c) mitochondrion (d) ribosomes
- 9. Bryophytes are different from flowering

plants because they

- (a) are simple small plants
- (b) carry out alternation of generation
- (c) posses small
- (d) posses no vascular tissue
- 10. In lower plants like mosses, the structure which performs the functions of roots of

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higher plants is called

- (a) raots hairs (b) rhizoids
- (c) hyphae (d) rots
- 11. Which of the following compoents of an

ecosystem has the greatest biomass?

- (a) primary producers
- (b) primary consumers
- (c) secondary consumers
- (d) tertiary consumers
- 12. The young shoot of a plant is referred to as
- (a) radicle (c) bud
- (b) plumule (d) branch
- 13. The name of a bacterium which derives its energy form oxidizing nitrites into

nitrates is

- (a) Nitrosomonas (b) azotbacter
- (c) nitrobacter (d) Escherichia coli
- 14. Potometer is used to measure
- (a) rate of osmosis
- (b) rate of diffusion
- (c) rate of transpiration
- (d) rate of photosynthesis
- 15. Meiotic cell division ensures that
- a. many similar cells are produced
- b. chromosome number of cells is halved
- c. cells produced are doubled
- d. cells produced posses the same chromosome number
- 16. The stem of young herbaceous plants are kept upright mainly by
- (a) osmotic pressure
- (b) turgidity
- (c) transpiration pull
- (d) root pressure
- 17. Which of the following tissues is not found in the stem and root of monocotyledons?
- (a) xylem (b) cambium (c) pith (d) pericycle
- 18. Fruit enlargement can be induced by spraying young ovary with
- a. gibberellins, ethylene and abssisic acid
- b. auxin, abscisic acid and ethylene
- c. auxin, cytokinin and gibberellin
- d. auxin, kinin and gibberelin
- 19. A dry indehiscent, winged fruit formed form one carpel is known as
- (a) schizocarp (b) caryopsis (c) samara (d) nut

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20. A fruit which developes without fertilization is described as (a) simple b)

aggregate (c) multiple (d) parthenocarpic

- 21. A dwarf plant can be stimulated to grow to normal height by the application of
- (a) thyroxin (b) gibberelin (c) insulin (d) kinin
- 22. The condition known as cretinism is caused by the deficiency of (a) vitamin A (b)

insulin (c) thyroxin (d) vitamin C

- 23. The difference between viviparous and oviparous animal is
- (a) possession of yolked eggs
- (b) laying and brooding of eggs
- (c) possession of yolkless egg
- (d) laying of unfertilized egg
- 24. The following are features of the tropical rainforest except
- (a) loose and moist soil
- (b) short trees growing beneath tall trees
- (c) scanty trees with small leaves
- (d) presence of many animals

Answers Key

- 1. C 6. D 11. D 16. C 21. B
- 2. D 7. C 12. B 17. C 22. C
- 3. C 8. C 13. C 18. C 23. B
- 4. C 9. D 14. A 19. C 24. C
- 5. D 10. B 15. B 20. A

Explanation to Answers

I. The nucleus contains the nucleolus and it is responsible for reproduction i.e. it

contains the information for genetic make up. Mitochondria is usually referred to

as the power house because they contain enzymes that carry out the oxidation of

food substance and they synthesis ATP (adenosine triphosphate), the energy of the cell (C).

- 2. Some organisms are made of many similar cells which are joined or massed together and they can not be differentiated form each other. Example of such organisms which exist as colonies are VOLVOX (D).
- 3. The word antho means "Self'. Anthotrophic is the mode of nutrition for organisms that manufacture their own food and euglena has chloroplast which makes it possible for euglena to manufacture its own food (C).
- 4 Euglena is the only organism in the option that has chioroplast for photosynthesis (C).

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5 Contractive vacuole in paramecium is for osmoregulation i.e to get rid of excess

water (d)

6. Homeostasis is defined as the maintenance of a steady state in living organisms

by control of the internal environment (D).

7. The living material of the cell consists of the nucleus and cytoplasm called

protoplasm.

Unicellular organism exchange materials through the protoplasm (C).

- 8. Phosphorylation of hexose sugar is a necessary first step in the oxidative breakdown of sugar in respiration and the process of expending energy takes place in the mitochondria (C).
- 9. Bryophytes are complex, multicellular green plant that lack vascular tissue (D).
- 10. Rhizoids are the false roots in mosses (D). rhizoids grow into the soil from the

base of the stem.

11. Biomass takes into account both the size of the individual organism and their

numbers. The number of the species decreases and size increases as we move upward in the tropic level. The tertiary consumer has the greatest size (D).

- 12. Plumule is the young shoot in a plant (B) while radical is the young root.
- 13. Nitrosomonas convert ammonia to nithtes while nitrobacter convert the nitrite to

nitrates (C).

- 14. The rate of transpiration is monitored using potometer (A).
- 15. During meiosis, the chromosome number in gamates becomes half (haiploid) of

the original mother cell (diploid) (B)

16. Transpiration pull involve the force which maintain the transpiration streams.

these forces are strong. Root pressure is responsible for the conduction of water

through the root. Turgid parenchyma makes the cell. Strong and rigid, so they give mechanical support (B)

17. In the internal structure of the root, is a wide and clearly marked pith surrounded

by ring of conducting tissue while there is no pith in the internal structure of the

stem (C).

18. Auxins promotes cell elongation and stimulate cell division likewise Gibbrellin

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also promote cell division, hormone abscisic acid can make stomata close and falling off of fruits and leaf withering. Ethylene dramatically increase the respiration rate which leads to the ripening of fruit, cytokinins is found where

rapid cell division is occurring (C).

19, Samara is a simple tree fruit in which the pericarp is extended to form one or

more wing like structures. It develops from a superior ovary made-up of more than one carpel (C).

20. Occasionally, fruit formation occurs in the absence of fertilization known as

parthenocarpy, can be induced by treating unpollinated flowers with IAA (D).

- 21. Hormone Gibberellins stimulate cell division (B).
- 22. Thyroxine is responsible for controlling the basal metabolic rate and its therefore

particularly important in growth. Under secretion of it during development (hypothyroidism) causes arrested physical & mental development, a condition called cretinism (C).

23. Oviparity is when the fertilized egg can be enclosed within a protective covering

before it leaves the females body as in many invertebrates. Viviparity is when

embryo is protected and nourished within the uterus, with the placental of mammals (B).

24. The tropical rainforest vegetables is dominated by tall trees with their widespread

canopies. The plant community falls into five layers and can be identified with

three top layer of trees. The soil is most and loose rich in humus. Scanty trees

with small leaves in a feature of savannah vegetation (C).

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OBAFEMI AWOLOWO UNIVERSITY 2008 POST UME TEST ENGLISH

Read the following passage and answer the questions based on it

Why should an artist attempt to concentrate his experience of life in a unique work of art? No Final answer can be given, but two possible reasons suggest themselves. Man seems always to have preferred order to disorder. His whole progress on earth has been a struggle to this end. Everything he has done, from the creation of vast empires to the growing of small gardens, has been triumph, in greater or lesser degree, of order over chaos. To help control his own thought, the sudden surprises of his limitless mind, he has had to invent Language. As each new thing appears, whether it be an idea or an object, he gives it a name and thus brings it into line with the things he already understands. And he has invented for himself more than one kind of language. There is a language of painting, a language of architecture, or mathematics-to name but three. Each has its own special symbols, its own form of logic; and each enables him to express some of the myriad thought that crowd his mind. High among the languages of man is the language of music.

- 1. Through his struggles man has achieved
- **a.** the growth of disorder from order **b.** the transformation of order out of chaos **c.** the return of a state of utter confusion **d.** the complete destruction of vast empires
- 2. Man invent the Language because
- a. he already had control over his mind and its countless ideas
- b. it helped to organize his thought and unceasing ideas
- c. there was little he could do at the time to diversify his talents
- d. it was a method or realizing his position as a Supreme Being
- 3. By naming objects or ideas, man was able to **a.** clarify things and correlate them with facts already known **b.** allow an area of complete confusion to develop in language
- c. comprehend less and less the things around and about him
- **d.** make visual impressions for more important than ever before
- 4. The various languages can be identified by
- **a.** the endings of the various symbols and their simplified logic **b.** their use of the same marks or signs and system of logic
- **c.** their own science of reasoning and their peculiar marks or signs **d.** the manner in which their logic agrees and their symbolism is similar
- 5. The work "myriad" (line 12) as used in the context means _____

In each of the Questions 6-10, there is a gap. Complete the gaps with appropriate item

from the options A-D under each sentence.

- 6. If you try to write without having a clear idea, you often end up just _____ without saying anything very meaningful a. gambling b. rambling c. drooling d. boasting
- 7. The four of you should share the remainder you a. between b. within c. among d. around
- 8. 1 have no doubt that Enyinba will_____ Oaks next Saturday a. win b. ship c. flog d. beat
- 9. "You need not go _____ down the road before you notice a huge white building

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Forms on the road", the man said a. further b. farther c. inside d. deep 10. If your writing lacks coherence, your reader will just find something else to read or If your writing lacks coherence, your reader will just find something else to read or the television, a. tune in b. turn on c. open d. switch on Choose the appropriate option to complete the followings: 11. This picture is ascribed to Leonardo da Vinci. This means that a. Leonardo da Vinci painted it b. Leonardo da Vinci definitely painted it c. Leonardo da Vinci might have painted it d. Leonardo da Vinci did part of the painting 12. The Principal's reference to the cane _____ the boy with much mental uneasiness a. afflicted b. inflicted c. assaulted d. insulted 13. The President promised a higher allocation to the education sector in this year's budget a. did he? b. didn't he? c. doesn't he d. isn't he? 14. His three sons, Sanmi, Chukwu and Collins are eleven, nine and seven a. succeedingly b. respectedly c. respectively d. successively 15. The government's envoy has left the country again in his latest round of trouble shooting. The underlined expression means a. peace making efforts b. trouble making efforts c. trip marring efforts d. troublesome efforts 16. Hundreds of cars went us before we were given a ride to the campus a. past b. pasted c. passed d. by 17. You told me that Johnson is your trusted friend, why did you not stand up for him during his trial? a. pity b. defend c. ridicule d. disown 18. As the examination progressed, it was observed that more and more candidates stared into space. This means many candidates a. looked into the sky b. looked through the window for would-be helpers c. looked straight for long but to nothing in particular d. tried to ensure that the spaces between them were well maintained. 19. When you pronounce the word university, how many sounds could you perceive? a. 5 b. 10 c. 8 d. 4 **ANSWER KEY**

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1. B 2. B 3 A 4. C 5 B 6 B

7. C 8 A 9A 10 B 11 A I2B

13. B 14 C 15 A 16 A 17 B I8D 19 A

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BIOLOGY

- 1. One of the functions of xylem
- (a) strengthening the stem
- (b) manufacturing food
- (c) conducting manufactured food
- (d) none of the above.
- 2. People suffering form myopia
- (a) can see near objects clearly
- (b) can see far away objects clearly
- (c) cannot see any object clearly
- (d) are colour-blind
- 3. The cilia in paramecium are used for
- a) respiration (b) locomotion
- (c) protection (d) excretion
- 4. Which of these types of skeleton is most appropriate to the cockroach?
- (a) hydrostatic skeleton
- (b) exoskeleton
- (c) endoskeleton
- (d) cartilaginous skeleton
- 5. When proteins are broken down they provide
- (a) oxygen (b) carbohydrate
- (c) energy (d) amino acids
- 6. The function of lenticel is
- (a) to receive excess water in the plant
- (b) to absorb water from the atmosphere
- (c) for gaseous exchange
- (d) to absorb light
- 7. Which of the following is characteristic of the animal cell
- (a) presence of chioroplasts
- (b) possession of a cellulose cell wall
- (c) absence of large vacuoles
- (d) presence of large vacuoles
- 8. In the life history of Schistosoma (Bilharzia), of the following is the intermediate

host

- (a) man (b) snail
- (c) mosquito larva (d) fish
- 9. The hormone which tones up the muscles of a person in the time of danger is from

the

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- (a) thyroid gland (b) pancreas
- (c) adrenal gland (d) spleen
- 10. The study of the organisms and the environment of an abandoned farmland is the

ecology of

- (a) a community (b) a population
- (c) a species (d) an ecosystem
- 11. At fertilization
- a. one chromosomes from the male joins another form the female
- b. one gene from the male combines with the other from the female
- c. the male nucleus fuses with the female nucleus
- d. one set of h¥chromosome combines with another set form the female
- 12. The neck region of the tapeworm (Taenia spp.) is responsible for the
- (a) production of eggs
- (b) the storage of eggs
- (c) the formation of new segments
- (d) the development of the suckers.
- 13. The movement of molecules from a region of higher concentration to one of lower concentration is
- (a) diffusion (b) transpiration
- (c) osmosis (d) plasmolysis
- 14. The region of cell division in a root is
- (a) root cap (b) endodermis
- (c) xvlem (d) Meristem
- 15. Which of the following is not an excretory organ?
- (a) Luns (b) kidney
- (c) leaf (d) large intestine
- 16. The part of the mammalian brain responsible for maintaining balance is
- (a) medulla oblongata (b) cerebellum
- (c) optic lobe (d) cerebrum
- 17. A sugar solution was boiled with Fehling's solutions A and B and the colour

remain blue. The sugar tested was

- (a) glucose (b) maltose
- (c) fructose (d) sucrose
- 18. The blood vessel which carries digested food from the small intestine to the liver

is

- (a) renal vein (b) renal artery
- (c) hepatic artery (d) hepatic portal vein
- 19. The maize grain is regarded as a fruit and not a seed because
- (a) it is covered by a sheath of leaves

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- (b) the testa and fruit wall fuse after fertilization
- (c) it has both endosperm and cotyledon (d) the pericarp and seed coat are separate
- 20. Identical twins are produced under one of the following conditions
- a. Two ova fertilized at the same time by the sperm
- b. One ovum fertilized, divides to give two embryos
- c. Two ova fertilized by one sperm
- d. One ovum fertilized by two sperms
- 21. Which of the following hormones is produced during fright or when agitated?
- (a) insulin (b) adrenalin
- (c) thyroxine (d) pituitary
- 22. Grasses Grasshopper -Lizards Snakes
- Hawks. In the food chain, the organisms which are the least in number are
- (a) grasses (b) hawks
- (c) lizards (d) snakes
- 23. One significant difference between roots and stem is that
- a. branch root originate in the pericycle while branch stems do not.
- b. Stems are always below the ground while rots are always under the ground
- c. Stems are positively geotropic while roots are negatively geotropic
- d. Stems are sometimes used for storage while roots are never so used.
- 24. The arrangements below are steps in protein digestion. Which is the correct

sequence?

- A polypeptides, B protein, C amino acids, D peptones
- (a) $a\rightarrow b---c\rightarrow d$ (b) c-d---a-b
- (c) $b\rightarrow c\rightarrow a\rightarrow d$ (d) $b\rightarrow d\rightarrow a-c$
- 25. Partially digested food ready to leave the stomach is called
- (a) chime (b) curd
- (c) glycogen (d) paste
- 26. The particles found in the blood which play an important role in blood clotting are

called

- (a) platelets (b) red blood cells
- (c) monocytes (d) granulocytes
- 27. In a cross between a normal male and a female carrier for haemophiliac disease,

the percentage of their sons expected to suffer the disease as haemophiliac is

- (a) 25% (b) 50%
- (c) 70% (d) 45%

ANSWERS KEY

1. C 6. C 11. B 16. C 21. B 26. A . 2. A 7. C 12. C 17. A 22. B 27. B

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- 3. B 8. B 13. B 18. D 23. A
- 4. B 9. C 14. A 19. B 24. D
- 5. D 10. A 15. D 20. B 23. A

EXPLANATION TO ANSWER

- 1. Xylem contains several large thick-walled tubes called in which the soil solution
- is carried from the roots to the leaves (C).
- 2. Myopia is short-sightedness i.e. can only see near object clearly (A)
- 3. Cilia is common to protozoa like paramecium, it is used for movement (locomotion) (B).
- 4. Exoskeleton is common to arthropod like cockroach (B).
- 5. Protein is built from units of amino acid. Amino acid is the product of protein
- digestion (D).
- 6. Lenticels is the organ for gaseous exchange in the stem of plant (C).
- 7. The vacuole in animal cell is smaller when compared to that of plant cell (C).
- 8. Snail is the secondary host of bilharzias (B)
- 9. The adrenal glands near the kidneys produce neutral hormones, one of which is
- adrenalin. Adrenal glands are stimulated by the nervous system when an animal feel frightened or anxious (C).
- 10. The collection of population makes up a community. (A)
- I1. (B)
- 12. (C)
- 13. Diffusion is the movement of molecules or ions form a region of higher concentration to that of lower concentration. (A)
- 14. Tissue which are capable of cell division are called Meristem. Those responsible
- for the increase of length of roots and stems are found at the lips and are therefore
- the region of cell division which is at the apical region (i.e. tips of the roots) (A)
- 15. Large intestine is involved in digestive system (D)
- 16. The cerebellum is concerned with hearing, balance and s\mathbb{H}muscular control (C).
- 17. Test for reducing sugar (glucose)
- 18. Hepatic portal vein carries digested food form small intestine (D).
- 19. Maize is really a fruit, because the outer coat covering the grain represents the
- pericarp of the fruit fused with the testa to the seed (B).
- 20. The ovum divides after fertilization (B).
- 21. Adrenalin is produced form adrenal gland (B).
- 22. The number decreases while the size of the species increase as we move to the

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upper trophic level of the food chain (B).

23: (A)

- 24. Protein > peptone(d) > polypeptide (a) > amiftacid(c). (D).
- 25. The walls of the stomach are muscular and regular peristatic movements churn
- up the food, mixing it thoroughly with the gastric juice. By the time it is ready to

leaves the stomach, the food looks like a watery paste, called CHYME (A). 26. (A)

27. Heamophilia is an abnormality controlled by a recessive gene located on the y - $\,$

chromosome.

The percentage of the carrier is 50% (B)

OBAFEMI AWOLOWO UNIVERSITY 2009 POST UME SCREENING TEST

ENGLISH

Comprehension

Read the following passages carefully and answer the questions that follow. Passage I

The best acceptable definition of history is that it is a record of the past actions of mankind, based on surviving evidence. It is this evidence that the historian employs to chronicle and correlate events, by which he arrives at conclusions which he believes to be valid. Hence, the historian is referred to as an interpreter of the development of mankind.

It should be understood that there is more than one way of treating the past. For example, in trying to deal with the revolutions in Nigeria, past and present, the historian may describe the events in a narrative order. Or, he may choose to concentrate on analysis of the general causes, comparing their stages of evolution with the patterns of revolution in other countries.

The historian does not seek to attain the same kind of results as the scientist, who can verify his conclusions by repeating his experiment under controlled conditions. Whilst he also attempt to classify the phenomena, the historian is more likely to consider event in terms of their uniqueness.

Added to this is the fact that history is concerned, fundamentally, with the lives and actions of men, and as such, the historian's search for causes is bound to be relatively subjective, as compared to that by the scientist. In essence, however, historians are agreed and insist that history should be written as scientifically as possible and that the evidence should be analyzed with the same objective attitude employed by the scientist when he examines certain phenomena of nature.

- I. According to the passage, a historian should try to examine a material
- A. scientifically B. subjectively C. accurately D. objectively
- 2. According to the passage, one of the duties of a historian is
- A. to predict the future
- B. to analyse the past and future
- C. to explain the significance of past events
- D. to interpret the development of mankind
- 3. The scientist tends to be more reliable than historian because
- A. he works in a laboratory
- B. he is better qualified
- C. he can crosschecked his result several time
- D. he has more time to work at his
- **Experiments**
- 4. Flow can history be scientifically recorded?
- A. by examining available evidence and analyzing unusual occurrences
- B. by falsifying and fabricating available facts
- C. by speculating on what was and ought to have been

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- D. by concealing some of the evidence
- 5. History could be defined as
- A. a record of the evolution of a country
- B. a record of development of mankind
- C. a record of the present actions of mankind based on surviving evidence
- D. a record of the past action of mankind based on surviving evidence

Passage 2

From the apex of the Niger Delta southwards, dry land, overgrown with dense forests still virginal in various spots, gives way to seasonally inundated zones. Here, sweet water swamps with strands of raffia palms gradually merge into tidal swamps of brackish ooze, where mud skippers thrive under the arching roots of mangroves. The Niger, fingering through a thousand creeks, meet the sea in a dozen estuaries. Strong rives currents drifts and mud across the river mouths, scaling tern again and again to navigation.

- 6. Where do mudskippers thrive?
- A. in the creeks B. in the swamps
- C. in the mangroves D. in the roots
- 7. "Fingering through" as used in the passage means
- A. cutting across B. passing through
- C. cutting between D. passing between
- 8. According to the passage, how would you describe a seasonally inundated zone? A. a zone always covered with mud B. a zone always covered with shallow water C. a zone under water at certain times of the year D. a zone subject to heavy rain every season
- 9. Where does the Niger meet the sea? A. in the creeks B. in the Delta
- C. in the swamps D. in the forest
- 10. What is brackish ooze?
- A. a strong river current
- B. a mixture of fresh water and mud
- C. a mixture of fresh water and salt water
- D. fresh and clean water

LEXIS AND STRUCTURE

In each of the following sentences, there in one word underlined and one gap. From the list of words lettered a- e choose the word that is most nearly opposite in meaning to the word underlined and which will appropriately fill the gap in the sentence. (11-15)

11. Athletes wishing to get rid of theirand get more energy should take more exercise

A. fat B. oxygen C lethargy

- D. trainers E. espots
- 12. A metal will expand when it is heated and When it cools........
- A. shorten B. lesser C. contract
- D. congeal B curtail
- 13. The political aspirant asked the villagers to support him and not to..... his authority in any way
- A. deny B. undermine C. defy
- D. despite B attack

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14. She was a very proficient hairdresser but had little aptitude for sewing in which she was....

A. new B. unskilled

C. unlearned D. ignorant

B awkward

15. If you do not accept the offer of a job in the Secretariat within the next one week, we shall assume you....... It

A. denied B. refused

C. deprived D. left E lost

From the list of words lettered a-e below each of the sentences, choose the one which

is nearest in meaning to the underline word as it is used in the sentences (16-20)

- 16. The examiner said that the candidate's performance in the examination was not good enough
- a. failure b. achievement c. success d. presentation e. marks
- 17. After finishing the 800 meters race, he fell asleep from exhaustion a. weakness b.

fatigue c. overwork d. eagerness e. sloth

- 18. Last night there was a very fierce rain Storm
- a. raging b. storming c. angry
- d. violent e. ferocious.
- 19. After Warn, on our way to Benin, we passed through a dense forest a. crowded

b.close c. thick d. heavy e. wooded

- 20. The footballers went back to their camp sullenly
- a. cheekily b. quickly
- c. stubbornly d. resentfully
- e. silently

In each of the following questions 21-25, fill each gap with the appropriate option from the list. Following exercises express different times by using different tenses.

From the natives suggested, choose any one that best suits each context

- 21. More...... to your elbow as you campaign for press freedom a. energy b. power c. effort d. grease e. kinetic
- 22. Sir, I'm not lying about the matter, I know nothing of it, if I knew
- a. I must tell you b. I can-tell you
- c. I would tell you d. I shall tell you
- 23. The editor was not happy that the Nigeria press was hemmed
- a. up
- b. across c. in d. over e. sideway
- 24. A child that shows mature characteristics at an early age may be described as
- a. precocious c. premature b. ingenuous
- d. preconceived
- 25. That is a very terrible woman; everyday she makes a lot of noise about one thing or the other. I'm not surprised, that's what her

sisters too .a. are used to doing b. do c. always used to do d. are doing

ANSWER KEY

1. D 2. D 3C 4 A 5 D

6C 7. B 8 D 9B 10C

11 C 12C 13. B 14 B 15B

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16 B 17 B I8A 19 C 20D

21D 22 C 23 C 24A 25B

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BIOLOGY

- 1. One of these is not found in the urine
- (a) water
- (b) sodium chloride
- (c) nitrogenous compounds
- (d) calcium chloride
- (e) nitrogenous salts.
- 2. An organism with a pair of in distinguishable genes is a
- (a) heterozygote (b) hybrid
- (c) allelomorph (d) homozygote
- (e) diploid
- 3. The fruit formed from a single flower having several free carpels in called
- (a) multiple fruit (b) Simple fruit
- (c) aggregate fruit (d) dehinscent fruit
- e) indehiscent fruit.
- 4. The function of ossicles (maleus, incus and stapes) in the mammalian ear to
- a) transmit vibrations
- b) regulate pressure
- c) support of the inner ear
- d) maintain balance during motion
- e) secrete oil
- 5. "Joined skeleton" is absent in the
- a) cockroach b) spider
- c) millipede d) snail
- e) house fly
- 6. Mucor and spirogyra can be put in a because group they
- a. Are unicellular
- b. Have spores that are dispersed by wind
- c. Can live independent lives
- d. Reproduce sexually
- e. Have bodies made up of thallus and filaments alternatively.
- 7. The organ through which nourishment and oxygen diffuse into an embryo is called
- a) Amnion b) chorion
- c) umbilical cord d) oviduct
- e) placenta
- 8. A tapeworm fasten itself to the intestine of its host with
- a) Neck & sucker
- b) hooks & suckers
- c) rostellum & suckers

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- d) proglottis & neck
- e) rostellum hooks & suckers
- 9. Which of these is false about the piliferous layer of a root? It
- a) Has a thin cuticle
- b) Is the outermost layer of the corex
- c) May bear root hairs
- (d) Breaks down with age
- (f) Is replaced by cork in old roots.
- 10. Anaerobic respiration in yeast produces
- a) CO₂ & ethanol
- b) CO₂ &H₂O
- c) CO₂&O₂
- d) CO₂ & glucose
- e) Ethanol & H₂O
- 11. Which one of these set of factors is completely abiotic? (a) Turbidity, tide
- salinity, plankton (b) pressure, pH, soil insect (c) Water, soil, bacteria, salinity (d)
- pH, bamboos, wind, rainfall (e) Light, altitude, wind, humidity
- 12. In which of these are flagella and cilia found?
- (a) Flatworms (b) Protozoa
- (c) Coelenterates (d) Annelids
- (e) Nematodes
- 13. The three important organs that are situated close to the stomach are (a) Liver,
- kidney & gall bladder (b) pancreas, liver & kidney (c) Gall bladder, pancreas
- spleen (d) liver, kidney & spleen (e) kidney, gall bladder, liver
- 14. The plantain reproduces asexually by (a) Spores (b)Buds (c) Fragments (d) Suckers (e) Flowers
- 15. The major function of swim-bladder in fish is (a) Breathing (b) Swimming (c)
- Diving (d) Repelling enemy (e) Buoyancy
- 16. The part of the central nervous system concerned with answering an examination
- question is the (a) Spinal Cord (b) Cerebellum (c) Oryx (d) cerebrum (e) Medulla
- oblongata
- 17. Wind pollinated flowers usually have
- (a) long styles
- (b) sticky stigmas
- (c) small and short stigmas
- (d) rough pollen grains

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- (e) small styles and pollen.
- 18. The ridicule of a bean seedling grows most rapidly in the region
- (a) of the root tip (b) below the top soil
- (c) just around the root tip
- (d) just below the root tip
- (e) just above the root tip.
- 19. A key similarity between nervous and hormonal system is that both
- a) Involve chemical transmission
- b) Have widespread effects
- c) Shed chemicals into the blood stream
- a. Evoke rapid response
- b. Eliminate response
- 20. The bone of the neck on which the skull rests is
- (a) Odontoid (b) Axis (c) Occipital
- (d) Atlas (e) patella
- 21. A child blood group genotype different form those of both parents and with

mother of genotype 00, can only have a father of genotype

- (a) A (b) B (c) 00 (d) AB (e) AA
- 22. A true climax community a) changes from year to year b) persists until the environment changes
- c) Is the first stage in plant succession
- d) Consists of tallest trees and small animals e) Is in a state of perturbation.
- 23. In a predator food chain involving secondary and tertiary consumers, the organisms become progressively
- (a) smaller
- (b) equal in number
- (c) large and fewer along the food chain
- (d) parasitized along the food chain as consumers get bigger
- (e) sparse in distribution.
- 24. Which one of these is an adaptation to a

xerophyte environment?

- a) fleshy tissue with reduced leaves
- b) extensive surface roots and broad leaves
- c) thick barks and broad leaves
- d) rough leaves and shallow root system
- e) stunted growth and surface roots.
- 25. When it is cold, the blood vessels of the skin
- a) dilate to increase blood flow to the skin
- b) constrict to reduce the amount of blood flowing to the skin
- c) dilate to reduce the amount of blood flowing to the skin
- d) constrict to increase the amount of blood flowing to the skin

ANSWERS KEY

1. D 6. B 11. C 16. D 21. D

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- 2. D 7. E 12. B 17. C 22. B
- 3. C 8. B 13. C 18. A 23. C
- 4. A 9. A 14. D 19. D 24. A
- 5. D 10. A 15. E 20. D 25. B

EXPLANATION TO THE QUESTIONS

1. Calcium chloride is not found in urine. Urine contains sodium chloride, urea,

water in addition to other compounds (D).

2. An individual is said to be homozygous if it has two similar genes for the same

character i.e. it has two identical alleles at the same position on a pair of chromosomes e.g. TT is for tallness (D).

3. Aggregate fruits are produced form a single flower with an apocarpous pistil i.e.

several free carpels and hence a collection of simple fruit e.g cola-fruit and rose

fruit (C)

4. Three tiny bones called ossicles, fit against one another to form a chain of bones

stretching from the inside of the eardrum across the middle ear. Sound vibration

travel down the outer ear and vibrate the eardrum. This causes vibration of fluid

in the inner ear, so that the sensors cells in the cochlea receive the stimulus (A)

5. Snail do not have joined skeleton, its soft

body muscle is enclosed or housed in a shell(D)

6. They can for spores which can be blown

by wind (B)

7. The embryo develops an organ called the placenta. The placenta is firmly attached

to the wall of the uterus and through it nourishment and 0xygen are obtained by

the embryo from the mother and waste products are removed (E)

8. On top of the scolex is a projection called the rostellum, which has hooks and

four evenly spaced sucker on the outside. The tapeworm fasten itself to the intestine using hooks & sucker (B)

- 9. The outermost layer of the cortex is called piliferous layer. Unlike the epidermis
- of the stem, the piliferous layer has no cuticle (A).
- 10. Anaerobic respiration is the breaking down of complex molecules in the absence

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- of Oxygen to give carbondioxide and Ethanol (A)
- 11. Abiotic factors in ecology study are those that do not involve living things e.g
- temperature, Rainfall, Relatives humidity, light, pressure soil acidity, topograph
- are commonly called Edaphic factors c
- 12 Flagella and cilia are locomotive organs i.e. for movement, paramecium use cilia
- while eugelena use flagella, it is common to protozoa (B).
- 13 Gall bladder, pancreas & spleen are available in the stomach
- 14. Sucker is the root part of plantain & it is also used for vegetative propagation (D)
- 15. Swim bladder is used for buoyancy in fish (E)
- 16. The cerebrum controls all voluntary action like learning intelligence, thinking,
- imagination and memory which are aspect of intelligent behavior (D)
- 17 Small and short stigmas are feature of wind-pollinated flowers (C).
- 18 Apical meristems are responsible for the increase in length of roots and stem, re
- found at the tip of stem and root (A).
- 19 Nervous and hormonal system are both reflex action, it is rapid and automatic
- response to stimulus without the involvement of the brain (D).
- 20 The skull rest on the atlas bone of the cervical vertebra (D).
- 21 Since mother blood group -0 (J0J0) the child can only have a father with blood
- group AB, to have a blood group different from both parents i.e. either blood group A or B (D).
- 22 A climax community do not change form time to time, it persists until the environment change (D).
- 23 As we move upward in the food chain, the size of the organism increased and become fewer in number (C).
- 24 Xerophyte are plant adapted with desert habitat. They have flashy tissue
- reduced leaves to reduce transpiration and (water lose) and extensive roots for water. Hydrophytes are aquatic plants with broad leaves, to tap enough sunlight,
- for photosynthesis i.e. increase in rate of water loss and short roots since water is in abundance (A).
- 25 In cold, the blood vessel in the skin will get smaller (or constrict) so that very
- little blood will reach the skin surface, this reduces heat loss by radiation (B).

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L	. N	u.	ш,	w.	ш

ENGLISH		
		e the option that best completes the gap(s)
		e ofhis vehicle and other payment
_ : :	-	appreciation (c) calculation (d) appreciation
2. We shall offer a good	d job to a	to register guests in the Central Hotel (a)
waiter		
(b) watchman (c) cashie	er	
d) receptionist		
		meaning to the words in initial positions
3 Futile: (a) worthless (· · · · -	us (d) useless
4 Halt: (a) wait (b) fault		
5 Virtuous: (a) seeing (k		· · ·
6 Renowned: (a) famou		• •
7 Solitary: (a) private (b		
	ions 8 and 9, ch	oose the option opposite in meaning to the
word in		
italics		
_	en the sad news o	f her mother's accident was broken to her.
(a) excited (b) calm		
(c) uncontrollable		
(d) unreasonable		
(a) honourable (b) emb In each of questions	parrassing (c) dishort s 10 to 12, select	noble role the young man played in the matter nourable (d) extraordinary the option that best explains the information
conveyed in the sen)
		the crowd is frightening (b) the crowd is
angry (c) the crowd is o		
	•	ere is no love lost between the Principal and
	=	(b) they work independently (c) they cannot
part company (d) they		adly (le) Adams halasya da asah, (a) Adams
		adly (b) Adawo behaves decently (c) Adawo
behaves differently (d)	•	•
In questions 13 and 14,	•	
		n what that politician has just said (a) many (b)
plenty (c) lot of (d) muc	:h	
14. The candidate made	e at 1	the village square a day before the elections
(a) a sermon (b) an add		
		se the option that best completes the gap(s)
		capital only the last twenty years.
		s existing/from (d) is existing/in
		e at the terms of the contract.
(a) on (b) by (c) to (d) w		
17. He is	Kaduna	an official assignment (a) at/in (b) at/for (c)
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VNTI Global Resources Ltd. Visit www.nigerianuniversitynews.com Today to get your Post-utme Forms in! on (d) for/in In each of questions 18 and 19, choose the word or phrases which best fill(s) the 18. The buildings damaged by the rainstorm schools, hospitals and private houses (a) included (b) include (c) were included (d) was including 19. After Jerry had made the bed, he on it (a) layed (b) laid (c) lied (d) lay in each of questions 20 and 21, fill the gap(s) with the most appropriate option. 20. any problems, I shall travel to London tomorrow on a business trip (a) in spite of (b) given (c) barring (d) in case 21. 1 can's stand people prying into my private life, Ladi said agreed Agbemu (a) me either (b) me too (c) me also (d) like wise me In each of questions 22 to 25, chose the option that has the same consonant sound as the one represented by the1etter(s)-underlined 22 school: (a) cool (b) chart (c) itch (d) leech 23 pharmacy: (a) every (b) rough (c) plough (d) wave 24 Cheap: (a) machine (b) sheep (c) chip (d) chemist 25 happy: (a) our (b) eyes (c) honour (d) behind **ANSWER KEY** I. A 2.D 3 D 4C 5B 6A 7. C 8B 9A 10 11A 12A 13.D 14B I5D 16C

17C 18B 19D 20C 21 D 22A 23B 24 C 25D

OBAFEMI AWOLOWO UNIVERSITY 2010 POST UME TEST

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- 1. Which of the following is the basic unit of classification of plants and animals? (a) genus (b) species (c) phylum (d) kingdom. 2. Alternation of sexual and asexual method of reproduction is found in (a) euglena (c) blue green algae (b) ferns (d) grasses 3. _____ is not a non-seed plant (a) cycad (b) conifer (c) fern (d) none of the above 4. Which type of association is shown by a fern growing on the stem of oil palm? (a) epiphytism (b) saprophytism (c) commensalism (d) symbiosis 5. Which of the following is likely to encourage inbreeding in plants? (a) dioecious (b) predation (c) monoecious (d) hermaphrodite 6. The biological association that contributes directly to succession in a community is (a) competition (b) predation (c)parasitism (d) commensalism 7. Grasses recover quickly form bush fires in the savanna because of their (a) fibrous roots (b) succulent stems (c) perennating organs (d) rapid growth rate 8. The ability of an organism to live successfully in an environment is known (a) resistance (b) competition (c) succession (d) adaptation 9. The community of plants in which the same species occur from year to year
- a) perennial species (b) climax species
- (c) pioneer vegetation (d) annual species
- 10. _____ is an autotrophic mode of nutrition
- (a) chemosynthesis (b) saprophytism
- (c) parasitism (d) symbiosis

is the

11. Which of the following is not an organ?

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- (a) leaf (b) kidney
- (c) heart (d) bone
- 12. Mendel's first law is known as the law of
- (a) use and disuse
- (b) segregation of genes
- (c) evolution
- (d) independent assortment of genes.
- 13. An interlocking form pattern of feeding relationship is called
- (a) food chain (b) nutrition
- (c) consumer (d) food web
- 14. The group of animals described as glorified reptiles is
- (a) Pisces (b) amphibian
- (c) Ayes (d) Mammals
- 15. The anal and dorsal fins of fish are usedfor
- (a) steering (b) buoyancy
- (c) upward movement
- (d) controlling rolling movement
- (e) downward movement
- 16. The significance of mitosis includes all of the following except
- (a) genetic stability (b) growth
- (c) cell replacement (d) degeneration
- 17. Which of the following is absent in the prophase stage of meiosis?
- (a) leptonem (b) zygonem
- (c) pachynem (d) triplonema
- 18. The photosynthetic pigments include
- (a) chlorophyll and carotenoids
- (b) chloroplasts and cytochromes
- (c) melanin and heamoglobin
- (d) carotenoids and haemoglobin
- 19. Which of the following produces both hormones and enzymes?
- (a) pancreas (b) ileum
- c) gall bladder (d) kidney
- 20. Of the following, which one lacks chaetae, tentacles and antennae?
- (a) snail (b) earthworm
- (c) millipede (d) snake
- 21. Etilolation is caused by the influence of
- (a) CO₂ (b) water
- (c) mineral salt (d) HCI
- (e) light
- 22. Epigeal animation can be found in
- (a) sorghum (b) maize
- (c) millet (d) groundnut
- 23. _____ is not sex-linked.

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- (a) Stunted growth (b) river blindness
- (c) haemophillia (d) colour blindness
- 24. The pyrenoid in spirogyra
- (a) usually contains starch
- (b) is suspended cytoplasmic strands
- (c) is mainly used for respiration
- (d) excrete waste product.
- 25. Flower is to the angiosperm as ____ is to gymnosperm
- (a) pines (b) cords
- (c) cone (d) anther

ANSWER KEY

26D 6. A 11. D 16. C 21. E

27. B 7. A 12. B 17. B 22. D

28. B 8. D 13. D 19. A 23. B

29C. 9. B 14. C 19. A 24. A

30. C 10. A 15. D 20. D 25. C

EXPLANATION TO ANSWERS

1. All living things are classified into 2 major kingdoms, plant and animal kingdom $\,$

(D)

2. The prothallus of a fern is equivalent to the gametophyte generation of a moss

because it generations. That is, in their life cycle a sexual (sporophyte) generation

and sexual (gametophyte) generation alternate (B). bears the sexual organs, while

the fern plant is equivalent to the sporophyte or spore bearing generation, so we

can say plant like fern and mosses show alternation of generations. That is, in

their life cycle a sexual (sporophyte) generation and sexual (gametophyte) generation alternate (B).

3. Confer belongs to the gymnosperms family. These are plant with naked seeds, they do not bear flowers. The seeds are borne on special structures called Cones

(B)

- 4. Fern and oil-palm commensalism. The epiphyte (fern) get enough sunlight to carry out photosyntehsis by climbing on the palm oil tree. In commensalism association, one partner benefits while the other, the host is unaffected c.
- 5. Plants in which both pistillate and staminate flowers are borne on the same plant

are called Monoecius. Diecious is when pistillate and staminate are on separate

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plant. Monoecius encourage imbreeding c.

6. Competition involves the interactions among two organism of the same species or

different species in which one outgrow or survive (A)

- 7. This is because of their fibrous roots which germinate rapidly and are fire resistance (A)
- 8. Living organ-isms are found in different types of habitats. These organisms show

feature that enable them to live successfully in these environments. These may

functional, behavioural or structurally. Such factures are called adaptation (D).

- 9. This is the final community or what ecologist call the Climax of the succession
- (B)
- 10. Chemosynthesis is the synthesis of organic compounds from CO2 and H2O but the energy instead of coming form light is supplied by special method of respiration involving the oxidation of various inorganic materials such as hydrogen sulphide ammonia. Chemosynthesis is used by certain bacteria (A).
- 11. Bone is not an organ but a tissue (D)
- 12. Mendelian's first law of segregation states that contracting factors (i.e. genes are

present in pairs in non-reproductive or somatic cells so that when an organism forms a gamete the pair separate (B)

13. Numerous food chains are present in an ecosystem and these are linked together

in a food web (D).

14. (C)

15. Pectoral and pelvic fins are moved independently and are used for steering and

balancing and also for back and forward movement. (D)

16. Mitosis takes place when cells divide during growth, development and also during

asexual reproduction. Mitosis enhance generation stability but is not involved in

cell replacement (C).

17. -

18. Haemoglobin is involved in blood circulation, Melanins are for skin colouration,

cytochromes are not pigments involved in photosynthesis. The chloroplasts

contain a mixture of several pigments, the main one being chiorophylls, caretenoids and xanthophyll (A)

19. Pancreas produced insulin for sugar regulation and produce enzymes like

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pancreatic amylase, lipsin and pancreatic lipase (A).

- 20. Snake do not possess all the mentioned features (D)
- 21. Light is required for photosynthesis and chlorophyll without which photosynthesis can not take place. A seedling grown in the dark becomes etiolated. It is yellow, due to lack of chlorophyll (E).
- 22. Epigeal germintaion is defined as the type of germination in which the cotyledons

or seed leaves are carried above the soil surface. It is associate with dicotyledons

like groundnut, cowpea and melon (D).

- 23. River blindness is caused by roundworm and other filarial worms (B)
- 24. Starch grains normally accumulate around the pyrenoids when exposed to light

(A).

25. C

OBAFEMI AWOLOWO UNIVERSITY 2006 POST UME TEST

CURRENT AFFAIRS

- 1. The military coup of July 25, 1975 which topped general Yakubu Gowon from power took place when he was attending which important event?
- a. OAU Summit in Kampala
- b. UN General Assembly in New York
- c. Assembly of Heads of States of ECOWAS in Monrovia
- d. The Olympic Games
- 2. Which of the following political parties did not participate in the 1979 General Elections in Nigeria?
- a. Unity Party of Nigeria
- b. National Party of Nigeria
- c. Social Democratic Party
- 3. Alhaji Shehu Shagari was sworn in as President of the Federal republic of Nigeria in 1979 by:
- a. Justice Fatai Williams
- b. Justice Adetokunbo Ademola
- c. Justice Salihu Modibbo Alfa Belgore
- d. Justice Isa Mohammed
- 4. The British took over Nigeria through
- a. Negotiation (b) Bargaining
- c. War (d) The Sea
- 5. Which of the following courts served as the highest judicial organ for Nigeria up till 1963?
- a. Supreme court
- b. Federal Court of Appeal
- c. Appellate court
- d. The privy council
- 6. What was the primary purpose of the Sir Henry Willinks Commission of Inquiry?
- a. To approve the independence of Nigeria
- b. To allay the fears of minorities in Nigeria
- c. To amalgamate Northern and Southern Nigeria.
- d. To make Lagos a British colony
- 7. Into how many local government areas is Nigeria officially delineated?
- a. 654 (b) 650 (c) 820 (d) 774
- 8. Laws made by State government are known as
- a. Edicts (b) Bye law (c) Acts
- (d) Decrease
- 9. The centenary anniversary of the amalgamation of Northern and southern Nigeria will be celebrated in
- a. 2060 (b) 2063 (c) 2014 (d) 2007
- 10. Which of these men introduced indirect rule in Nigeria?
- a. Mungo Park
- b. Dr. Nnamdi Azikiwe

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- c. Lord Lugard
- d. Sir James Robertson
- 11. Politics is an act for
- a. Man to govern himself
- b. Man to create government
- c. States to control its destiny
- d. Man to determine others
- 12. A major issue that distinguishes pressure groups from political parties is
- a. Membership (b) objective (c) voting patterns (d) ideology
- 13. A nation consists of people with
- a. Common history
- b. Common ancestry
- c. A shared set of values
- d. A,B, and C above
- 14. A totalitarian state is based on
- a. Multi-party system
- b. Total protection of civic rights
- c. The totality of the state processes
- d. Coercion as the instrument of government
- 15. A political concept that defines the beliefs, attitudes and values of a society is called
- a. Political socialization
- b. Political culture c. Political transformation
- d. Referendum
- 16. The agent of political socialization generally regarded as the most important is Family (b) Peer group (c) school d. Churches and Mosques
- 17. A political ideology that defines a system of societal organization in which the state control the commanding heights of the economy is called (a)totalitarianism (b)communalism (c) socialism (d) communism
- 18. In which of the following countries is governmental powers most fused?
- a. Nigeria
- b. United states of America
- c. France
- d. Canada
- 19. The benefits of separation of powers include the following except
- 20. Which of the following best describes French colonial policy in Africa? (a) policy of association (b) policy of casus belli (c) policy of hostility (d) policy assimilation
- 21. The electorate is generally understood to refer to: (a) elected members of the national assembly (b) elected members of the state houses of assembly (c) candidates who can contest elections (d) those citizens qualified to vote at elections
- 22. In a parliamentary system of government, the function of the head of state and the head of government are vested in (a) the inner cabinet (b) an individual (c) two different individual s (d) the ministerial council
- 23. In a modern democracy, the ultimate source of sovereignty is the (a) legislature and executive (b) judiciary (c) ruling political party (d) people

EXPLANATION TO ANSWERS

1. OAU summit in Kampala general Gowon was in organization of African unity now was know as African union in 1975 when he was toppled at home by General

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Murtala Mohammed. (A)

- 2. SDP was created by general Babangida's regime. The other parties UPN, GNPP, and NPN participated in the 1979 elations. (C)
- 3. (B)
- 4. In actual fact, at that time there was nothing like Nigeria. In the east ,it was by war, in the North, It was by negotiation. In the west, it was party war and by bargaining. British came in through the Atlantic Ocean. (D)
- 5. The Privy Council in London was the highest judicial organ for Nigeria until when Nigeria became republic in 1963 (D)
- 6. 1954 Constitution introduced full fledges Federal Structure in Nigeria. This exposes the fear of minority. To allay this fear Henry Willink constitution had to set up in 1957. (B)
- 7. Nigeria since 1996 has been officially delineated into 774 local government area. (D)
- 8. While federal and local government law are referred to as a decree and bye law respectively the state law is referred to as edicts. (A)
- 9. The Centenary of amalgamation of Northern and Southern Nigeria will be in 2014 when it becomes 100 years. (C)
- 10. Lord Luggard introduced indirect rule in Nigeria first in Northern area until it spread to the South. (C)
- 11. Politics take place when people are selecting their representatives that will govern them. (A)
- 12. The objective of political parties is to win all election and gain control of government but the objective of pressure group is to influence the government to the benefit of her member. (B)
- 13. A nation is consist of people that combine all this elements: common history, common ancestry, language and any other shared values like Somali (D)
- 15. (C) A totalitarian state is where state is supreme totally to any other body = All other
- 16. (B) Political culture as a concept that defines the belief, attitudes and values of a society.
- 17. Family the most important agent of socialization has been immediate family for a person to learn a lot from home (A)
- 18. In socialism unlike capitalism, a state controls the commanding heights of the economy (C)
- 19. Government power is fused under presidential system of government. Although Nigeria and USA practice presidential system of government but USA practice more organized presidential system. (B)
- 20. One of the advantages of separation of power is to prevent the excessive power of any arm of government particularly the executive (A)
- 21. The French Colonial policy in Africa could best be described as assimilation which tend to change African of French in every ramification but latter change to association policy which is based on French African relation without converting African to French completely. (D)
- 22. Electorate is those citizens qualified to vote at elections (D)
- 23. The head of state can be referred to as ceremonial president while the prime minister is the head of government (C)

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24. The source of sovereignty in the democratic state are people (D)			
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OBAFEMI AWOLOWO UNIVERSITY 2007 POST UME TEST

CURRENT AFFAIRS

- 1. Democracy was first practiced in
- a. Ghana
- b. United state of America
- c. Greece (d) Britain
- 2. Which of these countries has the highest population in West Africa?
- a. Mauritius (b) Ghana (c) The Gambia (d) Nigeria
- 3. This African ruler resisted colonial rule and was later exiled by the colonial officials
- a. Alaafin of Oyo (b) Oba of Benin
- (c) King Jaja of Opopo (d) Onisanbo of Ogbooro
- 4. The following countries are settler colonies except
- a. Nigeria
- b. South Africa
- c. Angola
- d. Mozambique
- 5. Nigeria gained independence from colonial rule on
- a. October 1, 1960
- b. November, 1963
- c. May 29, 1999
- d. November 1, 1960
- 6. All but one of the following is not a symbol of political culture
- a. A national flag
- b. The government
- c. An anthem
- d. The constitution
- 7. All but one of these is not an agency of political socialization
- a. The constitution
- b. The family
- c. Peer group
- d. Schools
- 8. All but one of these is not a tactic adopted by pressure groups in the pursuit of their objectives
- a. Propaganda
- b. Lobbying
- c. Assault
- d. Boycott
- 9. The following are Angophone west African countries except
- a. Ghana
- b. Nigeria
- c. Kenya
- d. The Gambia
- 10. A Nigerian who has been the secretary of the commonwealth of nations organization is
- a. Dr. Ibrahim Gambari
- b. Professor Adebayo Adedeji
- c. Chief Jaja Nwachukwu

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- d. Chief Emeka Anyaoku
- 11. How many countries are in Africa
- a. Fifteen
- b. Fifty three
- c. Fifty
- d. Fifty five
- 12. Economic community of west African states (ECOWAS) was based on the initiative of the heads of states of these two countries
- a. Nigeria and Ghana
- b. Nigeria and Togo
- c. Senegal and Cote d'Icoire
- d. B and C above
- 13. ECOWAS treaty was signed on
- a. May 28, 1975
- b. October 1, 1960
- c. June 12, 1975
- d. None of the above
- 14. In which city was the ECOWAS treaty signed
- a. Lagos
- b. Banjul
- c. Accra
- d. Abuja
- 15. A capitalist state is based on
- a. Religion
- b. Creating job opportunities
- c. Dictatorship
- d. Free trade
- 16. In politics, power is all of the following except
- a. Capacity to affect the actions of others
- b. Ability to make people do things they otherwise will not do
- c. An object
- d. It is part of a relationship
- 17. Every political system performs the following basic function except
- a. Rule making
- b. Rule transformation
- c. Rule enforcement
- d. Rule adjudication
- 18. These are common forms of governments except
- a. Federal
- b. Unitary
- c. Plural
- d. Confederal
- 19. In a federal system
- a. The centre is weak
- b. Plurality is abnormal
- c. There is nothing like autonomous units

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- d. There is unity in diversity
- 20. The legislature performs the following functions except
- a. Determines the general direction of public policies
- b. Investigating and monitoring the activities of the officials of government
- c. Exercises power of appointment of government officials
- d. Enforcing the law
- 21. The independence constitution of 1960
- a. Introduced bicameral legislature
- b. Catered for the three regions of Nigeria
- c. Provided for emergency powers
- d. Provided for fundamental human rights
- 22. Nigeria became a republic in
- a. 1960 (b) 1961 (c) 1963 (d) 1914
- 23. The amalgamation of the northern and southern protectorates and the colony of Lagos was in
- a. 1960 (b) 1966 (c) 1914 (d) 1957
- 24. Globalization is all but one of these
- a. A renewed concept in international studies
- b. Limited to the west
- c. A process of making the world smaller
- d. An increasing integration of the world

ANSWER KEY

- 1. C 6. B 11. D 16 C 21 C
- 2. A 7. A 12. B 17 B 22 C
- 3. C 8. C 13. A 18 C 23 C
- 4. A 9. C 14 A 19 D 24 B
- 5. A 10. D 15 D 20 D

EXPLANATION TO ANSWERS

- 1. Democracy is the system of people by the and for the people, government of simple majority. Democracy was originated form the city states of Greece. It came out of works of social philosophers like Thomas Hobbes, John Lock, J.Jean. Rousseau etc. (C)
- 2. Nigeria population is over 140million according to 2006 censures. It is about $\frac{1}{2}$ of African population. Thus in population Nigeria is the most populous African country (A)
- 3. (C)
- 4. Nigeria apartheid south Africa and the Portuguese colonial ruling in the Angola and Mozambique are described as settler because they were in total control of the territories including the resources. (A)
- 5. (A) Nigeria gained her independence from British colonial masters in October 1, 1960
- 6. (B)
- 7. Agency of political socializing ranges from the family, school, peer group, interest groups, media, political party etc (A)
- 8. The tactics adapted by the pressure group includes these: boycott, lobbying, propaganda, sponsor candidates in election etc apart from open assault. (C)

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- 9. Anglophone west African countries are countries colonized by British Colonial Master in West Africa. They are just four: Nigeria, Ghana, Gambia, Sierra Leone, Kenya is in East Africa (C)
- 10. Chief Anyaoku was the secretary of the common wealth of nations organization to till 2007.
- 11. Africa countries are fifty five, although many states are still striving for independence uptill now. (D)
- 12. ECOWAS was the offshoot of the thought of Nazingbe Eyadema and General Yakubu Gowon in 1975 and up till now both countries remain the most prominent in decision making in the organization. (B)
- 13. This treaty was signed at Lagos. (A)
- 14. Lagos ECOWAS treaty was signed in Lagos, Nigeria in 1975 (A)
- 15. Capitalism economy system in which a country's trade and industry are controlled by private owners for profit rather than by the state. (D)
- 16. An object power is ability to make a person behave in the way you want. It calls for both persuasion and reward. Power is a part of relationship and it central theme in politics ©
- 17. Rule transformation every political system performs the function of rule making, adjudication and execution (B)
- 18. Plural the forms of government includes, Federal Unitary and Confederal system Plural is not part of them (C)
- 19. There is unity in diversity federal system of government brings together diverse people with different ethnicity. Unlike unitary system (D)
- 20. Enforcement of law. The legislature has primary functions which is rule making and other oversight functions but enforcing law falls within the jurisdiction of judiciary (D)
- 21. (C)
- 22. The essential element of 1963 constitution is that Nigeria became republic. This made Nigeria to be in full charge of their affairs (C)
- 23. Nigeria was amalgamated in 1914 by Lord Luggard . (c)
- 24. The key word by one of these means except one of these globalization has reduced world into global village. This is possible through explosion in information technology which integrates the world. (B)

OBAFEMI AWOLOWO UNIVERSITY 2008 POST UME TEST

CURRENT AFFAIRS

- 1. Nigeria became a republic on
- b. May 29, 1999 (b) October 1, 1960
- c. January 1, 1966 (d) October, 1963
- 2. Which of the following is not one of the functions of the modern legislature?
- a. Making laws
- b. Collecting taxes
- c. Ratification of treaties
- d. Performing oversight functions
- 3. The French colonial policy of Assimilation was intended to
- a. To transfer technology to Africa
- b. To make Frenchmen out of Africans
- c. To produce well educated Africans
- d. To prepare Africans for the Olympic games
- 4. One of these is not a characteristic of the state
- a. Selection of political leaders
- b. A written constitution
- c. Monopoly of the legitimate use of armed force
- d. Sovereignty
- 5. The economic community of west African states was established in
- a. May 1975 (b) May 1963
- (c) May 1966 (d) May 1996
- 6. The European union (EU) is an
- a. Economic organization
- b. Association of former British colonies
- c. Organization of European states
- d. Union of European organization
- 7. What was the name of the highest ruling body during General Babangida's rule?
- a. The presidency
- b. Armed forces ruling council
- c. The National council of states
- d. The federal executive council
- 8. One of the following is not a specialized agency of the united nations organization
- a. Security council
- b. International labour organization
- c. World health Organization
- d. UNESCO
- 9. Under which of the following conditions can a Nigeria be deprived of his or her citizenship?
- a. If married to a foreign national
- b. b. If one holds a dual citizenship
- c. c. If convicted of Armed robbery
- d. d. If one buses the National flag

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- 10. The government of one of the following countries operates an unwritten constitution
- a. The United states
- b. The Union of Soviet Socialist Republics
- c. Post apartheid South Africa
- d. The United Kingdom
- 11. The oldest written constitution is
- a. American Constitution
- b. British Constitution
- c. German Constitution
- d. Roman constitution
- 12. The first indigenous Governor General of Nigeria is
- a. Donald Cameron
- b. Sir Ames Robertson
- c. Sir Adesoji Aderemi (the Oni of Ife)
- d. Rt. Hon. Nnamdi Azikwe
- 13. The Action Group crisis was in which year?
- a. 1966 b. 1962 c. 1963 d. 1965
- 14. Free education was introduced in west region by which of these premiers? Chief (a)

Obafemi Awolowo

- b. Chief S.L. Akintola
- c. Chief Micheal Adekunle Ajasin
- d. Chief Bola ge
- 15. What does NEC stand for?
- a. Independent National Election Committee
- b. Independent Newspapers Executive Committee
- c. Independent National Export Council
- d. Independent national Electoral

Commission

- 16. The EFCC was established to
- a. Arrest and try corrupt politicians
- b. Combat economic and financial crimes in Nigeria
- c. Arrest, detain and prosecute corrupt state governors and legislators
- d. Assist the World Bank in monitoring economic projects in Nigeria
- 17. The four British colonial territories in West Africa were
- a. Senegal, Ghana, Sierra Leone and Nigeria
- b. Nigeria, Ghana, Togo and Gambia
- c. Nigeria, Ghana, Sierra Leone and Gambia
- d. Gambia, Guinea, Ghana and Gabon

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- 18. In many countries, citizenship can be acquired through the following processes except
- a. Nationalization b. Naturalization
- c. Registration d. Birth
- 19. Which of the following does not describe
- a party system?
- a. One dominant party system
- b. Two party system
- c. Three party system
- d. Multi party system
- 20. Which of the following is not a feature of Nigeria's electoral system?
- a. Direct election
- b. Proportional representation
- c. General election d. Secret ballot
- 21. Laws made by local government are called
- a. Acts of Parliament
- b. Local Government Acts
- c. Bye-Laws
- d. Local Government Decrees
- 22. In the pre colonial era, which of the following was not a feature of the emirate

administration?

- a. Madawakin b. Waziri
- c. Sarkin Dogari d. Sarkin Emir
- 23. Federalism was introduced in Nigeria by the
- a. Lyttleton Constitution
- b. Clifford Constitution
- c. Macpherson Constitution
- d. 1999 Constitution
- 24. ECOMOG was set up primarily to
- a. Drive away the European from West Africa
- b. Serve as a Peace keeping Force for

ECOWAS

- c. Help Nigeria to control Africa
- d. Promote rapid economic development among ECO WAS members
- 25. _____The principles that have guided Nigeria's foreign policy since independence include the following except
- a. Peaceful coexistence
- b. Legal equality of states
- c. Political dependence
- d. Non alignment

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- 26. The body charged with the trial of persons accused of crimes against humanity is
- a. Criminal Court of Justice
- b. International Criminal Court
- c. International Court of Justice
- d. ICPC
- 27. The independence of the Judiciary can be enhanced by the following except
- a. When judges hold office for a fixed term
- b. When judges cannot be removed from office even when they commit crimes
- c. Appointment of judges by an independent body
- d. Political neutrality of judges

ANSWER KEY

1. D 8. A 15. D 22. D 2. B 9. B

16. B 23. A 3. B 10. D 17. C 24. B

4. B 11. A 18. A 25. C 5. A 12. D

19. C 26. B 6. C 14. A 21. C 27. B

7. B

EXPLANATION TO THE ANSWERS

- 1. (October 1 1963) this is the year Nigeria took charge of their affair fully (D)
- 2. (Collecting tax) Legislative makes law and perform other oversight functions but

minister which is executive arms collect tax (B)

3. (Making French men out of Africans is what assimilation policy of French

tended toward until it was changed to Policy of association) (B)

4. (A written constitution) state must have government, sovereignty etc and must have

(B)

- 5. (ECOWAS) was established by Gen Yakubu Gowon and Nazingbe Eyadema in May 1975. (A)
- 6. (EU) is organization of European states

(C)

- 7. (B) (Armed Forces ruling Council became highest ruling body during General Babangida's rule)
- 8. Security council is one of the main organs but not specialized agency of $\ensuremath{\mathsf{UNO}}$ (A)
- 9. If one holds a dual citizenship (B)
- 10. The United Kingdom operates unwritten constitution (D)
- 11. The oldest written constitution is that of America. It was dated back to 1779 (A)
- 12. Hon. Nnamdi Azikwe became the Governor General in 1960 representing the Queen

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- in Nigeria until 1963. (D)
- 13. The Action Group crisis took place in 1962 in the Western Region. (B)
- 14. Chief Obafemi Awolowo, then Premier of Western Region introduced free education
- in the region (A)
- 15. INEC = Independent National Electoral Commission (D)
- 16. EFCC was established to combat Economic and Financial Crimes in Nigeria (B)
- 17. Nigeria, Ghana, Sierria Leone and Gambia are the first British colonial territories in

West Africa. (C)

- 18. Citizenship can acquired by birth, registration but not by naturalization (A)
- 19. We can have a party, two parties and multi party system but not three party system

(C)

- 20. Proportional representation is not a function of Nigeria's electoral system (B)
- 21. (C) Laws made by Local Government are called Bye Law; the state is edict while

federal is called decree

22. There was nothing like Sarkin Emir but we have Emir, Sarkin Fada, Dogari Waziri

etc.

(D)

23. Lyttleton Constitution of 1954 introduced full fledge federalism system in Nigeria.

(A)

- 24. ECOMOG was set up primarily to serve peace keeping operations for ECOWAS. (B)
- 25. Political dependence is not of the principles that guided Nigeria's Foreign policy

since independence. (C)

26. International Criminal Court is a body charged with the trial of Persons accused of

crimes against humanity in this world. (B)

27. Independence of judiciary can be enhanced by being politically neutral, have a fixed

term of office and appointed by an independent body. (B)

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CURRENT AFFAIRS

1. Traditional rulers were restricted to ceremonial rules by the local government reforms

of

- a. 1966 b. 1976 c. 1984 d. 1987
- 2. A parliamentary system, who ensures that members are in the house to vote on major

issues

- a. Party leaders
- b. Speaker of the House
- c. Clerk of the House
- d. Whip
- 3. A system in which no single person serves as the chief executive is known as a.

Republican b. Revolutionary

- c. Collegial d. Parliamentary
- 4. A social system in which power is derived from control over land is called
- a. Oligarchy b. Feudalism
- c. Socialism d. Welfarism
- 5. "Rule of Law" refers to situation in which
- a. Lawyers are the rulers
- b. Laws are supreme
- c. The judiciary is independent
- d. Parliament makes laws
- 6. An important principle of the civil service is
- a. Authoritarianism b. Anonymity
- c. Nepotism d. Partisanship
- 7. Which of these constitution recognized local government as the third tier of

government

- a. The 1946 Constitution
- b. The 1960 constitution
- c. The 1963 constitution
- d. the 1979 constitution
- 8. A condition for judicial independence is the appointment of judges by the
- a. Civil service commission
- b. Judicial service Commission
- c. Low Review Commission
- d. The 1979 constitution
- 9. The minorities Commission appointed in Nigeria in 1957 recommend that
- a. More states should be created in the federation
- b. No more states should created before independence

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- c. Nigeria should revert to a unitary structure
- d. the legislature should Legislate for the minority areas
- e the minorities should constitute one state 10. The second military coup deta't in Nigeria

took place on

- a January 15, 1966 b. October 1, 1966
- c. July 29, 1966 d. July 29, 1975
- e. February 13, 1976
- 11. One of these was in existence before the outbreak of the second world war
- a. The OAU b. The League of Nations
- c. The UNO
- d. The Commonwealth of Nations
- e. ECOWAS
- 12. An important advantage of creating more constitution in a federal state is to
- a. Enhance the People's participation
- b. Enable ambitious Politicians gain political power
- c. Make the states gain more power from the federal government
- d. Curb the excess of the federal government
- 13. Under the Presidential system
- a. The party with the majority of seat forms the Executive
- b. There is the principle of collective responsibility
- c. The president may come from any of the parties
- d. The states take instruction from the federal government
- 14. Public opinion is important because it
- a. Tells government what action it must take
- b. Lets government know what the people want
- c. Allows Police to manage crisis
- d. Mothers the minorities in resource lean areas
- e. Guarantees people's freedom and rights
- 15. Bicameral legislature exists
- a. Where two cameras are used to monitor court proceedings
- b. To prevent the concentration of power on legislative house
- c. To provide jobs for more politicians
- d. To ensure that just laws are passed
- 16. Africans were first elected to the legislative council in British West Africa in
- a. Ghana b. Sierra Leone
- c. The Gambia d. Nigeria
- 17. One of the functions of the Ministry of external affairs is the
- a. Deportation of illegal aliens
- b. Issuance of Passports
- c. Defence of the Country's Borders

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- d. Promotion of national interests
- 18. The leader of the Northern People's congress was
- a. Yakubu Maitama Sule
- b. AbubakarTafawa Balewa
- c. Aminu Kano
- d. Ahmadu Bello
- 19. The idea of democracy started with the
- a. Romans b. Pensions d. Egyptians
- 20. In the Marxist theory, those who live by selling their labour are called
- a. Bourgeoisie b. Proletariats c. Feudal lords d. Slaves
- 21. Which of the following is NOT an acceptable means of achieving democracy?
- a. Referendum b. Recall
- c. Initiative d. Riots
- 22 The branch of government responsible for implementing laws is the
- a. Executives b. Legislature d. Police
- 23. In a democracy, sovereignty is vested in a. The community b. Public officials
- c. Judges d. The head of State e. The Legislature
- 24. Universal Adult Suffrage means all
- a. Adult citizens can vote
- b. Citizens vote
- c. Qualified citizens can vote
- d. Literate citizens can vote
- e. Adult males can vote
- 25. A bill that applies to the whole population and is intended to promote the general

welfare is called

- a. A private bill
- b. A decree
- c. An Appropriation bill
- d. A public deal
- e. An edict

ANSWER KEY

- 1. B 6. B 11. B 16. A 21D
- 2. D 7. D 12. A 17. D 22. A
- 3. D 8. B 13. C 18. D 23. A
- 4. B 9. A 14. B 19. C 24. C
- 5. B 10. C 15. B 20. B 25C

EXPLANATION TO ANSWER

1. (B) 1976 - Local government reforms change the multiple system of local government to a single tier all purpose local government and the traditional rulers were

restricted to ceremonial rules

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2. (D) The chief whip sees to the activities of the parliament, he monitors any voting

activity within the house

3. (D) Parliamentary system of government is that in which the head of state is distinct

from the head of government. Both offices and functions attached to two individuals

4. (B) Feudalism can be expressed as the identification of landed property with

sovereignty, sovereignty over a parcel of land which becomes a private hereditary

possession and asset to the family.

5. (B) The rule of law can be expressed as the supremacy of law over everybody in a

political system.

6. (B) Civil servants are non-partisan and are anonymous and loyal to each government

of day. A civil servant is not expected to address press unless allowed to do so by the

minister.

7. (B) 1979 constitution made provision for a democratically truly elected

government councils. It also listed the functions of the council.

8. (B) Judicial service Commission is a body that sees to the appointment, remuneration,

promotion and discipline of judiciary.

9. (A) Henry Willink's Commission, the minority commission of 1957 was a commission

of inquiry that look into the fears of the minority in the country and one of its recommendations was the creation of more states.

10. This is the coup that eliminated the former head of state, Gen. Aguyi Ironsi. The coup

was executed in Ibadan and enthroned Gen. Yakubu Gowon on the 29th of July, 1966.

- 11. (B) The league of Nations was formed in 1919, after the first World War of 1914, after UNO was established. The League of Nations was established to stop the outbreak of another war but it could not serve this purpose.
- 12. (A) People are encouraged to take part in politics, as we have in house of Representatives in Nigeria which is based on the population of the state and the essence is to enhance people's participation in government.
- 13. (C) In federal system, instruction is taken from constitution and any political party can produce president under Presidential System.
- 14. (B) Public opinion may be defined as the belief, values and attitudes, which are commonly held and expressed by the minority of the people on a given public issue.

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Public opinion helps the government to know the feeling of the people concerning its

policies and activities.

15. (B) Bicameral legislature is act of carrying out legislative functions by two chambers

in a country. They are lower chamber and upper chamber. This prevent the concentration

of power on a single legislative arm.

16. (A) In 1920, the national congress of

British West-Africa (NCBWA) was formed in Accra, Gold Coast (Ghana). Joseph Lesey

and Dr. Akinwande Savage of Nigeria were instrumental to its formation.

17. (D) Ministry of External Affairs champion the foreign policy of Nigeria. Foreign

policy refers to the decision and actively taken by a state to pursue her interests within the

global system.

18. (D) Ahmadu Bello was the founder and leader of Northern Peoples Congress. He

consolidated the party in the northern part of Nigeria. He was assassinated in January 1 5,

1966. He was the Sardauna of Sokoto and Premier of Northern Region.

- 19. (C) Democracy originated form Greece.
- 20. (B) Bourgeoise are the ones that pay for the services. The proletarians are the people

that labour to earn their means in the capitalist society.

21. (D) Riot is a situation in which a group of people behave in a violent way in public

place, often as a protest, this do not promote democracy.

22. (A) Legislators make law, the executive implement it, the judiciary interpret while the

police enforce.

23. (A) In democracy, sovereignty is rested on the people (community). In sovereignty,

the power is rested on the hand of the people.

24. (C) Universal Adult Suffrage means not all citizens can vote like in Nigeria, people

above 1 8 years of age are allowed to vote.

25. (C) Appropriation bill is the act of giving a sum of money to be used for a particular

purpose. For example, passage of Budget at the National Assembly.

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OBAFEMI AWOLOWO UNIVERSITY 2010 POST UME TEST

CURRENT AFFAIRS

- 1. The Authur Richards constitution was designed to last for;
- a. Nine years b. Five years
- c. Twelve years d. Six years
- 2. Under the 1963 Republican Constitution, the President exercised:
- a. Judicial powers b. Executive powers c. Norminal powers d. Concurrent powers
- 3. The Clifford constitution was notable for
- a. Amalgamating the Northern and Southern provinces
- b. Introducing indirect rule
- c. Establishing the legislative council
- d. Creating a Northern majority in the legislative council
- 4. In a federal constitution, legislative powers that are shared by two levels of

government are referred to as

- a. Exclusive b. Extra-ordinary
- c. Residual d. Concurrent
- 5. During the period of 1960-1966, Nigeria

was governed under the:

- a. Presidential system of government
- b. Westminster system of government
- c. Confederal system of government
- d. Unitary system of government
- 6. Which of the following in the Sokoto

Caliphate performed functions similar to

that of the Bashorun in Oyo kingdom?

- a. Waziri b. Galadima
- c. Ma'aji d. Alkali
- 7. In the Igbo political system, the most senior member of the council of elders is the
- a. Okpara b. Obi c. Eze d. Ofo
- 8. A non-monarchical state can best be described as a:
- a. Republic b. Confederation
- c. Nation d. Federation
- 9. Proportional representation favours
- a. Multi-party system
- b. Three-party system
- c. Two-party system
- d. One-party system
- 10. One major factor that differentiates the presidential from the parliamentary system is:

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- a. Separation of powers
- b. Judicial independence
- c. Passage of bills
- d. Party system
- 11. A state with a hegemonic party is one in which:
- a. There is one dominant party
- b. There is no opposition party
- c. There is only one party
- d. Other parties are officially recognized.
- 12. In the First Republic, politics in Northern Nigeria was dominated by
- a. NEPU b. UMBC c. NCNC d. NPC
- 13. The creation of classless society is the ultimate aim of
- a. Communism b. Socialism
- c. Fascism d. capitalism
- 14. Herbert Macaulay was the first President of
- a. NCNC b. AG c. UMBC d. NEPU
- 15. A special election organized to decide on
- a political issue is known as
- a. Plebiscite b. By election
- c. General election
- d. Primary election
- 16. Equality before the law is a component of
- a. Separation of powers
- b. Checks and balances
- c. The rule of law d. Constitutional law
- 17. In the process of implementing laws, the executive sometimes performrs
- a. Judicial functions
- b. Bureaucratic function
- c. Oversight function
- d. Legislative function
- 18. Which of these was the main organ of the defunct OAU?
- a. The Liberation Committee
- b. The Council of Ministers
- c. The Commission for Mediation,

Conciliation and Arbitration

d. The Assembly of Heads of State and

Government

19. Nigeria hosts of the Commonwealth

Conference which eventually led to the

Independence of

- a. Mozambique b. Namibia
- c. Zimbabwe d. Malawi
- 20. Multilateralism in Nigeria's foreign policy entails

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- a. Africa being the centre piece of Nigeria's foreign policy
- b. Non-aligned posture in international affairs
- c. Quest for a permanent membership of the UN security council
- d. Membership of international organization
- 21. The ancient Greeks practiced
- a. Direct democracy
- b. Representative democracy
- c. Liberal democracy
- d. Benevolent dictatorships
- 22. Fascism originated from:
- a. Greece b. Italy
- c. China d. Germany
- 23. According to Karl Marx, the mode of production that precede Capitalism is
- a. Mercantilism b. Feudalism
- c. Socialism d. Communalism
- 24. One of the destructive features of a democracy is that it
- a. connotes civil rule
- b. facilitates popular participation
- c. Provides for a unicameral legislature
- d. Is not associated with one party state
- 25. Serfs are the dominated class under:
- e. Capitalism b. Socialism
- c. Fascism d. feudalism

ANSWER KEY

- 1. A 6. A 11. A 16. C 21. A
- 2. C 7. D 12. D 17. C 22. B
- 3. C 8. A 13. A 18. D 23. B
- 4. D 9. A 14. A 19- 24. B
- 5. A 10. A 15. A 20. D 25. D

EXPLANATION TO ANSWERS

1. (A) Arthur Richards Constitution of 1946 was designed to last for nine (9) years but

lasted for five(5) years and ended in 1951.

- 2. (C) Nominal power, is just ceremonial power under parliamentary system of government. There is also fusion of power.
- 3. (C) Clifford constitution was made in 1952. The major reason was the creation of

legislative council and led to the creation of political parties in Nigeria. Herbert Macaulay

was the first person to establish political party in Nigeria.

4. (D) In federal constitution, concurrent legislative power is shared between the state and

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federal (control) government, as we have in education, resources, industrial development,

roads, insurance, security (police) and also sharing of money. In residual, state

government are allowed to make law as we have in establishment of traditional council

- 5. (A) Westminster is the same as parliamentary.
- 6. (A) The administration of Oyo empire involved the Alafin, assisted by the Aremo, the

Bashorun, Oyomesi and others. The Bashorun (Prime Minister) and Oyomesi played

very key role in the administration while Waziri was a very senior adviser and administrator. He was the prime minister in Sokoto Caliphate, Galadima was in charge of

the capital, Maazi was in charge of treasury.

- 7. (D) Ofo title holder made the council of elders. Each family head held the Ofo title and
- all of them put together formed the Council of Elders
- 8. (A) A non-monarchical system is republican. Republican system is where everybody is

equal and have equal right to vote for their leaders. In monarchical, the king are from

selected family.

- 9. (A) Multi-party system
- 10. (A) In parliamentary system, some members of legislature are also members of

executive but under presidential system, there is total separation of power.

11. (A) Hegemonic party, as in USA where Republican and Democrats are dominant in

Nigeria, PDP is the dominant party.

12. (D) In Nigeria, First Republic (1963-1966) NPC, NCNC and AG were the prominent political parties that contested elections. Northern Nigeria, was dominated by

NPC. The AG in southwest and NCNC in South East.

- 13. (A) Karl Marx called communism classless society, where everybody will be equal.
- 14. (A) Herbert Macaulay was the founder and first president of National Citizen of

Nigeria and Cameroun (NCNC) and later quit while Nnamdi Azikiwe took over.

15. (A) Plebiscite is also a 'yes or no" vote of the people especially when issues of

national importance referred to them. It can also be in some relevant public or political

question like the issues of minorities in a political set up.

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16. (C) The rule of law is defined as the supremacy of law over everybody in a political

system. Rule of law is seen as a provision made by the constitution with emphasis on

supremacy of the law, equality before the law and the presence or inclusion of the

principle of individual rights.

17. (C) In the process of implementing laws, the executive sometimes perform a lot of

functions like legislative function and can be called oversight function (C)

18. OAU was founded on May 25, 1963 at Addis-Ababa, Ethopia. Thirty (30)

independent African state attended the inaugural meeting. The assembly of state and

government is the highest and most powerful of all the organs of the organization. (D)

19. -

20. (D) Multi-lateralism is the policy of trying to make multiple agreement, that is

multiple agreement with many countries.

21 (A) Democracy (direct) was defined as the government of the people, for the people

and the population was still small. Now we have indirect democracy, where we

representation government or government of the majority.

22. (B) Fascism is a form of government headed by a dictator, in which government has a

total control over all activities in the state and people are denied personal liberties as it

originated form Italy under Benito Mussolin.

23. (B) According to Karl Marx, mode of production started form communalism, next is

socialism and finally to communism.

24. (B) Democracy is a form of government in which the people exercise their governing

power either directly or through representation, periodically elected by them.

informs us that democracy provides institution for expression and supremacy of people.

25. (D) The Serf (tenants) pay their landlords annual tribute in money or kind. They are

the owner of labour in the feudalism system.

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OBAFEMI AWOLOWO UNIVERSITY 2006 POST- UME TEST

ECONOMICS

- 1. The only essential attribute of a good currency isa) Scarcity b) Homogeneity
- (c) Acceptability d) Cognizability
- 2. What happens to a supply curve when the variables (s) that are normally held constant

are allowed to change?

- a. the curve flattens out
- b. there is a movement along the curve c. the curve shifts d. the curve becomes steeper
- 3. If the price of Pepsi decreases relative to the price of the coke and 7-up the demand for
- (a) Coke will decrease
- (b) 7-up will decrease
- (c) Coke and 7-up will increase
- (d) Coke and 7-up will decrease
- 4. Suppose wages paid by firm increase what would reasonably be expected to happen to

the equilibrium price and equilibrium quantity for the firm's output?

- (a) Price increases; quantity decreases
- (b) Price decreases, quantity decreases
- (c) Price decrease, quantity increases
- (d) Price increases, quantity increases
- 5. The multiplier is always the reciprocal of a) MPC b) MPS c) APC d) APS
- 6. If the marginal Propensity to save is 0.4 and consumption expenditure changes by $\ensuremath{\mathrm{N}}10$

million, the equilibrium level of income will change by

- a) N 15.0 million b) N 4.0million
- c) N 2.5 million d) N 25 million
- 7. Economic freedom is brought about by the existence of a) Government
- b) Money c) Availability of credit
- d) Choice
- 8. Which of the following is the best general definition of study of economics?
- a) The best way to invest in the st6ock market b) Business decision making under foreign
- competition c) Individual and social choice d) Inflation and unemployment in a growing economy
- 9. What implication does resources scarcity have for the satisfaction of wants?

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- a) Not all wants can be satisfied
- b) We will never be faced with the need to make choices
- c) We must develop ways to decrease our individual wants d) The discovery of new

resources

- 10. In economics, rational decision -making requires that: a) One's choices be arrived
- at logically and without error b) One's choices be consistent with one's goal c) One's

choices never vary

- d) One make choices that do not involve trade offs
- 11. A deficit budget is usually drawn up during
- a) Economic buoyancy
- b) inflationary period (c) war time
- d) economic recession
- 12. A drawer of a Cheque is the
- (a) Person who is to paid b) bank on which the Cheque is drawn c) person who write
- out the Cheque d) bank officials who certifies the payment
- 13. The liability of a sole trader is
- a) Indeterminate b) Unlimited c) limited d) Transferable
- 14. Which of the following is regarded as fixed cost?
- a) Cost of raw materials
- b) labour wages c) rent on land d) cost of light
- 15. Which of the following is not a member of OPEC? a) Indonesia
- b) Iran c) Venezuela d) Egypt
- 16. The creation of utility can be referred to as
- a) value added b) profit marginalization
- c) production d) entrepreneurship
- 17. The production within the domestic territory of
- a country is called the
- a) Net national product
- b) Gross domestic product
- c) Disposable income
- d) Gross national product
- 18. Suppose a consumer's income increases from N30, 000 to N36, 000. As a result, the

consumer increases her purchases of compact discs (CDS) from 25 CDS to 30CDS. What is consumer's income elasticity of demand for CDS?

- a) 0.5 b) 1.0 c) 1.0 d) 1.5
- 19. When a nation's exports are greater than its import
- a) the net foreign trade is zero
- b) an unfavorable balance of payments exists
- c) a favorable balance of trade exist
- d) a favorable balance of payment exists

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- 20. Inflation is likely to benefit
- a) Persons with bank savings
- b) persons who live on fixed pension funds
- c) creditors d) debtors
- 21. For which market model is there a very large number of firms'?
- a) Monopolistic market competition
- b. Oligopoly c. pure monopoly
- d. pure competition
- 22. Which of the following is an economic cost?
- a. uninsurable risk
- b. normal profit c. economic profit
- d. monopoly profit
- 23. Which tends to be a progressive tax in Nigeria? A. Income tax b. property tax c. sales

tax d. import tax

ANSWER KEY

- 1. C 6. C 11. D 16. C 21. A
- 2. C 7. B 12. A 17. B 22. A 3. D
- 8. C 13 B 18 C 23. A 4. 9. A
- 14. C 19. C 15. A 20. D

EXPLANATION TO ANSWERS

- $1\ \mbox{A good money must}$ be generally accepted as a means of exchange. (C) 2.
- A change in fixed factors leads to a change in intercept from Q_0 to Q_0 and consequently a
- shift in curve (C)
- 3 They are all substitute goods. If the price one substitute goods decrease, the demand for
- other substitute goods will decrease. (D)
- 4 An increase in wage paid will lead to increase in cost of production which invariable
- leads to shift in supply curve to left. Therefore, the price will increase and as a result of
- that the quantity demanded will fall.
- 5. 1 = 1
- 1- mpc mps,
- Therefore the multiplier is reciprocal of mps. (B)
- 6. 1 x N10m
- MPs
- $1 \times 10 = N2.5m$ (C)
- 0.4
- 7 It is through money that an effective choice can be made. (C)

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8 Economics is studied in order to educate the individual and country at large on how to make choice base on existence of scarcity of resources to satisfy human wants. (C) 9 It means that not all wants can be satisfied, that is why an economist needs choice of the wants to be satisfied. (A) 10 Rational decision making in economics means that choices must be made base wants to be satisfied. (B) 11 Deficit budget is drawn up during deflationary period so as to sustain the economy of a nation. (D) 12 A drawer is a person who is authorized to be paid by the bank. (A) S1 S1 Price ດ1 Q2Qty supply $Q_{so} = ao + bp-(i)$ $Q_{si}=a1+bp-(ii)$ 13 The liability of a sole trader is unlimited because if the sole trader business folds up, the owner will loose his/her capital including personal property to pay up outstanding debt. (B) 14. Fixed cost is' the expenses on fixed asset which does not change due to increase in production over a period of time, except during the long run, where all factors of production are variable. (C) 15. Iran and Venezuela are major founding- members where Egypt and Syria ioined later. Indonesia is not part. (A) 16 Production is the creation of utility, production of goods and services are meant to satisfy human wants. (C) 17 Gross Domestic product is the total monetary value of goods and services the country, by both citizens and foreigners, within a given period of time, usually a year. (B) 18 Change in consumer income = N36,00 VNTI'S OAU POST-UME Past Questions & Solutions 2005+

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```
30,000=N6,000
% change in consumer income
=6,000x 100 = 16.7\%
36,000
Change in consumer purchase
=30-25=5unit
%change in consumer purchase
= 5 1 \times 100 = 20\%
25 1
5
Income elasticity of demand
=20% =1.198
16.7%
=1.2 (C)
19 It the average export prices increase relatively to the average import
prices, the terms
of trade are favorable. (C)
20 It benefits the debtors because during the inflationary period the value of
money will
reduce in term of its purchasing power. (D)
21 Monopolistic market competition is market structure characterized by
numerous firms
selling similar but differentiated products. (A)
22 The real economic cost is opportunity cost which is risk or cost is
forgone. (A)
23 Income tax is progressive because the higher you earn the higher tax you
pay. (A)
```

OBAFEMI AWOLOWO UNIVERSITY 2007 POST-UME TEST

ECONOMICS

- 1. Economics is founded on the principle that:
- a. Human wants are more than human needs b. materials things are more than human

wants c. human want are limitless while the means to satisfy them are limited

- d. human needs are easy to define
- 2. The capitalist economic system is characterized by all the following except:
- a. Private ownership of the means of production b. equitable distribution of income and

wealth

- c. Capital accumulation
- d. markets and prices coordinate economic activities
- 3. If the equation relating consumption (c) to income (Y) is C=N7, 500+0.2Y then a.

Consumption is inversely related to income b. consumption is the independent variable

and income is the dependent variable c. if income is f415,000, the consumption is

N10,500 d. if consumption is N30,000, then income is NI 0,000

- 4. The reason for the law of demand can best be explained in terms of a supply $\frac{1}{2}$
- b. complementary goods the rationing function of prices d. diminishing marginal utility
- 5. The demand curve for the pure monopolist is a. perfectly price elastic b. perfectly

price inelastic c. down sloping d. up sloping

- 6. Which of the following statement is correct? The Central Bank
- a. prints the country's currency
- b. handles the collection of debts owed to the government
- c. lands money to businessmen
- d. issues the country's currency
- 7. Which of the following is not a basic assumption underlying the theory of consumer

behaviour

- a. consumers prefer more to less
- b. consumers are rational
- c. consumers are willing to make choices d. consumers make consistent choices
- 8. The slope of the budget constraint

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a. changes as the marginal rate of satisfaction changes b. is the ratio of the prices of the

two goods c. is the ratio of the budget of total utility d. equals one, since the

consumer can buy combination along the budget constraint

- 9. Disposable income equals
- a. personal income less business profit
- b. personal income less taxes and subsidies
- c. personal income less taxes plus subsidies
- d. National income plus transfer payment
- 10. The 'term of trade' means
- a. the trade agreement between two countries b. the difference in the volumes of export
- of two countries
- c. the value of a unit of export in relation to the value of a unit of import
- d. none of the above
- 11. The burden of tax on a commodity whose demand is infinitely inelastic
- a. is zero b. will be borne by seller alone c. will be borne by buyers alone
- d. is impossible to tell
- 12. Inflation can be curbed by
- a. increasing aggregate demand
- b. paying higher wages
- c. reducing aggregate demand
- d. a deficit budget
- 13. The supply and demand for goods and services are influenced by the
- a. Supermarkets b. Entrepreneurs
- c. Mechanism of the law
- d. Price mechanism
- 14. In a sole proprietorship, the decisions are made by the a. Government b. Board of

Directors c. Shareholder's conference

- d. Owner
- 15. Which of the following are direct taxes?
- A. income and company taxes
- b. sales taxes c. commodity taxes
- d. Excise duty
- 16. The production within the domestic territory of a country is called the
- a. Net National Product
- b. Gross Domestic Product
- c. Disposable Income
- d. Gross National Product
- 17. A producer sustains a loss in the short run it a. marginal revenue is less than price

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- b. price is less than average cost
- c. marginal cost is less than marginal revenue d. average variable cost is less than average

cost

18. Money market differs from capital market in that it: a. deals with short-term loans

while capital market deals with long term funds b. deals with money only while capital

market deals with capital as well c. is limited in scope while capital market is not d.

uses interest rates while capital market does not

- 19. A production possibility curve shows:
- a. how much of the resources of society are used to produce a particular commodity
- b. the rate of inflation c. the rate of unemployment in the economy
- d. the various combinations of two commodities that can be produced.
- 20. The situation in which the total amount of government spending exceeds total

revenues is called a:

- a. balanced budget b. budget deficit
- c. budget surplus d. fiscal surplus
- 21. The maximization of profit tends to be the driving force in the economic decision

making of: a. entrepreneurs b. workers

- c. consumers d. legislators
- 22. Which of the following equation is the correct one about Net National Product

(NNP)?

- a. NNP = Gross National Product (GNP) Depreciation b. NNP = Gross National Product (GNP) + Net incomes from abroad c. NNP = Gross Domestic Product (GDP) Depreciation
- d. NNP = Gross Domestic Product (GDP) Net incomes from abroad
- 23. Middlemen in an economy perform the function of
- a Protection b. hoarding
- c. distribution d. exchange
- 24. Line E in the diagram below represents:
- a. total cost b. Variable cost
- c average cost d. fixed cost

Qty E

F

Cost

ANSWER

1. C 6. D 11. C 16. B 21. A

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- 2. B 7. A 12. C 17. B 22. A
- 3. C 8. B 13. D 18. A 23. C
- 4. C 9. C 14. D 19. D 24. D
- 5. A 10. C 15. A 20. B

EXPLANATIONS TO ANSWERS

1. The Economics as a subject was introduced purposely because of scarcity of resources

to satisfy human wants. If all human want can be satisfied with available resources, there

would be no need of introduction of economics as a subject.

In conclusion, Economics is founded on the principle that human want are limitless while

the means to satisfy them are limited. Therefore, Economics as a subject teaches how

limited resources can be rationed among unlimited wants. (C)

2. Capitalist economic system can be defined as a means by which individual has right to

own means of production e.g. land, capital, labour etc, and use it to their best interest.

Here, it means that those who have the capital and other means of production have the

power to control economic activities in the country. And it is not everyone in the country

that has access to all means of production; therefore, those who have will be wealthier

than those who have not. In conclusion, there will be inequitable distribution of income

and wealth. (B)

3. If C = N7, 500 + 0.27Y

If income (Y) = 15,000 what is the value of consumption (C)

Let substitute the value of income (Y) into

consumption equation above.

C = N7, 500 + 0. 2 (15,000)

C = N 7,500 + 3000

C=N10, 000 (C).

4. The law of demand states that "The higher the price, the lower the quantity demanded

and the lower the price, the higher the quantity demanded". The law dictates that the

price dictates the amount of quantities that would be demanded by the consumers. (C).

From the above diagram, demand = average revenue.

The monopolist has right to control either the price or the quantity he wishes to sell. He

can vary his price level as he wishes. (A)

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6. The Central Bank is the government apex bank. It is the only bank that government has authorized to issue the country's currency. (D) 7. All consumers are rational in spending their income on commodities that will vield the same level of satisfaction to the money they have spent. All consumers are willing to make choices on their choice of the commodities to be consume that will give them the higher satisfaction the want, Since all our Т Quality X MR U Excess profit Price unlimited; therefore, consumers make consistent choices. It is only option (A) is not a basic assumption of the theory of consumer behaviour. (A). From the budget constraint equation M=P1 X1÷P2 X2. The slope of the budget constraint X1=m/p-P2X2.it means that M(income) is spent on the addition of piX1 (cost of commodity X. piXl) and the cost of commodity X2, i.e P2 X2. It means that the income of the consumer is rationalizecf1 between the two commodities, the (B). 9 Disposable income =Personal income Tax + Subsidies Disposable income is called take home after tax has been deducted from the real income. (C) 10. Terms of trade can be defined has the rate at which a country's export exchange for import (C) 11. When the demand curve is infinitely realistic or perfectly realistic, output remains the same but the is increase by the full amount of the tax. The consumer bears the burden of the tax, the commodity is essential commodities which means that whether the consumer

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substitute. (C)

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like it or not they most buy it and the commodity does not have close

12 Once inflation itself is defined as general rise in price of goods and services within a particular time. It is the excess demand over supply that leads to inflation Therefore, answer is C. 13. It is the forces of demand and supply that dictate the level of price in the matter for instance, if the price of the commodity will increase while the quantity demanded will decrease. (D). 14 Sole proprietorship is a one man business, therefore the decision is taken by the owner. (D) 15 Direct tax is compulsory levied imposed on income and profit of individual companies. (A) 16 GDP is the total monetary values of goods and services produce within the country at a particular period of time. Therefore the answer is Gross Domestic product (B) From the diagram above price is less than average cost there by making the firm to sustain loss represented by the shaded portion. Answer is (B). 18 Many market is for short term loans while capital market is for long term loans. (A). X1 P1 P2 $Q X_2$ P_1 S_1 S_1 S D 0 D Quality С Р 0 Qtv MC MR = AR = P = D19 Production possibility by curve (PPC) is showing combination of commodities

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20. The question defines the government deficit

that can

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be produced with a given factors pf production e.g labour & Capital (D)

21. Entrepreneurs control all factors of production with purpose of making profit. The

reward of entrepreneur is profit. (A)

22. Net National product is the total monetary value of goods and services produce within

a particular year in a given country including net income from abroad less depreciation.

(C)

23 Middlemen are the link between the producer and the consumer. They are performing

the function of the distribution of goods to the final consumers. (C) budget. (B)

24.

OBAFEMI AWOLOWO UMVERSTY 2008 POST- UME TEST

ECONOMICS

- 1. Which of the following best describes a perfectly inelastic demand function?
- a. the quantity demanded is insensitive to changes in price
- b. price is insensitive to changes in quantity demanded
- c. price and quantity demanded changes by some percentage
- d. the demand function is horizontal
- 2. Which of the following statement is true?
- a. a variable defined over a period of time is called a stock variable
- b. microeconomics analyses interaction in the economy as a whole
- c. a fall in the price of garri will shift its demand right ward d. the market demand curve

for commodity will shift to the right if the price of its substitute falls.

- 3. Which of the following statement is false?
- a. Ends in Economics are the resources with which it can attain our goals b. Tables and

graphs are focus of arithmetic technique used in economics to present ideas pictorially

Capital PPC

0

01abour

Fixed cost (E)

Total cost

Qty

Tc, Fc

- c. Three basic questions every economy must answer are what to produce, how to produce and for whom to produce.
- d. A and B. are substitutes if the supply of A increases, the price of B will tend to

increase

4. Which of the following statement is false? a. An economy where economic decision

making is shared by individuals and government is known as mixed economy

b. Given that apples and pears are substitutes, if the price of apples falls, the price of

pears falls

c. an elasticity of demand measured between two points on a demand curve is called a

point elasticity of demand d. A and B are complements, if the supply of A decrease, the

price of B will tend to fall

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- 5. Which of the following statement is true?
- a. if cross price elasticity of demand between two goods, A and B is negative, we can

conclude that A and B are substitutes

b. the co-efficient of elasticity of demand is measured as a ratio of change in quantity

demanded to change in price c. a market will be in disequilibrium when demand is not

equal to supply d. all of the above

- 6. If the equation relating consumption (C) to income (Y) is C=N7, 500 + 0.2Y, then
- a. consumption is inversely related to income
- b. consumption is the independent variable and income is the dependent variable
- c. if income is N15,000, the consumption is N10,500 d. if consumption is N30,000.

then income is N10,000

- 7. The reason for the law of demand can best be explained in terms of:
- a. supply b. complementary goods
- c. the rationing function of prices
- d. diminishing marginal utility
- 8. The demand curve for the pure monopolists is
- a. perfectly price elastic
- b. perfectly price inelastic
- c. downsloping d. upsloping
- 9. Which of the following statement is correct? The Central Bank
- a. prints the country's currency
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- Depreciation
- b. NNP = Gross National Product (GNP)
- Net income from abroad
- c. NNP = Gross Domestic Product (GDP) Depreciation
- d. NNP Gross Domestic Product (GDP) -

Net incomes from abroad

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12. Money market differs from capital market in that it a. deals with short-term loans

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- c. the rate of unemployment in the economy
- d. the various combinations of two commodities that can be produced
- 14. The situation in which the total amount of government spending exceeds total

revenues is called a

- a. balanced budget b. budget surplus c. budget deficit d. fiscal surplus
- 15. The maximization of profit tends to be the driving force in the economic decision

making of: a. entrepreneurs b. workers

- c. consumers d. legislators
- 16. Age distribution table

The table above shows the age distribution of a town in Nigeria.

What is the dependency ratio of the town?

- a. 3.2 b. 2:1 c. 5.2 d. 4:3
- 17. Which of these factors does not cause a

change in demand?

- a. income b. population
- c. price of other commodities
- d. price of the commodity itself
- 18. When the demand for a commodity is

inelastic, total revenue will fall if

- a. price is increased
- b. price remain constant
- c. price is reduced d. the commodity is a

1uxurv

19. An economic system in which most capital goods are owned by individuals and

private firms is known as

- a. planned economy
- b. capitalist economy
- c. mixed economy
- d. socialist economy

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20. Which of the following is the most liquid asset to commercial bank? a. cash b.

money at call c. stocks and shares

- d. Treasury Bills
- 21. At every point on an indifference curve, the
- a. Total Utility is decreasing
- b. Level of Utility is constant
- c. Level of Utility is increasing
- d. Consumer is satisfied
- 22. Tax incidence is the analysis of
- a. How progressive a tax is
- b. who ultimately pays the tax
- c. How distorting a tax is
- d. How a tax is collected
- 10 15yers 16 35 yrs 36 50 yrs 61 and above 10000 30000 50000 2000
- 23. A monopolist will practice price discrimination in two markets if
- a. there is a patent of the commodity
- b. there is free flow of information in the two markets
- c. the markets have different elasticities of demand d. the cost of separating the markets is

1_{ow}

- 24. Which of the following is regarded as fixed cost?
- a. Cost of raw materials
- b. Labour wages
- c. Rent on Land d. cost of light
- 25. Given that fixed cost is N500.00, variable cost is Ni, 500.00 and output is 40 units

what will be the average cost of producing one unit? a. N 2.50 b. N37.50 c. N50.00

- d. N500.00
- 26. Which of the following does not hinder the efficient distribution of goods in West

Africa?

- a. Government participation in the distributive trade
- b. inadequate storage facilities for agricultural goods
- c. inadequate credit facilities for potential distributors
- d. the tendency to hoard and smuggle
- 27. Which of the following is the most important reason why wages differ among occupations?
- a. Length and cost of training
- b. Supply of Labour
- c. Attractiveness of the job

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d. Influence of trade Unions

ANSWERS KEY

- 1. A 6. C 11. A 16. A 21 D 26. A
- 2. A 7. D 12 A 17. D 22 B 27 A
- 3 A 8C 13 D 18. C 23. C 4. B
- 9. D 14 C 19 B 24 C 5, A 10 A 15 A 20 A 25 C 6A

EXPLANATION TO ANSWERS

1. Change in price of the commodity from P1 toP2 has no effect on quantity demanded,

as it remains at Q1 (A)

2. A variable that is defined relative to a particular period of time is a stock variable. For

instance, National Income for 2010. But, option B is wrong because it relates only to the

individual economic agents, option C is also wrong a fall in price does not shift its

 P_2

Sı

0 Q₁

P₁

Q P

demand curve. Likewise option D is wrong because a fail in price of a substitute goods

will only shift the demand curve of a given commodity to the Ieft. (A)

3. Our Ends are our goals and the resources to satisfy them are the means. Options B and $\,$

C are absolutely correct but option D is ambiguous because, substitutability and

complementarily of a commodity does not affect its supply, conventionally. (A) 4. If the price of apple falls, the quantity of pear also fall. Option B is absolutely wrong

because it describes are elasticity and not point elasticity. Option A i absolutely correct

but options B and D are ambiguous. For B, because it is conventionally assumed that the

price of substitute goods is constant while varying the price of a particular good. And for

- D, because of the same reason in option D in question 3 (B).
- 5. Option B & C are correct, but for option A, a negative cross elasticity indicates

complimentary goods are not substitute goods. (A)

 $\boldsymbol{6.}$ Options \boldsymbol{C} is correct because if income is

Ni 5000.

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The consumption will be Ni 0500.

That is, C = 7500 + 0.2y, c = 7500 + 0.2(15000),

=7500+3000, C=N1 0500.

Option A is wrong because consumption is directly related to income. B is wrong

because consumption is dependent while income is independent variable, and ${\tt D}$ is wrong

because at Ni 0000 income, the consumption will be N 9500 and not N30000. (C) 7 Option D is right because the law of demand is derived from the axiom of DMU which

relates that as more and more of a commodity is consumed the utility derived from

additional amount is decreasing and the consumer will be ready to pay less for more

quantity of the additional amount. other options are wrong. (D)

8. A monopolist is an imperfect market and is faced with a downward sloping demand

curve. Other options are wrong. (C)

9. Question A B & option C are not correct because CBN does not deal directly with

individual. (C)

10. Options A, B and D are correct because they relate to assumptions of Non-satiable.

Rationality and constituency respectively. But option C is out of point because the

consumers are forced to make choices since he cannot satisfy all his needs with the

available resources. (A)

11. Only option A truly describe the NNP. The Net National Product(NNP) is achieved

by deducting depreciation from the Gross National Product (GNP). (A)

12. Option A is correct because money market is the market for short term finance and

capital is the market for long term finance. (A)

13. Because production possibility curve (PPC) shows the various combinations of two

commodities that can be produced given the available resources. (D)

14. If Government Expenditure = Government

Revenue=Balanced Budget

Expenditure Revenue Budget Surplus

Expenditure>Revenue=Budget Deficit

Hence, Option C is correct

15. Because profit maximization cannot attract workers, consumers or legislators but the

entrepreneurs. The reward for entrepreneur is profit. (A)

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- 16. The dependency ratio is the proportion of dependent population(i.e. children and aged) to the working population. In this case, 10000+2000 = 12000 = 3 3000+5000 8000 2 3:2(A)
- 17. A change in income, population or price of other commodities will always cause a

shift in demand. Whereas only change in the price of the commodity can cause change in

the quantity demanded. (D)

18. C The total revenue will fall if price is reduced because the qty demanded will not

increase up to the rate at which the price is reduced.

- 19. B
- 20. A
- 21. D
- 22. B
- 23. C
- 24. Fixed costs are cost on fixed asset. Rent on land is a good example. (C)
- 25. AC=TC or FC+V $500\square$ } 1500 = 0.Q0= N 50
- 0 0 40 40
- 26. A
- 27. A

OBAFEMI AWOLOWO UNIVERSITY 2009 POST UME TEST

ECONOMICS

1. For two substitute goods, the gross elasticity of demand is (a) greater than one but less

than (b(zero (c) negative (d) positive (e) infinity

2. If a person receives a higher wage than would be necessary to induce him to work, he

is said to be receiving (a) rent (b) profit (c) interest (d) gain (e) moratorium

3. Which of this is likely to be inflationary (a) tax increase (b) budget surplus (c) increase

in unemployment (d) wage increase (e) increase in labour supply

4. A characteristic of a debenture is that (a) its yield is based on profits (b) its yield is

fixed rate of interest (c) it has no redemption date (d) there is a voting when interest is

paid (e) its interest is variable

- 5. Which of these is not include in measuring national income by the income approach
- (a) wages and salaries of public servants (b) students bursaries and scholarship (c) profit
- of international (d) income of self employed person (e) rents on property
- 6. The revenue accruing to the seller of commodity X as a result of a fall in price will (a)

increase (b) fall (c) first fall but increase later (d) remain unchanged (e) change

noticeably

7. Deflation is persistence fall in price in the general level and is usually caused by (a) a

reduction in total demand (b) an increase in government spending (c) an increase in

money supply to banks (d) an increase in aggregate demand (e) an increase in money

supply relative to demand

8. Under partnership, investors who have no desire to be actively involved on the daytoday

management of such organizations are called (a) stock brokers (b) sleeping partners

- (c) part-time investors (d) ordinary partners (e) debenture holders
- 9. In a sole proprietorship, decisions are made by the (a) government (b) board of

directors (c) management (d) shareholders (e) owners

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- 10. A greater burden of taxes on essential goods is borne by the (a) middle income group
- (b) higher income group (c) lower earning group (d) people falling between the middle
- and higher income group (e) top few richest people in an economy
- 11. Demand as a factor of production is (a) a composite demand (b) a joint demand (c) a
- derived demand (d) an elasticity of demand (e) cross elasticity of demand
- 12. One disadvantage of sole proprietorship is its (a) limited liability (b) high profits (c)
- high sense of ownership d) low credit rating (e) low failure value
- 13. The monetary system that requires double coincidence of wants is known as (a) the
- gold standard (b) the uarter practice (c) the commodity system (d) the good exchange
- standard (e) the Cheque system
- 14. The marginal theory of distribution makes an assertion that the price of any factor
- depends upon its marginal (a) utility (b) productivity (c) rate of substitution (d) revenue
- (e) proceeds
- 15. By using exchange controls, a country tries to eliminate a balance of payments deficit
- by (a) limited her imports to its currency of exports (B) reducing the nation's domestic
- price level (c) limiting her exports to its currency value of imports (d) overvaluing the
- country's (e) undervaluing the country's currency
- 16. Economies of scale operate only when (a) marginal cost is falling with input (b)
- average cost is falling with output fixed cost is variable (c) fixed cost in variable (d)
- variable cost less than fixed cost (e) variable cost is equal to cost of output
- 17. If an increase in income induces a reduction in the demand fro beans, beans can be
- referred to as (a) a normal good (b) an inferior good (c) a substitute (d) a dash (e) a gifted good
- 18. Optimum population is desired because it enable an economy to attain maximum (a)
- per capital income (b) per capital output (c) per capital real income (d) per capital

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revenue (e) growth rate

19. Marginal cost curve intersects average cost cure (a) from above at its lowest point (b)

from below before the lowest point (c) from below at its lowest point (d) from below

after the lowest point (e) at the zenith of turn

20. The concept of economics efficiency refers to (a) obtained the maximum output from

available resources at the lowest possible cost (b) conservation of natural gas and oil

deposits (c) equity in the distribution of national resources (d) production without waste

- (e) the limited wants unlimited resources dilemma
- 21. A majorfactor affecting the value of money is the (a) price level (b) banking habit (c)

transaction motive (d) divisible nature of money (e) transferability

22. Which of the following is an example of invisible item on balance of payment

account? (a) shipping and aviation (b) import and export (c) merchandise (d) bullions (e)

tariffs

23. The best index for international companies of standard of laying is the (a) cross

national product (b) net national income (c) per capital income (d) cross national income

24. A major obstacle to economic development in many African countries (a) a rise in

industrial output (b) low farm productivity (c) free trade (d) free interaction (e) controlled

international relations

25. The most popular adopted industrialization strategy in West Africa is (a) import

substitution (b) export promotion (c) ports development (d) infant industries potation.

ANSWER KEY

1 D 6. C 11. C 16. C 21. A 2 E 7. A 12. D 17. B 22. A

3. D 8. B 13. B 18. B 23. C

4 B 9. E 14. B 19. C 24. B

5 B 10. C 15. A 20. A 25. B

EXPLANATION TO ANSWERS

1. The higher the price of commodity ,A the higher the quantity Demanded of commodity

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- B (A'. 5 substitute). Hence the cross elasticity is positive. (D)
- 2. Moratorium is an inducement or grace received without actually working for it. (E)
- 3. An increase in wage will increase the purchasing power of consumers and invariably

the aggregate demand, it will tend to increasing price level(inflation)if not matched with

increase in production. (D)

- 4. Debenture is a loan to the company and it a attract a fixed of interest as usual. (B)
- 5. Student bursaries and scholarships are transfer income which is excluded Natona

income computation under income approach . (B)

6. If the price of a particular commodity is reduced quantity demanded will increase

gradually and the total revenue will first fall and increase later. Ans C

7. Generally, fall in total demand will cause the price to fall, and t will fall persistently if

not carefully checked. (A)

8. Sleeping partners are partners that contributes to the smooth running of the business

but does not participate in the day-to-day activities of business. (B)

9. A sole proprietorship business is owned, managed, and financed by an individual

owner, thus decisions are made by the owners. (E)

10. The lower earning group usually from the group of final consumers and all burden of

tax are shifted on them. (C)

11. Factors of production are demanded not for their own sake but for what they will be

used to produced. Hence, it is a derived demand. (C)

12. The major disadvantage of sole proprietorship is limited capital expansion emanated

From limited credit rating. (D)

13. Barter practice is the exchange system where goods and services are exchange

directly. It involves double coindence of wants. (B)

14. Thus, for profit to be maximized, marginal products of factors of production must

equal to their prices. Hence MP, =w and MPk, =r. (B)

15. Deficit balance of payment (BOP) occur when imports are more than exports. Hence,

will control it by limiting her imports to what can be financed by her currency of exports.

(A)

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16. Economics of scale only occurs in the long run when all factors of production are

variable (C).

17. An inferior goods will have a negative income elasticity. (B)

18 An optimum population is a situation where available population can exploit available

resources efficiently and per capital output is maximized. (B)

19. The minimum point of average cost(AC) is the efficiency point and the firm will

break-only where the margined cost curve intersects average cost curve from below at its

Lowers point. (C)

20. Since our want are unlimited and our resources limited in supply. Thus, economics

seeks to obtain the maximum output firm available resources of the lowest possible

cost. (A)

21 A persistence increase in general price level will cause inflation and reduce the value

of money, and the reverse is correct for deflation.

(A)

22. Invisible items are services transferred from one country to another. It includes

shipping and aviation, tourism, education e.t.c. (A)

23. Per capita income is obtained by dividing the national income by the total population

of a given country. It is used for international comparism of standard of living. (C)

24. Many African countries have shifted the domain of the economy from Agriculture to

some other area, this has lead to a significant fall in Agric products which services as

input for industrial development (B)

25. Most west African countries are usually combated with deficite balance of payment

(BOPs), thus, they usually embark on export promotion strategy as their industrialization

strategy. (B)

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OBAFEMI AWOLOWO UNIVERSITY 2010 POST UME TEST

ECONOMICS

1. In economics, the pleasure, happiness or satisfaction received from product is called a.

Marginal cost b. rational out come c. status fulfillment d. utility

2. A person should consume more of something when it's marginal a. benefit b.

exceeds its marginal benefit d. benefit is still positive

3. Macroeconomics can best be described as the a. analysis of how a consumer tries to

spend how a consumer tries to spend income b. study of the large aggregates of the

economy or the economy as a whole c. analysis of how firms attempts to maximize their

profits b. study of how supply and demand determine prices in individual markets

4. When economists say that people act rationally in their self interest, they mean that

individuals: a. Look for and pursued e opportunities to increase their utility b. generally

disregard the interest of other c. are mainly creatures of habit d. are unpredictable

5. As related to international trade dumping a. is a form of price discrimination illegal US

antitrust law b. is the practices selling goods in a general case for permanent tariffs' d. is

define d as selling more goods than allowed by an import quota

6. A nation's production possibilities curve is bowed out from the origin because a. wants

virtually unlimited b. The originator of idea drew it this way and modern economists

follow this convention c. resource are scarce d. resources are not equally efficient in

producing every goods

7. If the production possibilities curve were a straight down sloping line, this would

suggest that a it is possible to produce more of both product b. resources are equally

capable of satisfying consumer want the two products have identical prices

8. Productive efficiency refers to a. the use of the least cost method of production b. the

population of the product-mix most wanted by society c. the full employment of all

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available resource d. production at some points inside of the production possibilities

curve

- 9. Which of the following statement is correct?
- A. if demand increase, equilibrium price will fall. B. if supply increase demand

decreases, equilibrium price will fall. C) If demand decreases and supply declines and

demand remains constant, equilibrium price will fall.

- 10 If depreciation exceeds gross investment:
- a.) the economy's stock of capital may be either growing or shrinking. B. the economy's

stock of capital I growing. c.) Net investment is Zero .d) the economy's stock of capital is

shrinking.

- 11. Assuming the total population is 100 million, the civilian labor force is 50 million,
- and 47 million workers are employed the unemployment rate is: (a) 3% (b) 6%.
- (c) 7%.
- (d) 5.3%.
- 12 Unemployment involving a mismatch of the skill of unemployed workers and the skill

require for available jobs is called: (a) Frictional unemployment (b) structure

unemployment (c) Cyclical unemployment (d) compositional unemployment

13. The greater is the marginal propensity to consume, the (a) smaller is the marginal

propensity to save (b) Higher is the interest rate. (c) Lower is the average propensity

consumed. (d) Lower is the price level.

14. Investment and saving are, respective; (a) Income and wealth (b) Stocks and flows (c)

Injection and leakages (d) Leakages and injections.

15. The amount by which government expenditures exceed revenues during a particular

year is the; (a) public debt (b) Budget deficit. (c) full employment. (d) GDP gap.

16. The value of money varies: (a) inversely with the price level (b) Directly with the

volume of employment. (c) Directly with the price level. (d) Directly with interest rate.

17. If actual reserves in the banking system are #40,000 excess reserves are #10,000. And

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checkable deposit are #240,000 then the legal reserve requirement is (a) 10%. (b) 12.5%:

- (c) 20% (d) 5%
- 18. The discount rate is the interest: (a) rate at which the Central Bank of Nigeria lends to
- the Nigeria government. (b) Yield on long-term government bonds. (c) Rate at which the

Central bank of Nigeria lend money to commercial Banks.

19. The basic formula for the price elasticity of demand coefficient is: (a) Absolute

decline in quality demand/absolute increase in price (b) Absolute decline in price

fabsolute increase in quality demand (d)change in quantity demand (c) % change in price

1% change in price.

20. If a firm can sell 30,000 units of products A at S10 per units and 5,000 at S8, then: (a)

the price elasticity demand 0.44. (b) A is a complementary good. (c) The price elasticity

- of demand is 2.25. (d) A is a inferior good.
- 21. Assuming a household would consume #100 worth of goods and services per week if
- it weekly income where Zero and would spend an additional #80 per week for each #100

additional income. It Q represents consumption and Y income, the summarizes this

relationship is (a) C = 80+1 00Y. (b) C=1 00 \div 8Y. (c) C=1 00 + 0.8Y (d) C=80+1 1 Y.

22 For a bicycle company, an economist predicted that other things being equal. a rise in

consumer incomes will increase the demand for bicycle, this prediction is based on the

assumption that. (a) There are many goods that are substitute for bicycle. (b) there are

many goods that are complementary to bicycle. (c) there are few goods that are substitute

for bicycle. (d) Bicycle are normal goods.

23. A demand curve which is parallel to the horfzontal axis: (a) Perfect inelastic (b)

Perfect elastic (c) relatively inelastic (d) relatively elastic.

24. Allocation efficiency occurs only at that output where: (a) Marginal benefit exceeds

marginal cost the greatest amount. (b) consumer surplus exceeds producer surplus by the

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greatest amount. (c) The areas if consumer and producer surplus are equal. (d) the

combined amount of consumer surplus and producer surplus are maximized.

25. The primary problem of economic is (a) To obtain more equitable distribution of

money income (b) Production of a given output with the lowest cost combination of

factors of production (c) Adoption of capital-intensive technology (d) Increase the

quantity of the factors of production.

ANSWER KEY

1 D 6 C 11 B 16D 21 -

2 A 7 D 12 B 17 - 22 D

3. B 8 C 13 A 18. D 23 B

4 A 9 D 14 C 19 D 23 B

5 B 10 D 15B 20 B 25 B

EXPLANATION TO ANSWERS

1. Utility is the amount of satisfaction a consumer derived from consuming a particular

commodity. (D)

2. A consumer will consume more of a commodity when MU>MC

exquisite the marginal cost and the marginal benefit reduce as more and more of the

commodity is consumed. Hence, consumer should consume more of the commodity to reduce marginal benefit and equate it with marginal cost (A)

- 3. Macro is derived from the Greek work "Makros" meaning "large" Hence, macroeconomics is the study of the economy at large. (B)
- 4 The selfish interest convention of Adam Smith implies that every individual operate in

favor of his or her personal self. That is to increase their personal utility. (A)

5 Option describes dumping It is a method used to get rid of some less valuable producer'

country. (B)

6 A hand-out CPC explain the concept of scarcity. It means that to increase the input

of a product the input of another product, must be reduced at increasing rate. (C)

7 A downward slopping ppc implies a constant rate of a production. In other words. it

implies an identical price for the two products. (C)

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8 To operate efficiently is to operate along the ppc where all available resources are fully

and gradually utilized. (C)

9 It supply increase and demand decrease, the equilibriumn price will fall. Option D is

obviously correct, But for the other option the issue of decrease in price will depend on

the rate of increase or decrease of demand or supply which is not given. (B) 10 Economy develop on surplus net capital formation i.e net investment thus if capital

consumption (depreciation) is so large as to absorb more than the whole capital

formation, the economy stock of capital (i.e. initial capital formation)will slowdown. (D)

11 50-. 47X100=3X100=6% (B)

50 50

mps, since

Unemployment rate is the proportion of unemployed labour to total labour force

12 Structural unemployment occurs when there is sudden change in the structure of the

economy If a labour intensive economy suddenly change to a capital intensive economy

standard unemployment will no doubt occur

13 Note that the total income is divisible into consumption and saving i.e Y c+s. Hence, the MPc +MPs=1 Therefore, the higher the MPc the lower the

the two must add up to 1(A)

14 Given a circular flow of income for a particular economy investment tends to boost

the flow of income hence it is called injection whereas savings will slower the pace of the

circulation flow of income hence named withdrawal! leakages (C)

15 For a particular fiscal year, if government decides to spend more than its expected

revenue it will surely incur deficit this type of budget is termed Budget Deficit. (B)

16 According to the fisherian equation of exchange, Mv=PT money supply varies with

price level, given that the velocity and the level of transaction is constant (D)

17. LRR=

Initial Deposit x 100 = 40,000 X100 16.1%

Deposit Greated 240,000

18. The discount rate or the minimum rediscount rate (MRR) in Nigeria is the rate at

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which the central bank of Nigeria lends to commercial banks to. control money supplying in the economy (D)

19. Elasticity of demand is the proportional change in quantity demand to proportional

change in price

20. 3,000-5000 x 10 - 2000 x 10

 $3000\ 10-8\ 3000\ 2 = 3.33$

Option B seems to close to the answer but substitusbility and complimentary of a

commodity is deforming with cross elasticity

21. C=C° +CY

 $C^{\circ} = 100 \text{ (i)}$

CY = L = 0.8Y(ii) (= 100 + 0.8y (C)

22. If the quantity demanded of a commodity increases from the increase in consumers'

income, then such goods is a normal goods (D)

It is a perfectly elestic demand curve which reflect no

change in price of the commodity irrespective of the

change in quantity demanded.

24. Allocation efficiency is reached only at equilibrium point. At this point, both

producer's and consumer's surplus must be equal. (C)

25. The primary concern of economics is to satisfy needs with available limited

resources. (B)

GEOGRAPHY

OBAFEMI AWOLOWO UNIVERSITY 2006 POST UME TEST

- 1. The earth rotates through 150 of longitude once in (a) A minute (b) an hour
- (c) 24hours
- (d) a day
- 2. Aeolian erosion refers to the work of (a) Plants (b) wind (c) ice (d) running water
- 3. The scale of a map is the ratio between the (a) Distance over the land and the distance

over the water

- (b) Distance on the map and the distance on the globe (c) Vertical and horizontal
- differences (d) Distance on the map and that on the earth's surface
- 4. Which of the following scales should show the greatest amount of detail on map?
- (a) 1:50,000 (b) 1:500,000 (c) 1:20,000 (d) 1:200,
- 5. Which of the following statement is not true for lines of latitude?
- (a) They form parallel circle (b) they range from 00 to 180 N and S (c) only one line is
- also a Great circle (d) they form parallel circle
- 6. Large in area and high in population which of the following countries fits this
- description? (a) Lesotho (b) Togo (c) Nigeria (d) Zaire
- 7. One of these is NOT a landform in Africa (a) S carp (b) Isenberg (c) Drumlin (d)

Doline

- 8. Which of these does not lie in the principal earthquake regions of the world? (a) Japan
- (b) Kenya (c) Iran (d) Turkey
- 9. Which of these soil groups is considered the most productive? (a) Chernozems
- (b) Latosols (c) podzols(d) Sierozems
- 10. One example of inland drainage lake in Africa is (a) Lake Chad (b) Lake Victoria
- (c) Lake Malawi (d) Lake Turkana
- 11. The African river that crosses the equator twice is
- (a) Zaire (b) Nile (c) Mississippi (d) Amazon
- 12. Some rivers in the delta region break into many branches before entering the sea.

These divisions are known as: (a) Creeks

(b) Dstibutaries (c) tributaries (d) Effluents

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- 13. Kariba Dam is found in River (a) Zambezi (b) Congo (c) Niger (d) Nile
- 14. The major air affecting theclimate of West Africa in summer is the (a) harmattan
- wind (b) tropical continental (c) warm equatorial (d) tropical maritime
- 15. If a map has a scale of 1:50,000 and a cocoa plantation is represent on the map by a
- rectangle 4cm by 3cm. what is the area of the plantation? (a) 3sq.km (b) 30sq. Km (c)
- 12sq. krn (d) 20sq. km
- 16. The gap between two ranges within Which transportation is usually possible in a
- mountainous is called (a) Valley (b) col (c) ridge (d) spur
- 17. What are Greenhouse gases (a) Gases found around green houses in botanical gardens
- (b) Gases which are able to trap heat on the earth surface (c)Gases which help glob a!
- circulation of winds and plant growths (d) Gases which help farmers grow certain crops
- during the dry season.
- 18. The doldrums refer to (a) land area bordering the conthence of the blue and with Nile
- (b) area of intense weather activities around the Mediterranean (c) area in south Atlantic
- where cold and warm currents meet (d) area within a few degrees north and south of the
- equator
- 19 Nigeria sat is designed primarily to (a) Help GSM providers in achieving a wide
- national coverage (b) strengthen rapid response by Nigeria 's Armed Forces (c)
- Help in the 2006 Census (d) Provide information about various regions of the earth.
- 20 The major sedimentary minerals found in Nigeria include: (a) Tin. Columbite and gold
- (b) tin, coal and salt (c) limestone, columbite and diamond (d) limestone, petroleum and
- coal
- 21 The cloud which are white globular masses, forming ripples in the sky is called
- (a) Cirrus (b) cirrocumulus (c) altocumulus (d) altostratus
- 22 Which of the following routes must have the least gradient (a)motorway (b) rail line
- (c) bush path (d) canal
- 23. The foremost producer of petroleum in the Middle East are:
- (a) Saudi Arabia, Kuwait Libyan Iran

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- (b) Saudi Arabia, Iraq, Iran and Kuwait
- (c) Saudi Arabia, Iran, Venezuela and Oman
- (d) Saudi Arabia, Iraq, Libya and Venezuela ANSWER KEY
- 1. B 6. C 11 A 16 B 21B
- 2. B 7. C 12 B 17 B 22B
- 3. D 8.B 13 D 18 D 23 B
- 4. B 9. A 14 D 19 D
- 5. B IOA 15 A 20D

OBAFEMI AWOLOWO UNIVERSITY GEOGRAPHY 2007 POST UME TEST

1. At what time of the day will a traveler reach Gatwick airport in London if he leaves

Nigeria at 5am on a 6hr flight during the winter? a. 11hr b. 12.00hr c.

- 15.00hr d.
- 13.00hr
- 2. Which of the following is not an Anglophone country?
- a. Ghana b. Gambia c. Liberia d. Senegal
- 3. The shallow part of the sea which separates the deep from the land is called
- a. of shore coastal lowland b. the on shore tidal current c. continental shelf formation d.

coastal coral cliff

- 4. The port that handles the highest volume of cocoa export in Nigeria is
- a. Sapele b. Warn c. Lagos d. Port Harcourt
- 5. One major characteristic of rural settlements is that;
- a. are heterogeneous
- b. are homogeneous
- c. are large in size
- d. have more problems than urban settlements
- 6. Industrialization in Nigeria can best be promoted through the development of a.

textile industry b. Leather industry c. iron and steel industry d. automobile industry

- 7. Most of the industries located in rural areas are mw enerev consumers'
- b. high energy consumers' c. raw materials oriented
- d. transport oriented
- 8. The distribution of mineral resources in Nigeria is

related to its: a. relief

- b. soil c. vegetation d. geology
- 9. Which of the ocean currents is classified as cool?
- a. Benguela b. Kuro Siwo
- c. Gulf Streamd. Mozambique
- 10. The sea area with the highest degree of salinity is the a. Baltic Sea b. Caspian Sea c.

Dead Sea

- d. Mediterranean Sea
- 11. The thermometric scale usually employed to describe the absolute temperature of the

atmosphere is a. Centigrade b. Celsius c. Kelvin d. Fahrenheit

12. If the temperature at sea level in a particular place is 25° C, a place 3500m above sea

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level in the same area will have a temperature of a. 2.75° C b. 2.25° C c. 2275° C d.22.75° C

- 13. Which of the following is not a form of precipitation? a. dew b. snow c. hail
- d. fog
- 14. Which of the following pressure belts does not experience descending air? a. 60° N b. 60° S c. 0° latitude d. 30° N
- 15. In the Tropics, the most variable climatic element inter-annually is a. temperature
- b. solar radiation c. pressure d. rainfall
- 16. Soils that are formed by wind deposition are called
- a. laterites b. bess
- c. Podsols d. prairies
- 17. Desert soils are usually deficient in
- a. fertility b. light grey colour
- c. humus content d. horizons
- 18. Podsols and laterites share the following characteristics in common, except
- a. infertility b. high degree of leaching c. associated with forest vegetation
- d. colour
- 19. The forest type which is the most rich in tree species is the a. Tropical
- b. Deciduous
- c. Coniferous d. Mediterranean
- 20. Linseed oil is associated with a. flax b. coconut c. olives d. rapeseeds
- 21. Which of the following is not correct with regard to the Solar System?
- a. the planets all orbit round the sun
- b. the sun is only a source of the energy needed on the planets
- c. the earth as well as the other planets rotate around the sun d. all the planets have

definite orbits around the sun

- 22. Fossils fuel reserves are found in the Lake Chad basin because
- a. the basin lies approximately along the axis on which the rich Bakassi oil fields are

found

- b. The basin is at the edge of the desert with conditions similar to that Iraq
- c. It is an inland drainage basin with many large rivers emptying into it
- d. Its rocks are sedimentary
- 23. Which of the following is correct? A. The Canaries current is cold and washes

the coast of NE Africa b. The Peruvian current is warm and washes the west coast of

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America c. The Gulf Stream is warm and moves north eastward on the Atlantic d. The

Middle East current is warm and washes the coast of Saudi Arabia

24. Which of the following formulae is the current one of the converting \textbf{X}° Fahrenheit

temperature readings into Centigrade temperature readings $(y^{\circ})^{\circ}$ $(y^{\circ})^{\circ}$

(Y°)? a. Y = (X + 32)5/9° C b. Y = (X - 32)5/9° C c. Y (X - 32)9/5° C d. Y = (X +

32) $9/5^{\circ}$ C

ANSWER KEY

1A 2D 3C 4C 5B 6C 7C 8D 9 D 10C 11C 12-13D 14A 15C 16B 17A 18C 19A 20A 21C 22D 23B 24C

EXPLANATION TO QUESTION ONE

Nigeria on longitude 15° E (5 am)
London on longitude 0°
= 5am +6 hrs =11 am
Since London is 1 hrs (150) behind Nigeria
:.11 am-1hr= 10amLondon time
Therefore, 11 am Nigeria time = 10am London time.

OBAFEMIAWOLOWO UNIVERSITY GEOGRAPHY 2008 POST UME TEST

1. Global Positioning Systems (GPS) help in (a) combating crime (b) providing early

warnings against disasters (c) climate change monitoring (d) locating positions on the

earth surface.

- 2. One of these is not a factor of population growth (a) poverty (b) migration (c) prosperity (d) housing.
- 3. Which of this is not a major problem of Kainji dam?
- (a) Increase in the herds of cattle that depends on waters (b) Increase in usage of Niger

republic (c) silting of the dam (d) growing demand for irrigation water.

4. The East African large lakes are together described as (a) Great Lakes St Lawrence Sea

Ways (b) Rift Valley Lakes (c) sources of large rivers like Nile (d) products of the

formation of Kilimanjaro.

5. One of these is not true of rain gauges: (a) Rain gauges pro vide excellent measurement of rain fall (b) Their measurement may be affected by the particular type

used (c) their readings may be influenced by the slope of the land (d) Rain splashes during

heavy rains may lead to over estimation.

- 6. Ox bow lakes are found in (a) lower courses of some rivers (b) wind bow out sites
- (c) places with history of tectonism (d) areas of subsidence
- 7. Coombes are associated with (a)honey-bee farms (b) karst environment (c) rift valleys

systems (d) oases in the desert

8. The Stevenson's screen is used to keep (a) barometers (b) thermometers. (c)

hygrometers (d) evaporimeters.

9. South East Asia is noted for its regular experience of (a) hurricane (b) tornadoes (c)

typhoons (d) strong winds.

10. Horse latitudes refer to (a) areas around the gulf of Guinea (b) areas around the

equator areas around the Mediterranean sea (d) areas around latitude 30° in both

hemispheres.

11. "High uniform temperature and heavy well distributed rain fall through out the year"

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describe (a) Equatorial rain forest climate (b) Mid-latitude friendly environment (c) the

zone of the forest with a lot of agricultural potentials (d) the Great Amazon basin

including the Brazilian forest.

12. One of the following is least important to ocean movement (a) salinity of the ocean

water (b) temperature of the water (c) planetary winds (d) curvature of the coastal areas.

13. Which features on a topographical sheet would you analyze to characterize the

configuration of the area covered by the sheet (a) Isoyet and isolines (b) ranges and spot

heights (c) contour lines for cross section (d) contour lines for slope estimates.

14. The greatest challenge to future use of automobiles is (a) advances in air travels (b)

identification of alternative to fossils (c) changing and more reliable technology for rail

transport (d) population growth.

15. The cloud which are white globular masses, forming ripples in the sky is called (a)

Cirrus (b) Cirrocumulus (c) altocumulus (d) altostratus

16. Which of the following seas has the highest degrees of salinity in the world? (a)

Capian sea (b) Mediterranean sea (c) Dead sea (d) Esker.

- 17. Which of the following landforms is IIQI due to the process of glacier erosion?
- (a) Corrie (B) Valley bench (c) Hanging valley (d) Esker (B) Valley bench (c) Hanging

valley (d) Esker

- 18. Which of the following rivers does NT drain into the Atlantic Ocean? (a) The Niger
- (b) The Indus (c) The Amazon (d) The Volta
- 19. Which is the main crop grown in the Ghezira plains (a) Wheat (b) Millet (c) rice (d)

Cotton

20. Which of the following countries has a large number of people of Africa descent? (a)

England (b) Canada (c) Chile (d) Brazil

21. When it is 1200 noon on longitude 30° E, what is the time on longitude 15° W (a) 9.00

a.m. (b) 9.00 p.m. (c) 5.00.p.m (d) 5.00.a.m

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- 22. Which of the following Nigerian towns is NOT situated near a big river?
- (a) Lokoja
- (b) Onitsha (c) Jebba (d) Abuja
- 23. Fishing is the mainstay of the economy of (a) Libya (b) Iran (c) Iceland
- (d) Chad
- 24. The statement 'one cm 2km' can be represented by the ratio of (a) 1:50,000(b)
- 1:500,000 (c) 1:20,000 (d) 1:200,000
- 25. What is the local standard time in New York (75° W) when it is 2.p.m. in Accra? (a)
- 7. p. m. (1900hrs) (b) 7. am. (0700hrs) (c) 9. p. m (2100hrs) (d) 9. a. m. (0900hrs) 26. On any day in the year at a specific time (a) the sun is overhead along the equator (b)
- the sun is overhead along the tropic cancer (c) the north pole 24 hours of daylight (d) one
- half of the earth is i darkness
- 27. Which of the following is not a feature produce by volcanic activity? (a) horst (b)
- caldera (c) dyk (d) geyser

ANSWER KEY

- 1 D 2 D 3C 4B 5D 6.A
- 7. A 8. B 9. C 10. B 11. A 12. D
- 13. C 14. B 15B 16. C 17. D 18. C
- 19. D 20. D 21. A 22. D 23. C 24. D
- 25. D 26. D 27. A

Explanation to question 21& 25 21.

- 21. When it is 12noon on long 30E and long
- 15° W

Long differeice $rr15^{\circ}$ +30° = 45°

Time difference = 45° =45/15 =3hrs

Since East is a head of time

- .12.00 noon -3hrs =9.00am (A)
- 25 New York (75° W) =? Accra (10°) =2pm

Time difference = $75 = 75^{\circ}$ /I 5° =5hrs Since Accra is eastward, it is ahead of time, Time

in New York =2pm -5hrs =9am. (D)

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OBAFEMI AWOLOWO UNIVERSITY GEOGRAPHY 2010 POST UME TEST

- 1. All planets have satellites except:
- a. Earth & Venus b. Mars & Mercury
- c. Mercury & Venus d. Neptune & Venus
- 2. Which of the following locations in Nigeria has the least mean annual rainfall total?
- a. Sokoto b. Maiduguri c. Potiskum
- d. Nguru
- 3. Which of the following is not the karst features? A. Poljes b. Uvala c. Kopjes d.

Dolines

- 4. The world's longest river is: a. Amazon b Mississippi c. Nile d. Chang Jiang
- 5. One of these is a feature of a rejuvenated river: a. incised meanders b. braided channel
- c. delta d. levees
- 6. Which one of these is not is a thermometric scale: a. Celsius b. Kelvin c. Fahrenheit d. Octas
- 7. Which of these is not a form of condensation? A. Snow b. Rime c. Cloud d. Fog
- 8. Cyclones are centres of a. relatively low pressure b. relatively high pressure
- c. Tsunamis d. turning around of winds
- 9. The best natural harbour in West Africa is at a. Lome b. Tema c. Lagos
- d. Freetown
- 10. Sandstone is metamorphosed into a. Slate b. Schist c. Graphite d. Quartzite
- 11. The navigability of River Nile is limited because a. it is too long b. it is too
- shallow c. it flows during the wet season only d. it has several cataracts
- 12. The cloud which is closely associated with thunderstorms is a. stratocumulus b.

Cirrocumulus c. Cumulus-nimbus d. Alto-stratus

- 13. Drought-tolerant plants are a. Epiphytes b. Hydrophytes c. Dr. oughytes
- d. Xerophytes
- 14. Campos is the name for the grassland in a. North America b. South America c. Africa d. Asia
- 15. When the moon comes in between the earth and the sun in a perfect straight line, it is

known as a. Eclipse of the moon

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- b. lunar eclipse c. solar eclipse d. Eclipse of the earth
- 16. The earth rotates a. South east-South west b. south west-South east c. West- East ${\bf d}$.

East - west

- 17. A degree latitudinal distance is approximately a.70km b. 111kmc. 180km d.360km
- 18. Large masses of moving ice in the oceans are a. glacier b. iceberg c. ice-sheet d. ice-caps
- 19. The world driest desert is a. Atacama b. Sahara c. Kalahari d. California 20. A linejoining places of equal salinity is a. Isohaline b. Isoneph c. lsohyets d. Isohel
- 21. Which of these is not on the western side of continental land masses? a. Aguihas b. Canary c. Peruvian d. California
- 22. In general, temperature decreases from the Equator towards the Poles because a angle of incidence of sun's rays increases towards the poles b. angles of incidence of sun's rays decreases towards the pole c. snow-cover of the higher latitudes reduces the temperature d. snow falls rather than rain in the poles
- 23. Which of the following continents is crossed by both the Tropic of Cancer and Tropic of Capricorn? A. Asia b. S. America c. N. America d. Africa
- 24. The sea bed, bordering the continents which is covered by shallow water is known as a. continental slope b. coral reef c. continental shelf d. continental platform e. continental drift
- 25. The result of a football match completed at 6.00pm at Accra (Ghana) and immediately announced over the wireless was heard at 12.00noon same day at another city. The longitude of the city is a. 90° E b. 60° E c. 90° W d. 45° W e. 60° W

ANSWER KEY

1C 2B 3C 4C 5A 6B 7B 8A 9D 10D 11D 12C 13D 14B 15 16C 17B 18B 19B 20A 21A 22A 23D 24C 25C.

Explanation for Question 25

Accra (o) 6 pm Another city 12 noon Time differences - 6 hrs Since 1 hrs= 15° :. 15x6=90°

Since Accra is ahead of time the place must be in the West $(90^{\circ}\ \text{W})$ (C)

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OBAFEMI AWOLOWO UNIVERSITY GEOGRAPHY 2006 POST UME TEST

- 1. The farm Flintcomb Ash is symbolic of:
- a. Tess's fallen state
- b. Tess's innocence
- c. Tess's happiness
- d. The suffering and ill luck that is Tess's fate
- 2. Prince in the novel, is
- a. The title of Tess's ravisher
- b. Angel Clare's other name
- c. The name of a horse
- d. The name of Tess's brother
- 3. The period Tess spends at Talbothays is the period of her:
- a. The happiest period of her life
- b. The period she suffers most horribly in the novel
- c. The period she falls into temptation
- d. The period when she becomes pregnant.

The following three questions are on William Shakespeare Hamlet

- 4. The play Hamlet may be described as a tragedy of:
- a. Belief in ghosts
- b. Marital infidelity
- c. Indecision and procrastination
- d. Inordinate love of father by son
- 5. Prince Hamlet refrains from Killing King Claudius while the latter is praying because.
- a. He does not want to murder a pious man
- b. He is not yet fully convinced of his uncle' s-t
- c. King Claudius might thereby gain eternal
- d. Murder of a person praying is an unpardonable sin
- 6. Which of these best describes setting in a novel
- a. The place where an event takes place
- b. The time when an event takes place.
- c. The place and time of an event
- d. The background of an event

The next three questions are on Attahiru, Ahmed Yerima's play

- 7. The play starts with a
- a. Flashback
- b. Prayer
- c. Muezzin
- d. Dialogue
- 8. Caliph Attahiru invites Mallam because

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- a. Mallam has offended the caliph
- b. Mai Wurno needs to be talked to
- c. Attahiru wnts Mallam to explain the dream he had
- d. Mallam and Mai Wurno are friends
- 9. Caliph "You have spoken well. I agree with the Waziri's suggestions.

You shall both organize your men and build new well in the market.

That is our judgment

What informed this statement ?"

- a. Waziri's fight with the whiteman
- b. Waziri's disagreement with Sarkin Zango life
- c. The dispute between Caliph Attahiru and Prince Muhammed al Tahir
- d. The dispute between Sarkin Zango and Sarkin fatake.
- 10. A brief but witty expression is called:
- a. Song b. Epigram c. Enecdote d. Joke
- 11. Pastoral poetry refers to the poetic composition of Clergymen b. Friare c. Scops d. Shepherds
- 12. A literary composition that employs wit and humour to ridicule persons or institutions
- is Drama b. Satire c. Norella d. Clergy
- 13. In a tragedy, the moment when the protagonist suffers a reversal of fortune is known

as -

- a. Catharsis b. Exposition c. Anagnonsis d. Peripeteia
- 14. A five line poem that treats a nonsensical subject with humour is a
- a. Quartet b. Limerick c. Panegyric d. Sestet
- 15. Which of the following statements is most true about poetry
- a. The meanings of words are more important than their sounds
- b. The sounds of words are more important than their meanings
- c. The sounds of words are often more important than their meanings
- d. Sounds and meanings of words are of little consequence
- 16. The expression "coin of gold" in Naett, coin of gold is
- a. Personification b. Epithet c. Metonymy d. Metaphor
- 17. What figure of speech is "shining coal"? a. Paradox b. Irony c. Oxymoron paronomasia
- 18. The rhythm of the poem "Serenade" is a. Blue b. Jolting c. Jerky d. Measured
- 19. Which of these best defines exposition in drama?
- a. The author's own general introduction to the play
- b. The author's early exposure of his dramatis personae to conflict
- c. Introduction to the characters and the general problems with which the play deals
- d. The first performance of the play on stage

The next two questions are on an extract from a poem by Thomas Hardy, Read the lines carefully and answer the questions that follow:

We stood by a pond that winter day,

And the sun was white, as though chidden of God

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And a few leaves lay on the starving sod, .... They had fallen from an ash, and were grey. 20. The tone or mood of the speaker in the poem is:

a. Neutral
```

- b. Angry
- c. Happy
- d. Sad
- 21. "starving sod" here is:
- a. a metaphor
- b. a personification
- c. simile
- d. paradox
- 22. In Leopold Sedar Senghor's "I will pronounce Your name" Naeth represents
- a. Africa
- b. Senegal
- c. The poet's mother
- d. The poet's lover
- 23. In Ofeimun's "We Must Learn Again to
- fly" cumulus Symbolises:
- a. acloud
- b. old age
- c. sounded masses
- d. black hair

ANSWER KEY

1C 2 C 3A 4 A 5B 6 C 7 A 8 C 9D10B11DI2 B 13D 14 B 15 A 16D 17C18 B 19C 20 D 21 A 22D 23C

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CHRISTIAN RELIGIOUS KNOWLEDGE OBAFEMI AWOLOWO UNPJERSITY 2006 POST UME TEST

- 1. In Jesus teaching on the mount, the only justifiable reason for divorce is:
- a. Indolence b, InsubordinatIon
- c. Infidelity d. Infertility
- 2. According to John's Gospel, Lazarus was from: a. Jerusalem b. Teberias c. Bethany
- d. Galilee
- 3. Jesus's new commandment according to the Gospel of John is:
- a. Salvation
- b. Love c. Peace d. Spirit
- 4. The thief as described by Jesus comes to
- a. Destroy, kill and steal
- b. Destroy, steal and kill
- c. Kill, destroy and steal
- d. Steal, kill and destroy
- 5. The agony of Jesus in the Garden of Gethsemane is a
- a. Sign of abandonment
- b. Manifestation of human weakness
- c. Punishment
- d. Preparation for his death
- 6. Eutychus fell from the third storey to the ground when Paul prolonged his sermon at a.

Troas b. Ephesus

- c. Miletus d. Corinth
- 7. Charismatic leaders in the Book of Judges arose in Israel to
- a. Revive faith in Yahweh
- b. Rally the tribes together
- c. Lead Israel to battles
- d. Settle dispute
- 8. What did God create on the fifth day?
- a. The firmament b. The two great lights
- c. Water under the heavens
- d. Living creatures
- 9. Joshua and Caleb were from the tribe of a. Judah and Reuben
- b. Reuben and Dan
- c. Ephraim and Reuben
- d. Judah and Ephraim
- 10. Manahem, the son of Gadi reigned over Israel for
- a. Eight years
- b. Twenty Years c. Six months d. Ten years

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- 11. The death of Adonibezek in Bezek was a typical proof of
- a. Cowardice
- b. Nemesis c. Insanity d. absurdity
- 12. In order that Benjamin might be brought to Egypt, Joseph detained
- a. Reuben
- b. Levi c. Judah d. Simeon e. Zebulon
- 13. When Paul came to Rome, the first set of people to whom he preached were the
- a. Romans b. Jews
- c. Greeks d. Samaritans
- 14. The three sons of Noah were Shem, Ham and
- a. Lot b. Hirah c. Cain d. Japeth
- 15. The renomend interpreters of the Mosaic Law in the time of Jesus were the
- a. Sadducees b. Scribes
- c. Herodians d. Pharisees
- 16. The mother of Esau is
- a. Ruth b. Ester c. Rebecca d. Jezebel

"1 am to be gathered to my fathers; bury me with my fathers" (Gen 49:29).

- 17. Who was the speaker?
- a. Joseph b. Jacob c. Job d. James
- 18. When did he say this?
- a. When he was about to die
- b. When he was seriously sick
- c. When he offended God
- d. When his brother cheated him
- 19. What was his wish?
- a. He wanted to be buried at Canaan in the cave at Ephron
- b. He wanted to be buried at Tericho
- c. He wanted to commune with his ancestors
- d. He wanted to be close to his father
- 20. Who was authorized by god to go and liberate the Israelites from the Egyptian

bondage?

- a. Joshua b. Daniel c. Solomon d. Moses
- 21. The names of the two kings of Jericho destroyed by the Israelites during the conquest

were

- a. Adonija and Haggith
- b. Hion and Og c. Zadok and Benaiah d. Hiram and Jeroboam
- 22. Who is an atheist?
- a. Someone who does believe in God
- b. Someone who rejects completely the idea of a divine being
- c. Someone who believes that it is impossible to know if there is God or not

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- d. Someone who abhors religious people
- 23. What is meant by the Christian doctrine that God is Trinity?
- a. The idea started in Trinidad and Tobago
- b. God is three persons in one
- c. God is omnipotent
- d. God is the Holy Spirit

ANSWER KEY

- 1. C 2. C 3 B 4D 5 B 6B
- 7. A 8 D 9 D 10 A 11 B 12A
- 13. A 14 B 15 D 16C 17 B 18 A
- 19 A 20 B 21 A 22B 23 B

CHRISTIAN RELIGIOUS KNOWLEDGE

OBAFEMI AWOLOWO UNIVERSITY 2007 POST UME TEST

- 1. He shall save his people from their sins. Who is being referred to here?
- a. John the Baptist b. Elijah c. Elisha d. Jesus
- 2. The person who the Bible calls the son of consolation is:
- a. Barsabas b. Barabbas
- c. Barnabas d. Bathsheba
- 3. Who do people say the son of man is? Jesus asks this question to know people's
- a. Desire b. Demand c. Mind d. opinion
- 4. In peter's teaching, "God the proud and gives grace to the humble.
- a. Receives b. Relegates c. Resists d. Restores
- 5. The lesson which Jesus teaches in the parable of the Good Samaritan is that your

neighbor is:

- a. Only your friend b. Your next of kin
- c. A distant friend d. Anyone who needs your help
- 6. Amram and Jochebed gave birth to:
- a. Miriam b. Jedida c. Jethro d. Hur
- 7. The two Hebrew midwives instructed by pharaoh to kill the Hebrew male babies at

birth were:

a. Zipporah and Puah b. Puah and Miriam c. Shiphrah and Zipporah d. Shiphrah and

Puah

- 8. Israel went into Assyrian captivity in
- a. 71 AD b. 720 BC
- c. 7 22 BC d. 68AD
- 9. Daniel was delivered from the den of lions for all the following reasons except
- a. His holiness and faith
- b. His Kindness c. God's love for him
- d. God's mighty power
- 10. Which of the following carried Judah into captivity
- a. Pharaoh Neco of Egypt
- b. Goliath of Philistia
- C. Assyrians
- d. Nebuchadnezzar of Babylon
- 11. The last thing which Zedekiah saw before his eyes were removed was the
- a. Egyptian army
- b. Slaughter of all his sons
- c. City of Jerusalem

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- d. Feasting of the' children of Israel
- 12. The prophet who was with the exiles of 597 BC in Babylon was
- a. Moses b. Hosea c. Micah d. Ezekiel
- 13. The King of Persia who made it possible for the return of the exiles from Babylon

was

- a. Dairus b. Cyrus c. Zechariah d. Zerubabel
- 14. The meaning of Emmanuel is
- a. Laugther
- b. "For I draw him from water"
- c. God with us d. ThefearofGod
- 15. Bring your necks under the yoke of the King of Babylon and serve him and his people
- and live" Who gave this advice?
- a. Jeremiah b. Isaiah
- c. Ezekiel d. Amos
- 16. One of the following said: 'The Lion has roared, who will not fear?" The Lord has
- spoken, who can but prophesy?
- a. Nathan b. Jeremiah c. Amos d. Hosea
- 17. Where did Paul cure a slave girl who had a spirit of divination?
- a. Philippi b. Ephesus c. Athens d. Antioch
- 18. Joshua's first victory was over the people of
- a. Ai b. Gibeon c. Gilgal d. Jericho
- 19. Josiah's reign was popular because of his
- a. Allies b. Victory c. Violence d. Reforms
- 20. The meaning of Ephphatha is
- a. Be opened b. Be still
- c. Be silent d. Little girl, arise
- 21. Who baptized the Ethiopian eunuch?
- a. Paul b. Peter
- c. Philip d. Rufus
- 22. Moses fled from Pharaoh at the age of
- a. 45 b. 40 c. 85 d. 120
- 23. Which of the following Prophets was described as the weeping Prophet?
- a. Amos b. Ezekiel
- c. Jeremiah d. Zephaniah
- 24. Who was the Priest that confronted Uzziah in the temple
- a. Zadokaul b. Phineas
- c. Azariah d. Aaron

ANSWER KEY

- 1. E 2. C 3 C 4 B 5 D6A
- 7. A 8 B 9A10 D11B12D

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13. B 14 C 15 C 16 D 17 B 18D 19 D 20 D 21 C 22 B 23 C 24-

OBAFEMI AWOLOWO UNIVERSITY 2008 POST UME TEST CHRISTIAN RELIGIOUS KNOWLEDGE

1. Name the place Christian religious people look up to find the truth about the nature of

God.

- a. In the sacred scripture
- b. In the religious leaders
- c. In the church
- d. In their conscience
- 2. What are the lessons of Jesus conversation with the Samaritan woman to you? (Jn 1: 7
- 15).
- a. By his action of chatting with the woman, Jesus broke the cultural barriers of his day
- b. Christian in Nigeria must break cultural or ethnic barriers and share Christ's love with

others irrespective of cultural and ethnic differences

- c. He bridged the social gap between Jew Samaritan animosity
- d. He bridged the gender gap between Jewish-maleand gentile female differences
- 3. Explain why Jesus was identified as the Lambby John (Jn 1:29)
- a. Lamb of God is a figurative language which describes Christ sacrificial mission in the

world

- b. He is being compared to the Passover lamb that would atone for the sins of all
- c. Because the lamb is attentive to his owner
- d. It shows patience, meekness, gentleness and innocence
- 4. Who do people say the son of man is? Jesus asks this question to know people's
- a. Desire b. Demand
- c. Mind d. Opinion
- 5. In peter's teaching, "God the proud and gives grace to the humble
- a. Receives b. Relegates c. resists d. restores
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- b. Puah and Miriam
- c. Shiphrah and Zipporah
- d. Shiphrah and Puah
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- 16. Israel went into Assyrian captivity in a. 71 AD b. 720 BC c.722BC d. 68AD
- 17. The meaning of Emmanuel is
- a. Laughter
- b. "For I draw him from water"
- c. God with us d. The fear of God
- 18. Bring your necks under the yoke of the king of Babylon and serve him and…. and
- live" who gave this advice?
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- b. Slaughter of all his sons
- c. City of Jerusalem
- d. Feasting of the children of Israel
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- a. 45 b. 40 c. 85 d. 120
- 22. The meaning of Ephphatha is
- a. Be opened b. Be still
- c. Be silent d. Little girl, arise
- 23. One of the following said: "The Lion has roared, who will not fear?" The Lord has

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- a. Nathan b. Jeremiah
- c. Amos d. Hosea -
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- a. Paul b. Peter c. Philip d. Rufus
- 25. Joshua's first victory was the people of
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- 26. Josiah's reign was popular because of his
- a. Allies b. Victory c. Violence d. reforms
- 27. Where did Paul cure a slave girl who had a spirit of divination?
- a. Philippi b. Ephesus c. Athens d. Antioch

ANSWER KEY

- 1. A 2. C 3A4 C5 B6D
- 7. D 8 C 9 B 10 A 11 D 12D
- B 17 C 18C
- D 23 D 24C

OBAFEMI AWOLOWO UNWERSITY CHRISTIAN RELIGIOUS KNOWLEDGE

2009 POST UME TEST

- 1. Before Moses died, God appointed to succeed him
- a. Aaron b. Balaam c. Joshua
- d. Manasseh e. Eleazar
- 2. Those bitten by the fiery serpent were treated by a
- a. Drinking from the Red sea
- b. Fasting for seven days
- c. Looking at the bronze serpent
- d. Call upon the lord e. Repent
- 3. "Let his habitation be made desolate, and let there be no one to live in it". Who is

being referred to here?

- a. King Saul b. Judas Iscariot c. Stephen d. Barnabas e. Mathias
- 4. The proconsul when Paul arrived in Corinth was called
- a. Festus b. Pontius c. Pilate d. Galileo
- e. Agrippa f. Felix
- 5. "Now I know that Lord has sent his angel to deliver me Who said this?
- a. Joseph
- b. Moses c. Paul
- d. Peter e. Stephen
- 6. The flood lasted when Noah was in the Ark for a. Two weeks b. Ten weeks
- c. Ten days d. A hundred days e. A hundred and Fifty days
- 7. Joshua's first victory was in
- a. Al b. Gibeon c. Jordan d. Gilgal e. Jericho
- 8. 'There shall be neither dew nor rain this year except by my word'. Who said this?
- a. Moses b. Pharaoh c. Elijah d. Esther e. Paul
- 9. In the parable of the sower, the seeds on the ground represent those who
- a. Accept and live by the word of God
- b. Feed the poor
- c. Have and love riches
- d. Give alms in market places
- e. Preach the word of God
- 10. According to Psalm 51, the sacrifice acceptable to God is
- a. A clean heart b. Obedience
- c. A blemishless lamb
- d. A broken spirit
- e. Head flowing with oil

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- 11. Which Prophet cried thus "woe is me" For lost, for I am a man of unclean lips
- a. Hosea b. Jeremiah c. Isaiah d. Micah e. Haggai
- 12. Hosanna means
- a. Ride on in majesty
- b. Ride on in glory
- c. Ride on to die
- d. Ride on to Calvary e. Save now
- 13. The seven deacons were appointed to
- a. Replace the twelve
- b. Lead the church in Jerusalem
- c. Help in the distribution of Food
- d. Preach the Gospel
- 14. Which Prophet encouraged Jeroboam 1 to revolt at the stage?
- a. Hosea b. Jeremiah c. Isaiah d. Micah e. Haggai
- 15. Hosanna means
- a. Ride on in majesty b. Ride on in glory
- c. Ride on to die d. Ride on to Calvary
- e. Save now
- 16. The seven deacons were appointed to
- a. Conduct a mission to the Gentiles
- b. Replace the twelve
- c. Lead the Church in Jerusalem
- d. Help in the distribution of food
- e. Preach the Gospel
- 17. Which Prophet encouraged Jeroboam 1 to revolt at the initial stage?
- a. Macaiah b. Jeremiah c. Nathan
- d. Ahijah e. Joel
- 18. "This lad is gone and where shall I go ". Who is being referred to hear
- a. Isaac b. Joseph c. Peter d. Salas e. Elijah
- 19. A would be apostle who puts his hand to the plough and looks back lacks
- a. Faith b. Kindness c. Repentance
- d. Total commitment e. Hope
- 20. In the case before Solomon over the dead and the living child, the mother of the dead
- child supported
- a. Giving the living child to her opponent
- b. Killing the living child
- c. Joint ownership of the living child
- d. King Solomon having the Living child
- e. State ownership of the child
- 21. Who is reputed for pulling down the altar of Baal at the risks of annoying his father

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- a. Joseph b. Jesse c. Gideon d. Samuel e. Samson
- 22. Those inspired by God to lead the tribes of Israel in battle were the
- a. Judges b. Captains of the Guard c. Priests d. Prophets e. Levites
- 23. In order that Benjamin might be brought to Egypt, Joseph detained
- a. Reuben b. Levi c. Jacob d. Simeon e. Zebulon
- 24. The conversion of Paul was made possible by a. Simeon b. Zacchaeus
- c. The risen lord d. Mathew e. Barnabas
- 25. God told Samuel that He would punish Eli because he
- a. Did not correct his son's sinful behaviour
- b. Did not offer sacrifice as the law required
- c. Did not warn the people of Israel to stop sunning d. Warned his sons against rape and

drunkenness e. Offered sacrifices to idols

- 26. The sun stood still when
- a. Moses led Israel across the Red Sea
- b. Jericho fell to the army of Joshua
- c. Noah came out of the ark
- d. Joshua defeated the Amorites at

Gideon

- e. Moses came down with the law
- 27. In the trade treaty between King Solomon and Hiram of Lebanon Solomon was

supply Wheat and oil while Hiram was to supply

- a. Grains only
- b. Precious stories
- c. Wheat advice
- d. Timber
- e. Silver
- 28. What did God create on the 6th day
- a. The firmament
- b. Light
- c. Dry land and Sea
- d. Man and living creatures
- e. The Sun, Moon and stars

OBAFEMI AWOLOWO UNIVERSITY 2010 POST UME TEST CHRISTIAN RELIGIOUS KNOWLEDGE

1. For which of the Prophets of God did the Bible record explicitly to have abandoned an

agribusiness for a call to serve God?

- a. Elisha b. Ezekiel
- c. Elijah d. Obadiah
- 2. Why did David spare the life of Saul at Ziph?
- a. He recognized God's anointing on Saul
- b. Saul was also an Israelite
- c. He did not want bloodshed
- d. He was Saul's in Law
- 3. Deborah was a judge when Israel was under the yoke of
- a. Moab b. Midian c. Canaan d. Philistine
- 4. The treatment of those bitten by fiery serpent was to
- a. Drink from the Red Sea
- b. Look at the bronze serpent
- c. Fast for seven days
- d. Call upon the Lord
- 5. Which of these was detained by Joseph in order that Benjamin might be brought to

Egypt?

- a. Reuben b. Levi c. Judah d. Simon
- 6. In the Biblical account of creation, man was permitted to
- a. Plant fruit trees for food
- b. Water the garden
- c. Make garment of hides and skin
- d. Name all the creatures
- 7. Each of the spies sent out by Moses on God's command to report on the nature of the

promised land was a

- a. Greatwarriorb. Wise judge c. Priest d. Leader in his own tribe
- 8. God revealed to Samuel that he was going to punish Eli because he
- a. Did not correct his son's sinful behaviuour
- b. Did not offer sacrifice as the law required
- c. Did not warn the people of Israel to stop sinning
- d. Warned his sons but did not punish them
- 9. The sun stood still when
- a. Moses led the Israelites out of Egypt
- b. Jericho fell to the army of Joshua
- c. Noah came out of the ark

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- d. Joshua defeated the Amorites at
- Gideon
- 10. When was this statement made?' I repent that I made Saul King'
- a. At the anointing of Saul
- b. When Saul failed to pray
- c. When Saul disobeyed God over Amalek d. When Saul finished the morning offering
- 11. The commander of David's army was
- a. Abner b. Joab
- c. Abiathar d. Adonijah
- 12. What was the sin of David that involved Bathseba?
- a. Murder b. Adultery c. Dishonesty d. Arrogance
- 13. What is the meaning of Emmanuel?
- a. Son of Emmaus
- b. God is our redeemer
- c. God with us d. Saviour
- 14. What specific reply did John the Baptist give to the soldiers during his preaching
- a. Collect no more than is appointed you b. Do not begin to say to yourselves we have

Abraham as our father

- c. Bear fruits that befit repentance
- d. Be content with your wages
- 15. Jesus taught that one should make friends quickly with one's
- a. Enemy b. Neighbour c. Master d. accuser
- 16. the Pharisees and the Scribes accused the disciples of Jesus of transgressing the

tradition of the elders because they

- a. Did not regard synagogue rules
- b. Did not pray before meals c. Ate with unwashed hands
- d. Disobeyed the elders
- 17. If anyone would be first, he must be last of all and servant of all what does this saying
- of Jesus teach?
- a. Endurance b. Lack of mobition
- c. Humility d. Relaxation
- 18. Which religious groups asked Jesus about payment of taxes to Ceasar?
- a. Pharisees and Sadducces
- b. Pharisees and Herodians
- c. Sadducces and Herodians
- d. Herodians and Zealots
- 19. To whom was the body of Jesus Christ given for burial after his death?
- a. Nicodemus the Pharisee

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- b. Simon of Cyrene
- c. Simon the disciple
- d. Joseph of Arimathea
- 20. Paul was accused of apparently being a preacher of foreign divinities in Athens

because he preached Jesus and the

- a. Cross b. Law c. Resurrection d. Second coming
- 21. What specifically makes Samson a unique Prophet of God?
- a. He was a Nazarene
- b. He loved honey
- c. He killed many at his death
- d. He spoke with power in riddles
- 22. It is not the sound of shouting for victory, o the sound of the cry of defeat, but the

sound of singing that I hear". When was this statement made?

- a. At the consecration of the Israelites
- b. At the crossing of the Red Sea
- c. During the fall of Jericho d. In a strange worship of a god
- 23. 'Blessed be the Lord God of Israel'is a hymn of praise by
- a. The Virgin Mary at the Annunciation
- b. Zachariah at the birth of John the Baptist
- c. Simeon at the presentation of Jesus in the temple
- d. Elizabeth at the visit of Mary
- 24. The Shema emphasizes the
- a. Unity of God
- b. Richness of the spirit of God
- c. Omnipotency of God
- d. Crucial role of Israel in the world
- 25. The expression of dry bones in Ezekiel refers to'
- a. An Israelites proverb
- b. The whole house of Israel
- c. The slain in the valley
- d. Sinful Israelites and Judean

FINANCIAL ACCOUNTS & COMMERCE FINANCIAL ACCOUNTS OBAFEMI AWOLOWO UNIVERSITY, 2010 POST UME TEST

- 1. The bad debt account is closed by transferring the balance to
- (a) credit of capital account
- (b) debt of profit and loss
- (c) debit of the debtor' personal account
- (d) credit of profit and loss account
- 2. A credit note from a supplier would first e entered in the (a) purchase book (b)sales
- book (c) returns inward book (d) return outward
- 3. Where a proprietor withdraws cash from the business for his private use, the entries

would be (a) credit cash account, debit proprietor's account (b) credit proprietor' account,

debit cash account (c) credit proprietor' account, debit drawing account (d) credit cash

account, debit drawing account

4. Which of the following is a long term liability? (a) bank overdraft (b) bank deposit (c)

goodwill (d)debenture

5. Which of the following is a function of the sales journal? (a)it records both cash and

credit sales (b) it shows the balance in the sales account (c) it records credit sales only (d)

- it shows the aggregate balances in the debtor's lodge
- 6. Which of the following is the most liquid? (a)stock (b)debtor (c)machinery (d) loose

tools

- 7. A debt balance on a bank statement indicate, that the (a) bank is a debtor to the
- customer (b) customer is a debtor to the bank (c) bank is not a debtor to the customer (d)

customer is not a debtor to the bank

8. At the end of a trading period, wages due will be (a) debited to trading account and

shown as a current liability (b) credited to profit and loss account and shown as a current

liability (c) credit to trading account and shown as a current asset (d) debited to profit and

loss account and shown as a current liability

- 9. Which of the following is not an asset?
- (a) goodwill (b) general reserves (c) debtors (d) prepaying

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10. A company's profit and loss account for a period is prepared by (a) deducting total

expenses from total revenues (b) deducting total cash payments from total revenue (c)

deducting all outflows of funds from all inflow of funds (d) balancing its receipts and

payment

11. The journal is a book (a) of prime entry into which all transactions are entered before

posting (b) kept by journalists for reporting events (c) of prime entry into which posting

are made from the ledger (d) of analyzing major events

12. The receipts and payments of a club is the same as (a) profit and loss account (b)

trading account (c) cash book (d) control account

- 13. In a balance sheet, bank overdraft is
- (a) current asset (b) fixed asset (c) long term liability (d) current liability
- 14. Money set aside for the servicing of businesses overheads is referred to
- (a) capital expenditure (b) capital receipt
- (c) revenue expenditure (d) revenue receipts
- 15. Money spent on buying plots of land by a firm is (a) capital expenditure
- (b) capital

receipt (c) revenue expenditure (d) revenue receipts

16. Prepad expenses is an item in (a) fixed assets (b) current assets (c) current liability (d)

long-term loan

17. Final accounts consists of (i) Cash book (ii) Trading account (iii) Profit and loss

account (iv) balance sheet (a) i only (b)1 and ii only (c) iii and iv only (d)ii and iii only

- 18. Trading account is prepaid to ascertain (a) gross profit (b) net profit
- (c) gross profit or

gross loss (d) net profit or not loss

19. A statement that shows the financial position of a business is (a) profit and loss

account (b) trading account (c) statement of income (d) balance sheet

20. Prepaid wages is an item in the (i) balance sheet (ii) profit and loss account (iii)

Trading account (iv) cash account

- (a) I, ii and iii only
- (b) I and iii only
- (c) I and ii only

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- (d) iii and iv only
- 21. Partnership is a business owned and controlled by (a) two member (b) two to ten

persons (c) two to twenty persons (d) two to five persons

22. If a machine cost N2000.00 and its estimated life span is 10 years and its residuals is

N500.

The yearly value of depreciation is (a) N250.00 (b) 180.00 (c) N150.00 (d) N130.00

23. Bad debt is also known as (a) unpaid debt (b) irrecoverable debt (c) payable debt (d)

current debt

- 24. Bad debt is an item in (a) Trading, profit and loss account (b) consignment account
- (c) balance sheet (d) Receipt and expenditure account

ANSWER KEY

1. C 2D 3A 4D 5C 6A

7A 8D 9B 10 - 11A 12C

13D 14B 15A 16C 17D 18C

19B 20B 21C 22C 23B 24B

FINANCIAL ACCOUNTS & COMMERCE FINANCIAL ACCOUNTS OBAFEMI AWOLOWO UNIVERSITY, 2008 POST UME TEST

1. 'Caveat emptor' as a commercial legal word means (a) let the seller beware (b) let the

producer beware (c) let the buyer be awarded (d) let the buyer beware

2. The main feature of a supermarket is the sales of (a) office equipment only (b) food

stuff only (c) general house hold goods (d) building materials

- 3. The ship that is used as a sea taxi is called (a) linen (b) tramps (c) tankers (d) coasters
- 4. Which of the following is NOT a reward for labour (a) profit (b) salaries (c) Wages
- (d)allowances
- 5. The person who calculates premium, sums assured and surrenders value in insurance

contact is called (a) accountant (b) actuary (c) value (d) auditor

6. Under the law of insurance, exemption clauses (a) protect the insured against the

insurance company (b)protect the insurance company (c)protect the third party under the

contract (d) enable the insured to claim on the insurance company

- 7. In the contract of sale of goods, 'let the buyer beware' is signified by (a) del credere
- (b) caveat vendetta (c) caveat emptor (d) res ipsa loquitor
- 8. The main purpose for establishing a public corporation is to (a) provide employment
- (b) provide essential (c) make profit (d) establish a monopoly
- 9. Into which of the following two broad areas can trade be divided (a) Home and foreign

trade (b) Whole and retail trade (c) Imports and exports (d) Visible and invisible trade

10. Which of the following is not rue of sole proprietorship? (a) It has a separate legal

entity (b) It has unlimited liability (c) It has slim chances of expansion (d) It can convert

into company

11. Commerce means (a) the creation of utility (b) exchange of goods and services (c)

exchange and distribution of goods and services (d) exchange and distribution of goods

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12. The most common means of transport in the riverine area is (a) bus (b) canoe (c)

train(d) helicopter

13. Which of the following cheques could not be cashed across the counter? (a) Crossed

cheque (b) Order cheque (c) Certified cheque (d) bearer Cheque

14. In marketing, any good or service that satisfies the consumer is called a (a) place (b)

product (c) promotion (d) price

15 Which of the following is a non consumable item in the office? (a)

Furniture (b) loose

sheet (c) Office pins (d) file tags

16. One of the obstacles to achieving the objectives of ECO WAS is (a) lack of common

currency (b) colonial linkage (c) sovereignty of states (d) language difference

17. One of the main objectives of establishing he Niger river basin commission was

to(a)embark on a comprehensive survey of the available water resources (b)carry out

research for the development of fresh water fisheries (c) develop infrastructures to

facilitate economic activities (d) promote trade among member-states to improve

standards of living

18. The basic function of the Nigerian Port Authority is to (a) ensure that the right caliber

of personnel is employed at the ports (b) coordinates and regulate the activities of

shipping lines (c) facilitate and control the movement of goods and services into and out

of the country (d) coordinate the activities of all the seaports in he country 19. In Nigeria, the body that ensures that its members operate according to their

professional ethics is the (a) SON (b) NPF (c)MAN (d) NAFDAC

20. The current highest decision-making body on privatization and commercialization of

public enterprises in Nigeria is the (a) National council on Privatization (b) Securities and

Exchange commission (c) Nigeria Investment Promotion Commission (d) Bureau of Public Enterprises.

21 The principle of indemnity is NOT applicable to (a)life assurance (b)accident

insurance (c) fire insurance (d) marine insurance

22. The advertising medium which combines sight and sound is the (a) radio (b)

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television (c) print media (d) poster

23. The closure of the unregistered patent medicine stores is geared toward sound (a)

economic environment (b) social environment (c) physical environment (d) legal environment

24. Recommendations made by the central bank to the commercial banks in respect of

their lending policy is known as (a) directives (b) Moral suasions (c)Advisory notes (d)

Consolidation

- 25. Way bill is a document giving details of goods sent by (a) Public vehicle, train and air
- (b) Train and ship (c) Ship alone (d) air alone
- 26. An association of the principal business concerns in an area is referred to as (a)

Article of association (b) Memorandum of association (c) chamber of commerce (d)

Chamber of companies

27. Commission salesmen include the following except (a) Factors (b) brokers (c) Del

credere agents (d) Partners

ANSWER KEY

1. D 6. C 11C 16A 21B

2. C 7. C 12B 17A 22B

3. D 8. B 13A 18C 23D

4 D 9. A 14B 19C 24C

5. B 10 A 15A 20C 25C

26. C 27 C

FINANCIAL ACCOUNTS & COMMERCE FINANCIAL ACCOUNTS OBAFEMI AWOLOWO UNIVERSITY, 2009 POST UME TEST

1. Which of these is a form of sales promotion? (a) Advertising on radio (b)Offering free

samples (c) Distributing printed materials (d) advertising on internet

- 2. Which of the following has the shortest effect on the consumer? (a) Fashion (b) Innovation (c) Fad (d) Attribute
- 3. The business in the stock exchange is characterized essentially by (a) dealing (b)

Brokage (c) Speculations (d) transactions

4. The insurance policy which provides full cover against all risk at sea is known as (a)

policy with particular average (b) policy free of particular average (c) Marine freight

insurance (d) marine voyage policyinsurance

5. A major liability of a commercial bank arises from (a) customer's deposit (b) loans and

advances (c) Overdrafts (d) staff allowances

6. In the channel of distribution, which of the following sets is entirely is entirely made

up of middle men? (a) wholesale, retailer and agents (b) Manufacturers, consumers and

retailer (c) wholesales, agents, and consumers (d) Retailer, manufacturer, and wholesale

- 7. Most foreign trade transaction are paid through the use of (a) central bank cheques
- (b) bank draft drawn by commercial banks on their foreign branches (c) Irrevocable and

confirmed letter of credit (d)Letter of credit authenticated by the embassies of the

respective countries.

8. The merger of two companies producing same type of produce is an example of (a)

vertical integration (b)Horizontal integration (c) Integral merger (d) An acquisition

9. Given

Opening stock 40,000

Purchases 115,000

Closing stock 60,000

Sales 250,000

What is the cost of goods sold? (a)N1 55,000 (b)N95,000 (c) N50,000 (d)N30,000 10. The business organization in which shareholders have equal votes is (a) Sole

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proprietorship (b) Partnership (c) Cooperative (d) Limited liability company 11. One type of investment that has a variable income is (a) Debentures

(b)Preferred

shares (c)Government bonds (d) Ordinary shares

- 12. A public limited company can raise long term loan through (a) The capital market
- (b) The money market (c) Bank draft (d) Discount houses
- 13. Factorizing is a trade debt term used when

the agents buys all the trade debts of the (a)

Importer (b) Exporter (c) Nations (d)

customers

- 14. Stevedores as a term in foreign trade means men who (a) inspect goods in the ships
- (b) Import goods by ships (c) Collect duties (d) Load and unload ships
- 15. A close indent is an instruction to an agent to (a) Order goods from a particular

manufacturer (b)Order goods from any manufacturer (c)sell goods in any form (dO Sell

goods to a certain firm

- 16. Profit expressed as a percentage of the cost of good is referred to as (a) margin
- (b) markup (c) gain percentage (d) gross profit
- 17. The main advantage of a sole trader is its freedom to (a) employ anyone he likes
- (b) seek advice from any source (c) take quick decision (d) Plough all the profit into the

business

18. In the case of voluntary liquidation of a business, the receiver is appointed by (a)

Creditors (b) Debtor (c) Director (d) Shareholder

- 19. When a company was more of loans than equity to finance its business, the company
- is said to be (a) Bankrupt (b) Solvent (c) Highly geared (d) In a strong position 20. Right issue means the (a) Issue of shares to the directors of company on favourable
- firms (b)issue of shares of a company only to the founders of the company (c)Right of
- shareholders to vote on any issue (d) Issue of shares to shareholders on favourable terms
- 21. A term which indicates that a share is temporarily suspended is (a) exdividend (b)

un-dividend (c) bond (d) Stock

22. Excise duties are paid on goods that are (a) Imported into the country

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- (b) manufactured within the country (c) exported to other countries (d) Kept in bonded
- warehouse.
- 23. The practice by which an insurance company accepts a very large risk and later shares
- it with other insurance company is called (a) subrogation (b) contribution (c) re-insurance
- (d) indemnity
- 24. Goods imported to a country for the purpose of re- exporting attracts a rebate known
- as (a)customer drawback (b)export royalty (c)incentive (d)export rebate 25. The nominal value of a share as specified in the memorandum of Association and the
- share certificate is the (a) Discounted value (b) Stock value (c) Face value (d) Par value

ANSWER KEY

- 1. B 6. C 2. C 7. A 3. B 8. B
- 11 C 16 B 21 A 12 A. 17 C 22 D 13 D 18 A 23 B 4 A 9. B 5. B 10 C
- 14 B 19A 15 A 20 B 24 A 25 C

GENERAL KNOWLEDGE OBAFEMI AWOLOWO UNIVERSITY, 2010 POST UME TEST

- 1. Democracy day is celebrated in Nigeria on (a) Oct., 1 (b) Jan. 12 (c) May 29 (d) June
- 12.
- 2. The first Africa country to host FIFA world cup is(a) Nigeria (b) Egypt
- (c) Morocco
- (d) South Africa
- 3. How many members make up house of Representative in Nigeria? (a)270 (b) 109 (c)
- 360 (d) 359
- 4. How many members make up senate in the upper arm of the house of assembly?
- (a) 100 (b) 108 (c) 109 (d) 110
- 5. Into how many geopolitical zone is Nigeria divided? (a) 4 (b) 5 (c) 6 (d) 7
- 6. After recapitalization of banks in Nigeria, the number of banks become (a)21 (b) 22 (c) 25 (d) 24
- 7. Abuja became Nigeria Federal capital territory in
- (a) 1991 (b) 1990 (c) 1989 (d) 1988
- 8. The motion for self governance was moved in Nigeria by
- (a) Chief Anthony Enaoro (b) Dr. Nnamdi Azikwe (c) Chief Obafemi Awolowo (d) Aihaji Tafawa Balewa.
- 9. The newest state country in Africa is (a) Malawi (b) South Africa (c) Southern Sudan
- (d) Sharawa Republic
- 10. When was Hosen Mubarak of EGYPT removed from office as president?
- (a) Jan 2011 (b) Feb. 2011 (c) March, 2011
- (d) April, 2011
- 11. The first civilian president that died in office in Nigeria is
- (a) Sir Tafawa Balewa (b) Gen. Aguyi Ironsi
- (c) Gen Murtala Muhammed (d) Aihaji Umar
- Yar' adua
- 12. Millenium development goals was grouped into how many points?
- (a) 6 (b) 7 (c) 8 (d) 9
- 13. Who was the first Military head of state in Nigeria?
- (a) Gen. Olusegun Obasanjo
- (b) Gen Muritala Muhammed
- (c) Gen. Aguiyi Ironsi
- (d) Gen Ibrahim Babangida
- 14. Umar Musa Yar' dua governance was anchored on (a) 8 point agenda (b) 7 points
- agenda (c) 6 point agenda (d) 10 point agenda

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- 15. How many local government is in Nigeria?
- (a) 774 (b) 744 (c) 784 (d) 794
- 16 Who is the First female president in Africa?
- (a) Hon. Olubunmi Ette (b) Chief (Mrs) Funmilayo Kuti (c) Dr. (Mrs) Ngozi Ewenla (d)

Mrs Ellen Johnson Sirleaf

17. Nigeria flag was designed by (a) Mr Ama Onabolu (b) Prof Wole Soyinka (c) Prof

Chinua Achiebe (d) Mr Taiwo Akinkunmi.

- 18. 2010 CAF African footballer of the is awarded to
- (a) Samuel E' to of Cameroum
- (b) Dj Drogba of Cote Divore (c) Mikel Obi of Nigeria (d) Gyan of Ghana.
- 19. What is the currency of India? (a) Rupees (b) Dollar (c) Pounds sterling (c) Cfan (d)

Naira.

20. Coal is mined in in Nigeria. (a) los (b) Enugu (c) Oloibiri (d) Igbeti.

ANSWER KEY

1C 6 C 11 D 16 D 2D 7 A

12 C 17 D 3. C 8 A 13 C 18 A

4C 9 C 14 B 19 A 5C 10D

15 A 20 B

SECTION B

1. What natural product has been used as means of exchange long time? (a) money (b)

Dollar (c) Salt (d) Cowry

- 2. How many of the earth surface in percentage is covered with water? (a) 10% (b) 29%
- (c) 50% (d) 71%
- 3. How much of the earth surface (including the rocks, mountain, valley and other

physical features) in percentage is covered with land? (a) 10% (b) 29% (c) 50% (d) 71%

- 4. What is the smallest planet in our solar system called? (a) mercury (b) mars (c) Venus
- (d) earth
- 5. Which language is spoken in Sicily? (Greece (c) Washington D.C (d) United Kingdom
- 12. How many edge has a cube? (a) 4 (b) 9 (c) 12 (d) 16
- 13. Which continent has the coldest climate? (a) Antarctica (b) Africa (c) Europe (d) Asia
- 14. Which mountain range separate Europe from Asia? (a) The climanjaro (b) Everest (c)

The Urais (d) Uraniurn

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15. What does the word "EMIR" means? (a) king (b) royalty (c) Prince in Arabic (d)

Throne

- 16. Which channel connect the Atlantic ocean with the pacific ocean? (a) Banana channel
- (b) panama channel (c) Palima channel (dl oceanic channel
- 17. When was telephone first invented? (a) 1860 (b) 1861 (c) 1862 (d) 1862
- 18. Who invented the first telephone? (a) Charles Darwin (b) Phillip Reis (c) Einstein (d)

Michael Faraday

- 19. Cairo is the capital of which country. (a) Morocco (b)Egypt (c) Tunisia (d) Libya
- 20. Lima is the capital of which country (a) Peru (b) China (c) Chile (d) Mexico
- 21. Barometer is used to measure (a) the atmospheric air (b) the atmospheric pressure (c)

temperature (d) volume

- 22. At which temperature will pure water be transformed to steam (a) 90° C
- (b) 100° C
- (c) 110° C(d) 115° C
- 23, What is a skyscraper? (a) a mountain (b) a bird (c) a very high building
- (d) a tall tree
- 24. Which is the smallest continent? (a) Australia (b)Africa (c) Artic & Arctatical (d)

Africa

- 25. Which of the following gases is used to fill balloon? (a) Oxygen (b) carbon IV oxide
- (c) Helium (d) Nitrogen
- $26. \ \,$ The election into the National assembly, already schedule to hold on the 2 April, 2011
- was shifted to (a) 4 April (b) 5th April (c) 7th April (d) 9th April
- 27. Dr. Goodluck Jonathan was sworn in as the acting president in Nigeria on the . . . (a)
- 10th Feb., 2010 (b) 11[h feb., 2010 (c) 12th feb., 2010 (d) 13h Feb., 2010
- 28. Which country is hosting 2014 world cup? (a) USA (b)Argentina (c) Brazil (d)

Germany

29. Who is the INEC chairman for the 2011 general election? (a) Prof. Maurice Iwu (b)

Prof Wole Soyinka (c)Prof Attairu Jega (d) Prof Chinua Achibe

- 30. Who was the senate president from June 2007 to june 2011 in Nigeria upper legislative chamber? (a) David Mark a) Spanish (b) English (c) Italian (d) Latin
- 6. What is the name of the famous mountain in Rio de Janeiro! Brazil (a) Salt loaf

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mountain (b) Sugar loaf mountain (c) Sand mountain (d) marble mountain

7. What is the speed of light? (a) $3 \times 109 \text{ m/s}$ (b) $3 \times 108 \text{ rn/s}$ (c) $3 \times 105 \text{ rn/s}$ (d) 3×106

rn/s

- 8. Which continent is largest on earth? (a) Africa (b) Europe (c)Asia (d)
- 9. How many months of the year have 31 days? (a) 6 (b)7 (c) 8 (d) 9
- 10. What are people who do not eat protein from animal called? (a) Omnivorous (b)

Carnivorous (c) vegetarian (d) vegatis

11. From where is the Olympic fire sent out to the Olympic games every 4 years? (a)

Abuja (b) Greece (c) Washington D.C (d) United Kingdom

- 12. How many edge has a cube? (a) 4 (b) 9 (c) 12 (d) 16
- 13. Which continent has the coldest climate? (a) Antarctica (b) Africa (c) Europe (d) Asia
- 14. Which mountain range separate Europe from Asia? (a) The climanjaro (b) Everest (c)

The Urais (d)Uraniurn

15. What does the word "EMIR" means? (a) king (b) royalty (c) Prince in Arabic (d)

Throne

- 16. Which channel connect the Atlantic ocean with the pacific ocean? (a) Banana channel
- (b) panama channel (c) Palima channel (dl oceanic channel
- 17. When was telephone first invented? (a) 1860 (b) 1861 (c) 1862 (d) 1862
- 18. Who invented the first telephone? (a) Charles Darwin (b) Phillip Reis (c) Einstein (d)

Michael Faraday

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Nafada

ANSWER KEY

1C 6 B 11 B 16 B 21 B 20

7 B 12 C 17 B 22 B 3. B 8 C

13 A 18 B 23C 4A 9 B 14 C

19 B 24A 5C 1D 15C 20 A

25 C 26D 27C 28 C 29 C 30A

SECTION C

1. The vice-president in Nigeria between 1979-1983 is (a) Dr. Joseph Wayas (b) Dr. Alex

Ekwueme (c) Aihaji bashiru Tofa (d) Chief M.K.O Abiola

- 2. A principle that advocate total equality of members of a society is called....
- (a) Communalism (b) egalitarianism (c) Totalitarianism (d) Oligarcy
- 3. The governor of oli western region who died in a military coupwith the visiting head

of state in 1966 was (a) Lt. Col. B. S. Dimka (b) Col. Shittu Alao (c) Lt. Col. Adekunle

Fajuyi (d) Col. Ibrahim Taiwo

- 4. The popular means of transportation during the trans-Sahara trade was the (a) donkey
- (b) horse (c) camel (d) mule
- 5. Which was the general purpose currency in pre-colonial Nigeria? (a) cloth (b) salt (c)

copper (d) cowry

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6. General Murtala Muhammad was assassinated in a coup led by (a) Lt. Col. Kaduna

Nzeogwu (b) Col. Joe Garba (c) Lt.Col. B.S. Dimka (d) Major Gideon Orkar

7. The twenty one state structure came into being in Nigeria during the rule of (a) Gen.

Murtala Muhammad (b) Major Gen. Aguiyi Ironsi (c) Gen. Olusegun Obasanjo (d) Gen.

Ibrahim Babangida

8. The colony of Lagos and protectorate of southern Nigeria were amalgamated to

become the colony and protectorate of southern Nigeria in...(a) May 1900 (b) May 1902

- (c) May 1905 (d) May 1906
- 9. The first African and only Nigerian to win nobel prize in Literature is (a) Prof.Chinua

Achebe (b) Chris Okigbo (c) Prof. Wole Soyinka (ci) Prof. Akin wumi Ishola

- 10. How many Rivers is in Africa?. (a) 6 (b) 7 (c) 8 (d) 9
- 11. Civil war broke out in Nigeria on
- (a) Jan., 1967 (b) Feb., 1967 (c) May, 1967
- (d) July, 1967
- 12. What is the third planet of the solar system? (a) mercury (b) Mars (c) earth (d) venus
- 13. The solar system is made up of how many planets. (a) 10 (b) 9 (c) 8 (d) 7
- 14. What is the capital of Gombe state in Nigeria? (a) Goje (b) Gombe (c) Dutse (d)

Damaturu

- 15. When was Ekiti state established? (a) 1990(b) 1991 (c) 1995 (d) 1996
- 16. According to 2006 Censure, which state is the most populous in Nigeria?
- (a) Oyo (b)

Kano (c) Lagos (d) Kaduna

- 17. Where is marble mined in Oyo state?
- (a) Igbeti (b) Igboho (c) Iseyin (d) Ogbomoso
- 18. Which of these is a tourist centre in Ogunstate? (a) Ogbudu cattle Ranch
- (b) Ikogusi

water fall (c) Olumo Rock (d) Gurara water fall

- 19. Nigeria is boundaried in the North by which of the following countries.
- (a) Cotonue
- (b)Ghana (c) Cameroum (d) Niger
- 20. The first election in Nigeria was held in the year (a) 1914 (b) 1922 (c) 1948 (d) 1960

ANSWER KEY

1B 6 C 11 D 16 B 2B 7A

12 C 17 A 3. C 8 D 13 B 18C

4C 9 C 14 B 19 D 5D 10B

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15 D 20 B

SECTION D

- 1. River Niger takes its source from
- (a) mountain Everest (b) Filta Jaulo
- (c) Climanjaro
- (d) Olumo rock
- 2. From Which country does River Niger takes its source? (a) Ghana (b) Niger (c) Cote
- D'ivore (d) Guinea
- 3. How many days make a leap year? (a) 362 (b) 364 (c) 365 (d) 366
- 4. How many hours does it take for the earth to rotate on its own axis? (a) 7 hr (b) 12 Hr
- (c) 24 hr (d) 36 hr
- 5. The last eclipse of the sun in Nigeria was observed on (a) 29t1 march. 2006 (b) 28th

march, 2006 (c) 30th march, 2006 (d) 27t1 march, 2006

- 6. Dr. Goodluck Jonathan was sworn in as executive president on . . . (a) 1 May, 2010
- (b) 2 May, 2010 (c) 5th May, 2010 (d) 6th

May, 2010

- 7. Aihaji Umar Yar'adua died in office on.... (a) 1 May, 2010 (b) 2IId May, 2010 (c) 5th
- May, 2010 (d) 6th May, 2010
- 8. The first country to withness Oyster in North- Africa in 2011 is (a) Egypt
- (b) Tunisia
- (c) Libya (d) Morroco
- 9. The first multi-storey building in Nigeria was built in (a) Lagos (b) Abuja (c) Kano (d)

Ibadan

- 10. The Premier University college was established in Nigeria in the year. (a) 1960
- (b) 1947 (c) 1948 (d) 1949
- 11. The first television station in Africa, WNTV, was established in the year (a) 1959 (b)

1960 (c) 1963 (d) 1966

- 12. Who stopped the killing of twins in Calabar? (a) Henry Townsend (b) Mary Slessor
- (c) Mongo Park (d) Herbert Marculey
- 13. English language Bible was translated to

Yoruba Language by... (a) Bishop Adelakun

(b) Bishop Finn (c) Bishop Ajayi Crowther (d)

Cannon Sunday Makinde

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14 Is referred to as confluence town in Nigeria. (a) Lokoja (b) Lagos (c) Port Harcourt (d)

Abu ja

15. Nigeria is boundaried in the south with (a) Pacific ocean (b) Atlantic ocean (c) Red

sea (d) Artic & Antartic

16. How many political parties participated in the 2011 general election ? (a) 62 (b) 63

(c) 64 (d) 65

17 is the leader of the first military coup in Nigeria. (a) Col. Emeka Ojukwu (b) Major

Chukwuma Nzeogwu (c) Gen. Olusegun Obasanjo (d) Gen Yakubu Gowon

18. The basis for Nigeria's membership of the commonwealth is (a) She was a former

colony of Britain (b) She was a leading opponent of Apartheid in South Africa c She is

the most populous black nation (d) She provides athletes for the common wealth.

19. Which of the following is not an interest group? (a) Christian Asssociation of Nigeria

(b) Nigerian Medical Association (c) Catholic church (d) Pentecostal fellowship of

Nigeria

20. A legislative debate or proceeding which is attended by all members of the house is

called (a) Plenary session (b) Recess session (c) committee stage! session (d) Third

Reading session

ANSWER KEY

1 B 6D 11A 16B 2D 7 C

12B 17B 3. D 4B 13C 18A

4C 9 D 14A 19C 5A 11D

15D 20A

SECTION E

1. During the period of 1960-1966, Nigeria was governed under the: (a) Presidential

system of government (b) West minister system of Government (c) Con -federal system

of government (d) Unitary system of government

2. Which of the following in the Sokoto caliphate performed functions similar to that of

the Bashorun in Oyo kingdom?

- (a) Waziri (b) Galadima (c) Ma'aji (d) Alkali
- 3. In the lgbo political system, the most senior member of the council of elder is the (a)

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Okpara (b) Obi (c) Eze (d) Ofo

- 4. Herbert Macaulay was the first president of (a) NCNC (a) AG (c) UMPC (d) NEPU
- 5. Equality before the law is a component of (a) Separation of power (b) checks and

balances (c) The rule of law (d) constitutional law

6. Adolf Hitler is to Nazism as Benito Mussolin is to (a) Feudalism (b) communism (c)

Fascism (d) Socialism

- 7. Nigeria became a republic on (a) May 29, 1999
- (b) Oct. 1, 1960 (c) Jan. 15, 1966 (d) Oct. 1, 1963
- 8. The Economic Community of West Africa states was established in (a) May 1975 (b)

May 1963 (c) May 1966 (d) May 1996

9. The first Indigenous Governor -General of Nigeria is (a) Donald Cameron (b) Sir

Ames Robertson (c) Sir AdesojiAderemi (d) Rt. Hon. Nnamdi Azikwe

- 10. Free-Education was introduced in western Region by which of these Premier?
- (a) Chief Obafemi Awolowo (b) Chief S. L Akintola (c) Chief Michael Adekunle Ajasin
- (d) Chief Bola Ige
- 11. The EFCC was established to (a) arrest & try corrupt politician (b) combat economic

and financial crimes in Nigeria (c) arrest, detain & prosecute corrupt state governors and

legislators (d) assist the world in monitoring economic project in Nigeria

- 12. In many countries, citizenship can be acquired through the following process except
- (a) Nationalization (b) Naturalization (c) Registration (d) Birth
- 13. The following are Anglophone West Africa countries except (a) Ghana (b) Nigeria
- (c) Kenya (d) The Gambia
- 14. Every political system performs the following basic function except (a) Rule making
- (b) Rule transformation (c) Rule enforcement (d) Rule adjudication
- 15. The amalgamation of the Northern and Southern protectorates and the colony of

Lagos was in (a) 1960 (b) 1966 (c) 1963 (d) 1914

16. Globalization is all but except one of these . . . (a) a renewed concept in international

studies (b) limited to the west (c) a process of making the world smaller (d) an increasing

integration of the world

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- 17. The centenary anniversary of the amalgamation of Northern and Southern Nigeria
- will be established in (a) 2060 (b) 2066 (c) 2064 (d) 2014
- 18. The second military coup deta' tin Nigeria took place on (a) Jan. 15, 1966 (b) Oct. 1,
- 1966 (c) July 29, 1966 (d) July 29, 1975
- 19. The idea of democracy stated with the (a) Romans (b) British (c) Greeks (d) Egyptian
- 20. The first political party in Nigeria was established in (a) 1923 (b) 1922 (c)1951 (d)
- 1979
- 22. Under the military regime in Nigeria, state enactment are known as (a) laws (b)
- decrees (c) edicts (d) promulgation (e) proportion
- 23. The motto of Boys' Scout is (a) be faithful (b) be prepared (c) be inspired (d) be
- serious (e) be helpful
- 24. Which state is referred to as 'power state' (a) Bayelsa (b) Delta (c) Niger (d) Federal capital territory (e) Kaduna.

ANSWER KEY

1 B 6 C 11 B 16 B 21 B 2 A 7 D 12 C 17 D 22 B 3. D 8 A 13 C 18 C 23 B 4 A 9 C 14C 19 C 24 C 5 C 10A 15 D 20 B

PHYSICS

OBAFEMI AWOLOWO UNIVERSITY 2006 POST UME TEST

1. A 70kg man ascends a flight of stairs of height 4m in 7s. The power

expended by the man is

- (a) 40W (b) 100W (c) 280W
- (d) 400W
- 2. A body accelerates uniformly from rest at 6ms₂ for 8seconds and then decelerates uniformly to rest in the next 5 seconds. The magnitude of the deceleration is:
- (a) 9.6ms₂ (b) 48ms₂
- (c) 24.0ms₂ (d) 39.4 ms
- 3. A nail is pulled from a wall with a string tied to the nail. If the string is inclined at an angle of 300 to the wall and the tension in the string is SON, the effective force used in pulling the nail is
- (a) 25N (h) 25V3N (c) SON
- (d) 50V3N
- 4. If *M* and *R* are the mass and radius of the earth respectively and G is the universal gravitational constant, the earth's gravitational potential at an altitude *H* above the ground level is:
- (a)-GM/H (b) -GM/(R+H)
- (c) -GM/2H (d) -GM/(R-H)
- 5. Which of the following statement is not true:
- (a) As the slope of an inclined plane increases, the velocity ratio decreases.

Acceleration due to gravity $g = 9.8 \text{m/s}_2$

Gas constant R 8.31 J/mol.K

Speed of light in vacuum, \boldsymbol{c} 3.0 x 10sm/s Planck constant, h6.63 X 10w-34 J.s

- (b) The efficiency of an inclined plane decreases as the slope increases.
- (c) The effort required to push a given load up an inclined plane increases as the slope increases.
- (d) The mechanical advantage of a smooth inclined plane depends on the ratio of the length of the height of the plane.
- 6. The ice and steam points of a thermometer are 20mm and 100mm respectively. A temperature of 75 °C corresponds to Ymm on the thermometer. What is Y?
- (a) 100mm (b) 70mm (c) 80mm (d) 60mm
- 7. An electric kettle with negligible heat capacity is rated at 2000W. If 2,0kg of water is put in it, how long will take temperature of water to rise from 200 to IO00? [Specific heat capacity o/ water 4200J Kg-1K-1]
- (a) 336s (b) 420s (c) 168s (d) 84s
- 8. A quantity of ice at 10₀C is heated until the temperature of the heating vessel is 90₀C. Which of the following constants is NOT required to determine the quantity of heat supplied to the vessel
- (a) Specific latent heat of Vaporization front of a biconvex
- (b) Specific heat capacity of ice.
- (c) Specific latent heat of fusion.

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- (d) Specific heat capacity of water.
- 9. The scent from a jar of perfume opened in one corner of a room is picked up in anther part of the room. The perfume moves through the air molecules;
- (a) Evaporation (b) Osmosis
- (c) Diffusion (d) Convection
- 10. An object of height 3.00cm is placed 10cm in lens of focal length 15cm. The image of the object is
- (a) Real and 3.00 cm tall
- (b) Virtual and 3.00cm tall
- (c) Virtual and 9.00cm tall
- (d) Real and 9.00cm tall
- In the diagram above, P, Q and R are vectors. Which of the following options gives the correct relationship between the vectors?
- 11) A convex lens of focal length 10.0cm is used to form a real image which is half the size of the object. How far from the object is the image?
- (a) 45cm (b) 30cm (c) 15cm (d) 20cm
- 12. A diverging lens of focal length 20cm forms an image half of the size of the object. What is the object distance?
- (a) 11.11cm (b) 100cm (c) 60cm
- (d) 8.71cm
- 13. An object of height 3.00cm is placed 10cm in front of a biconvex lens of focal length 15cm. The image of the object is
- (a) Real and 3.00cm tall
- (b) Virtual and 3.00cm tall
- (c) Virtual and 9.00cm tall
- (d) Real and 9.00cm tall
- 14. The most suitable type of mirror used for the construction of a searchlight is the:
- (a) Concave mirror
- (b) Convex mirror
- (c) Spherical mirror
- (d) Parabolic mirror
- 15. Light waves and ripples of water
- are similar because both
- (a) are longitudinal waves
- (b) have the same velocity
- (c) can be diffracted and refracted
- (d) have the same frequency
- 16. Three 4-G resistors were connected in series by 'Tola while Ade connected the same set of resistors in parallel. The ratio of the value

obtained by Ade to that obtained by 'Tola is

- (a) 1:2 (b) 1:9 (c) 1:10 (d) 1:5
- 17. Three resistors are connected as shown in the diagram below. The equivalent resistance between points X and Y is
- 18. A coil of copper wire of N turns is kept rotating between the poles of a permanent magnet such that the magnetic flux linking the coil changes

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continuously. Which of the following statements is TRUE?

- a) An emf is induced in the coil such that when the change of flux is positive the emf is positive, and when the change of flux is negative, the emf is negative.
- b) An emf is induced in the coil whose magnitude is inversely proportional to both the number of turns in the coil and the rate of change of magnetic flux.
- c) An emf is set up in the permanent magnet which reduces the flux in the coil to zero.
- d) A current flows in the coil and an emf is set up proportional to both the rate of change of the flux and the number of turns.
- 19. What is the equivalent capacitance between points A and B in the diagram below?
- 20. The principle of operation of an induction coil is based on
- (a) Ohm's law (b) Ampere's law
- (c) Faraday's law (d) Coulomb's law
- 21. The equation

represents

- (a) a-decay (b) n-decay
- (c) y-decay (d) photon emission
- 22. Which of the following radiations cannot be deflected by an electric field or a magnetic field?
- (a) a-rays (ii) a-rays (iii) y-rays
- (iv) X-rays
- (b) (i) and (ii) only
- (c) (iii) and (iv) only
- (d) (i) and (iii) only
- 23. The half-life of a radioactive element is 9 days. What fraction of atoms has decayed in 36 days?
- (a) "16 (b) '/, (c) . (d) 15,

EXPLANATION TO ANSWERS

1. Power is the rate of doing work or expending energy. It is represented as Power,

P = Work done = Force x Distance

'Time Time

The effective force pulling on the nail is resolved perpendicular to the wait.

- 5. Efficiency of inclined plane depends on how rough the surface of the inclined plane is and not on the slope (13)
- 8. (A) Specific latent heat of vapourifation of a substance is the quantity of heat required to change unit mass of the substances from liquid to the vapour state at the same temperature. In this case, the temperature of heating vessel is 90°C which is below 100°C, the temperature at which water can vapourise.
- 9. (C) Diffusion describes the movement of solute particles through

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a medium 1mm a region of higher concentration to a region of tower concentration. Diffusion is fastest in gaseous because gas molecules have more kinetic energy than particles m solid and liquids state and the rate o diffusion of gases is affected by then densities.

12. f = -20cm (Negative focal length because divergent lens always produce virtual image, so V is also negative)

16.
Image height = 9c.m
Image of object is vertical (V -30cm) & 9cm tall
14. Spherical concave mirrors are
therefore not used as car headlamp or as searchlight because they do not
provide a parallel beam of constant intensity, so PARABOLIC mirror is used (D)
15. (C) — Light waves and water can be Reflected and Diffracted.

20. In 1831, after experiments extending over a period of several years, Michael Faraday discovered that a momentary current existed in a current whenever the current in a nearby circuit was being started or

OBAFEMI AWOLOWO UNIVERSITY 2008 POST UME TEST PHYSICS

- 1. Calculate the length of a displaced pendulum bob that passes its lowest point twice every second
- [q = 10ms2]
- (a) 1.000m (b) 0.253m
- (c) 0.450m (d) 0.58m
- 2. A vehicle of mass in is driven by an engine of power P from rest. Find the minimum time it will take to acquire a speed v.
- 3. When a ball rolls on a smooth level ground, the motion of its centre is
- (a) translational (b) random
- (c) oscillatory (d) rotational
- 4. A body accelerates uniformly from rest at 6ms2 for 8 seconds and then decelerates uniformly to rest in the next 5 seconds., The magnitude of the deceleration is:
- (a) 9.6ms2 (b) 48ms2 (c) 24.0ms2 (d) 39.4ms2
- 5. A nail is pulled from a wall with a string tied to the nail. If the string is inclined at an angle of 30° to the wall and the tension in the string is 50N, the effective force used in pulling the nail is.
- 6. A box of mass 40kg is being dragged along by a rope inclined at 60° to the horizontal. The frictional force between the box and the floor is 100N and the tension on the rope is 300N. How much work is done in dragging the box through a distance of 4m?
- (a) 680J (b) 200J (c) 1001
- (d) 400J
- 7. A 70kg man ascends a flight of stairs of height 4m in 7s. The power expended by the man is:
- (a) 40W (b) 100W (c) 280W
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- (c) -GM/2H (d) -GM/(R-H)
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respectively. A temperature of 75°C corresponds to Ymm on the thermometer. What is Y?

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- (d) specific heat capacity of water
- 14. The scent from a jar of perfume opened in one corner of a room is picked up in another part of the room. The perfume moves through the, air molecules by
- (a) Evaporation (b) Osmosis
- (c) Diffusion (d) Convection
- 15. A convex lens of focal length
- 10.0cm is used to form a real image which is half the size of the object. How far from the object is the image?
- (a) 45cm (b) 30cm (c) 15cm (d) 20cm
- 16. A diverging lens of focal length

20cm forms an image halve of the size of the object. What is the object distance?

- (a) 11.11cm (b) 100cm (c) 60cm
- (d) 8.71cm
- 17. An object of height 3.00cm is placed

10cm in front of a biconvex lens of focal

length 15cm. The image of the object is

- (a) real and 3.00cm tall
- (b) virtual and 3.00cm tall
- (c) virtual and 9.00cm tall
- (d) real and 9.00cm tall
- 18. The most suitable type of mirror used for the construction of a searchlight is the:
- (a) concave mirror
- (b) spherical mirror
- (c) convex mirror
- (d) parabolic mirror
- 19. Light waves and ripples of water are similar because both
- (a) are longitudinal waves
- (b) can be diffracted and refracted
- (c) have the same velocity

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- (d) have the same frequency
- 20. Three 4-2 resistors were connected in series by 'Tola while Ade connected the same set of resistors in parallel. The ratio of the value obtained by Ade to that obtained by 'Tola is
- 21. Three resistors are connected as shown in the diagram below. The equivalent resistance between points X and Y is
- 22. A coil of copper wire of N turns is kept rotating between the poles of a permanent magnet such that the magnetic flux linking the coil changes continuously. Which of the following statements is TRUE?
- (a) An emf is induced in the coil such that when the change of flux is positive the emf is positive, and when the change of flux is negative, the emf is negative.
- (b) An emf is induced in the coil whose magnitude is inversely proportional to both the number of turns in the coil and the rate of change of magnetic
- (c) An emf is set up in the permanent magnet which reduces the flux in the coil to zero.
- (d) A current flows in the coil and an emf is set up proportional to both the rate of change of the flux and the number of turns.
- 23. What is the equivalent capacitance between points A and B in the diagram below?
- 24. The principle of operation of an induction coil is based on
- (a) Ohm's law (b) Ampere's law
- (c) Faraday's law (d) Coulomb's law
- 25. The half-life of a radioactive element is 9 days. What fraction of atoms has decayed in 36 days? (a) /I6 (b) . (c) . (d) '/I6
- 26. Which of the following radiations cannot be deflected by an electric field or a magnetic field'? (a)i. ct-rays (ii) 3-rays (iii) y-rays (iv) X-rays (b) (i) and (ii) only (c) (iii)and(iv)only (d) (i) and (iii) only
- 1. (A) 1'ranslational motion is when a rigid today moves in space without rotating.

represents

- (a)i. ct-decay (b) 3-decay (c) y-decay (d) photon emission
- 5. The effective force pulling on the nail is resolved perpendicular to the wall= Tsin3O

=50x.=25N(A)

- 8. (B) The efficiency of inclined plane depend on how rough the surface of the inclined plane is and not on the slope.
- 12. Heat supplied by heater = heat gained by water

 $2000 \times t = 2 \times 4200 \times (373 - 293)$

t = 336secs(A)

13. Check 2006 OAU Post-JAMB

Question 8 (A)

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14. C

15. See OAU 2006 Post-JAMB Question 11(A) 16. See OAU 2006 Post-JAMB Question 12 17. See OAU 2006 Post-JAMB Question 13 (D) 18. See OAU 2006 Post-JAMB

Question 14 (D)

19. B

20. See OAU 2006 Post-JAMB Question 16 (B)

21. See OAU 2006 Post-JAMB

Question 17 (A)

22. D

23. See OAU 2006 Post-JAMB

Question 19 (B)

24. See OAU 2006 Post=JAMB

Question 20 (C)

25. See OAU 2006 Post-JAMB

Question 23 (D)

26. C

27. B

(a) 10/7m (b) 40m (c) 20m

(d) 20/7m

OBAFEMI AWOLOWO UNIVERSITY 2009 POST UME TEST PHYSICS

- 1. The force with which an object is attracted to the earth is called
- (a) Acceleration (b) Mass
- (c) Gravity (d) Impulse (e) Weight
- 2. The refractive index of a liquid is
- 1.5. If the velocity of light in a vacuum is 3.0 x IO8ms1, the velocity of light in the liquid is
- (a) 1.5 x 108ms₋₁ (b) 2.0 x 108ms (c) 3.0 x 108ms (d) 4.5 x 108ms₋₁ (e) 9.0 x 108ms₋₁
- 3. A train has an initial velocity of

44m/s and an acceleration of -4mJs.

What is its velocity after 10seconds?

- (a) 2m/s (b) 4m/s (c) 8m/s
- (d) 12m/s (e) I6mJs
- 4. A man of mass 50kg ascends a flight of stairs 5m high in 5 seconds. If acceleration due to gravity is 10ms2, the power expended is
- (a) 100w (b) 300w (c) 250w (d) 400w (e) 500w
- 5. A machine has a velocity ratio of 5. If it requires a 50kg weight to overcome 200kg weight, the efficiency is
- (a) 4% (b) 5% (c) 40% (d) 50%
- (e) 80%
- 6. If the force on a change of 0.2 coulomb in an electric field is 4N, then the electric intensity of the field is
- (a) 0.8 (b) 0.8N (c) 20.QN/C (d) 4.2N/C (e) 20.OC/N
- 7. The resistance of a wire depends on (a) The length of the wire (b) The

diameter of the wire (c) The temperature of the wire

- (d) The resistivity of the wire
- (e) All of the above
- 8. Which of these is not contained in
- a dry cell?
- (a) carbon rod
- (b) paste of magnesium dioxide
- (c) paste of ammonium chloride
- (d) Zinc case (e) Copper rod
- 9. A simple pendulum 0.6m long has a period of 1.55. What is the period of a similar pendulum 0.4m long in the same direction?
- 10. A devise that converts sound energy into electrical energy is
- (a) The horn of a motor car
- (b) An AC generator
- (c) A microphone
- (d) The telephone earpiece
- (e) A loud speaker
- 11. Radio wave has a velocity of

3x108ms1. If a radio station sends out a broadcast on a frequency 800KH3,

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what is the wavelength to

the broadcast?

- (a) 375.Om (b) 267.0m
- (c) 240.0m (d) 37.5m (e) 26.7m 12,
- 12. Which of these is not a fundamental S.I. unit?
- (a) Metre (b) Ampere (c) Kelvin
- (d) Second (e) Radian
- 13. If two masses 40g and 60g respectively, are attached firmly to the end of a light metre rule, what is the centre of gravity of the system?
- (a) the mid point of the metre rule
- (b) 40cm from the lighter mass
- (c) 40km from the heavier mass
- (d) 60cm from the heavier mass
- (e) indeterminate because the metre-rule is light
- 14. To find the depth of the sea, a ship sends out a sound wave and receives an echo after one second. If the velocity of sound in water is I500mJs, what is the depth of the sea?
- (a) 0.75km (b) 1.50km (c) 2.20km
- (d) 3.00km (e) 3.75km
- 15. What is the number of neutrons in

the Uranium isotope 23802X?

- (a) 92 (b) 146 (c) 238 (d) 330
- (e) 119
- 16. The mode of heat transfer which does not require material medium is
- (a) conduction (b) radiation
- (c) convection (d) propagation
- 17. The height at which the atmosphere ceases to exist is about 80km. If the atmospheric pressure on the ground level is 760mmHg, the pressure at a height on the ground level is 760mmHg, the pressure at a height of 20km above the ground level is
- (a) 380mmHg (b) 570mmHg
- (c) 190nnHg (d) 480mmHg
- 18. Which of the following is common

to evaporation and boiling? They

- (a) take place at any temperature
- (b) are surface phenomena
- (c) involve change of state
- (d) take place at a definite pressure
- (e) None of the above
- 19. Which of the following instrument

has a pure tone?

- (a) Guitar (b) Vibrating string
- (c) Turning fork (d) Screen
- (e) Horns
- 20. Four lenses are being considered for use as a microscope object. Which of the following focal lengths is most suitable? (a) -5mm (b) +5mm (c) -5cm (d) +5cm (e) -5.5mm

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- 21. The product PV where P is pressure and V is volume has the same unit as a) Force (b) power c) energy d) acceleration e) all of above
- 22. Two strings of the same length and under the same tension give notes of frequencies in the ratio 4:1 the masses of the strings are in the rates of a) 2:1 b) 1:2 c) 1:4 d) 17 e) 1:16
- 23. a household refrigerator is rated 200 watts. If electricity is rated watts. If electricity costs 5k per kwh, what is the cost of operating it for 20 days?
- (a) N4.80 (b) N48.00 (c) N480.00
- (d) N4800.00 (e) N240.00

13 14

24. The resistance of a. 5m uniform wire of cross-sectoral area of 0.2 x

EXPLANATION TO ANSWERS

- 1. The force which we are in contact with in our daily lives is that which pulls us towards the earth, it is called Gravitational force (c).
- 2. Refractive Index = Velocity of Light in Vacuum Velocity of Light in the Liquid Velocity of light in the liquid =
- 7. The resistance of a wire or rod is directly proportional to its length, and is inversely proportional to its cross-sectional area i.e. R = p1/A. The resistance of a metallic conductor generally increases with temperature. If the resistance is R_0 at R_0 at temperature T. Then $R = R_0(1 \alpha T)$. The proportionality constant, R is called the resistivity of the material from which the wire is made (E).
- 8. In the dry cell, the electrolyte of wet lechanche cell is substituted with a powder or jelly-like material consisting of a mixture of starch and ammonium chloride. The zinc electrode is made into a can to contain the electrode. The carbon electrode is surrounded by a mixture of manganese oxide (depolarizer). Copper rod is not used in the dry cell (E).

9. In microphone, sound vibration impinging on the diaphragm cause slight vibration of the diaphragm. This brings about some change in the pressure on the carbon granule causing corresponding changes in the resistance of the circuit (C).

23. Total power consumed = (200 x 20 x 24) 96,000KWh = 96k Wh
Since 1KWh is one unit at 5k
Total cost = 96KWh x 5 kobo = 480K (N4.80k) (A)
24 resistivity, Q =

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 $= 1.8 \times 10^{-8} (A)$

25. Complementary colour are two colours that will produce white colours when mixed together i.e blues pus yellow give white. It consists of a primary colour plus the secondary colour at the opposite side of the colour triangle (D).

OBAFEMI A AWOLOWO UNIVERSITY, ILE-IFE 2006 POST –UME SCREENING EXERCISE MATHEMATICS

- 1 A regular polygon have each of its number of sides of the polygon?
- (a) 36 (b) 9 (c) 18 (d) 20
- 2 A girl walks 30m from a point P on a bearing of 040o to a point Q. She the walks

30m on a bearing of 1400 to a point R. The bearing of R from P is

- (a) 90₀ (b) 50₀ (c) 45₀ (d) 40₀
- 3 How many different three digit numbers can be formed using the integers 1 to 6 if

no integer occurs twice in a number?

- (a) 245 (b) 120 (c) 60 (d) 48
- 4 In how many different ways can the letters of the word geology be arranged in
- (a) 720 (b) 1260 (c) 25200 (d) 5040
- 5 A cyclist rode for 30 minutes at xhm/h and due to a breakdown he has to push the

byke for 2hrs at x - 5km. hr. If the total distance covered is less than 60km, what

is the range of values for x?

- (a) x < 14 (b) x < 20 (c) x < 29 (d) x < 28
- 6 A businessman invested a total of N200, 000 in two companies which paid dividends of 5% and 7% respectively. If he received a total of N11,600 as dividend, how much did he invested at 5%?
- (a) N160,000 (b) N140,000 (c) N120,000 (d) N80,000
- 7 In a class, 37 students take at least one of chemistry, Economics and Government,
- 8 students take Chemistry, 19 take Economics and 25 take Government. 12 students take Economics and Government but nobody takes Chemistry and Economics. How many students take both Chemistry and Government?
- (a) 3 (b) 4 (c) 5 (d) 6

8 Solve for p in the following equation given in base two:

11(p + 110) = 1001p

- (a) 10 (b) 11 (c) 110 (d) 111
- 9 Factorize

16 (3x + 2y)2 - 25 (a + 2b) 2.

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(12x + 8y + 5a +
(a) 10b) (12x + 8y - 5a - 10b)
(12x + 8y - 5a)
(b) 10b) (12x + 8y - 5a - 10b)
(c) 20 (3x + 2y - a - 2b) (3x + 2y + a + 2b)
(d) 20 (3x + 2y + a + 2b) (3x + 2y + a + 2b)
10 A cone has base radius 4cm and height 3cm. the area of its curved surface
(a) 12 \Pi \text{ cm}_2 (b) 24 \Pi \text{ cm}_2
(c) 20 \, \text{Л cm}_2 (d) 15 \, \text{Л cm}_2
11 Let \log y + 3 \log x = 3, then, y is
(a) (10/x)_2 (b) (x/10)_3 (c) (x/10)_{-3}
(d) (10/x)_{-1/3}
12 If x_2 - y_2 = 1, then y is
a<sub>2</sub> b<sub>2</sub>
(a) \pm a x_2 - a_2 (b) a a_2 - x_2
b b
(c) \pm a x_2 - a_2 (d) b a_2 - x_2
b a
13 z is partly constant and partly varies inversely as the square of d. When d
= 1, z =
11 and when d = 2, z = 5. Find the value of z when d = 4
(a) 2 (b) 3.5 (c) 5 (d) 5.5
14 Expand the expression
(x2 - 2x - 3) (x2 + x + 1)
(a) x4 - 4x2 - 5x - 3
(b) -x3 - 4x2 + 5x - 3
(c) X4 - x3 - 4x2 - 5x - 3
(d) X4 - 4x2 - 5x - 2
Suppose we have matrices
A = 1 - 1 and B = 0 2
2 3 4 3
15 find A2 + AB - 2A
(a) 5 - 9 (b) -1 - 4
2 3 8 7
(c) - 4 - 4 (d) 0 - 4
12 13 -8 -6
16 The inverse of matrix B is
(a) 1 -3 2 (b) -3 2
8 4 0 4 0
(c) 1 \ 3 - 4 (d) 1 \ 0
```

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8 - 2 0 0 1
17 Find indefinite integral of the function f(x) = x \cos x for any constant k,
(a) x \cos x + \sin x + k
(b) x \sin x - \cos x
(c) x \sin x + \cos x + k
(d) x \sin x - \cos x + k
18 Evaluate the integral
2 (x2 + 1/x) dx
(a) 8 + \ln 2 (b) 7 + \ln 2
3 3
(c) 7 - 1n3 (d) 8
3 3
19 The trigonometric expression cos 2A + sin 2A can be written as
(a) cos A (cosA - sin A)
(b) cos2 A + sin2 A - 2sin A cos A
(c) 2 \sin A \cos A + \cos_2 A + \sin_2 A
(d) \cos_2 A + \sin_2 A + \cos A
Suppose D, E and P are subsets of a universal set U. U be the set of natural
numbers no greater than 10, while D, E and P are respectively the set of odd
numbers, even numbers and prime numbers. For any set x, its complement X and
0 denote the empty se.
20 Display the set D P.
(a) \{3, 5, 7\} (b) \{2\} (c) \{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\} (d) 0
A bag contain 10 balls of which 3 are red and 7 are white. Two balls are drawn
at
random. Find the probability of none of the balls is red if the draw is.
22 With replacement:
(a) 0.9 (b) 1 (c) 0.4 (d) 0.49
23 Without replacement:
(a) 0.1 (b) 0.47 (c) 0.42 (d) 0.21
SOLUTION
1 Each angle of a regular polygon
180_0 \text{ (n-2)}
160_0 \text{ n} = 180_0 \text{ (n-2)}
160_{0n} = 180_{0n} - 360_{0}
20_{0n} = 360_{0}
n = 360_0 = 18
20_{0}
The number of sides of the polygon is 18 (C)
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From the figure above, the bearing of R from P = 400 + 0
Triangle PQR in isosceles, :. P = R
P = R = 0
0 = 180_0 - 80_0 = 50_0
The bearing of R from P
0 = 40_0 + 50_0 = 90_0 (A)
3 The number of three digit numbers from integers 1 to 6
= 6p_3 = 6! = 6! = 120
(6-3)3!3!
(B)
4 Geology has 7 letters = 7!
 '0' occurs twice = 2!
 'G' occurs twice = 2!
:. The different arrangement
= 7! = 1260  (B)
2! X 2!
5 Distance covered in the first part = speed x time taken
= x \times 30 = 1 xkm
60 2
Distance covered in the second part
= 2 (x -5) \text{ km}
2(x - 5)2 + x < 60
4x - 20 + x < 120
\rightarrow 5x < 140
X < 28 (D)
6 Name the companies as A, B respectively
Let the amount invested in A = x with the dividend 5%
Then the amount invested in B = 200,000 - x
\therefore 7% of (200, 000-x) + 5% of x = 11, 600
0.07(200,000-X) + 0.05X = 11,600
14,000 - 0.07x + 0.05x = 11,600
-0.02x = -2,400
X = 120,000
:. The amount invested in A = N120,000 (C)
7 \text{ n(C)} = 8 \text{ n(G)} = 25 \text{ n(E)} = 19
Let n (C G) = x
From the Venn diagram above
35 = 8x + x + 25 - (12 + x) + 12 + 7
35 = 40 - x
X = 5
:. 5 students take both chemistry & government (C)
8 11(p + 110) = 1001p
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Note in base 2
Divide both sides by 11
P + 110 = 1001p = 11p
P + 110 = 11p
11p - p = 110
\rightarrow P = 11 (B)
9 16(3x + 2y)_2 - 25(a + 2b)_2
=[4(3x+2y]_2-[5(a+2b)]_2
=[4(3x+2y-5(a+2b))_2[4(3x+2y)-5(a+2b)]
=[12x-8y+5a-10b][12x+8y-5a-10b]
(A)
10 Curved surface area of a cone
= .\Pi r1
1_2 = h_2 + r_2
= 3_2 + 4_2
1 = \sqrt{25} = 5 \text{cm}
:. C. S. A. = \Pi x 4xm x 5cm
= 20 \Pi \text{ cm}_2
(C)
11 \log y + 3 \log x = 3
Log y + log x_3 = x_3
Log y = 3 - log 3
log_{10y} = log_{10}10_3 - log_{10x3}
y = 10_{3}
Χ
(A)
12 x_2 - y_2 = 1
a2 b2
y_2 - x_2 - 1
b2 a2
y_2 - x_2 - a_2 y_2
b<sub>2</sub> a<sub>2</sub>
b_2 (x_2-a_2)
y2 a2
Taking the root of both sides
y = \pm \sqrt{b_2 (x_2 - a_2)}
y = \pm b \sqrt{(x_2 - a_2)}
13 z = k + c 1/d_2 where k and c are constant, when d = 1, z = 11
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11 = k + c \cdots (i)
When d = 2, z = 5
5 = k + c
4
\therefore 20 = 4k + c - - - (ii)
(ii) - (i)
9 = 3k
\rightarrow k = 3
then in (i)
c = 11 - k = 11 - 3 = 8
the connecting equation is
z = k + cd_2
z = 3 + 8/d_2
when d = 4
z = 3 + 8 = 3 + 0.5
16
= 3.5 (B)
14 (x2 - 2x - 3) (x2 + x + 1)
= x2 9x2/ x/1) 2x(x2/x/1) 3(x2/x/1)
= x4 + x_3 + x_2 - 2x_3 - 2x_2 - 2x - 3x_2 - 3x - 3
= x4 - x_3 - 4x_2 - 5x - 3
15 A_2 = 1 -1 1 -1
2 3 2 3
19. \cos 2A + \sin 2A
\cos 2A = \cos_2 A - \sin_2 A
\sin 2A = 2 \sin A \cos A \cos 2A
cos 2A + Sin2A
= \cos 2A + \sin 2A + 2\sin A \cos A (D)
20. D n P = \{3, 57\} (A)
21. D n E O (D)
22. Pr (none of the balls is red)
Pr(W_1 \times W_2)
= 7 \times 7 = 0.49 (D)
10 10
23. Pr (W_1 \times W_{2/1})
= 7 \times 6 = 0.47 (B)
10 10
OBAFEMI A AWOLOWO UNIVERSITY, ILE-IFE
2007 POST - UME SCREENING EXERCISE
MATHEMATICS
1 the interior angles of a pentagon (a) 75^{\circ} (b) 108^{\circ} (c) 120^{\circ}
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- (d) 134°
- 2. All the vertices of an isosceles

triangle lie on a circle and each of the base angles of the triangle is 65° . The angle

subtended at the centre of the circle by the base of the triangle is:

- (a) 130° (b) 115° (c) 100°
- (d) 65°
- 3. A square tile measures 20cm by

20cm. How many of such tiles will cover a floor measuring 5m by 4m? (a) 500 (b) 400

- (c) 320 (d) 250
- 4. The volume of a certain sphere is numerically equal to twice its surface area. The

diameter of the sphere is:

- (a) 6 (b) 9 (c) 12 (d) v'
- 5. A bearing of 3 10° , expressed as a compass bearing is:
- (a) $N50^{\circ}$ W (b) $N40^{\circ}$ W
- (c) $S40^{\circ}$ W (d) $S50^{\circ}$ W
- 6. Which of the following specified sets of data is not necessarily sufficient for the

construction of a triangle?

- (a) three angles
- (b) two sides and a right angle (c) two sides and an included angle (d) three sides
- 7. The average age of the three children in a family is 9 years. If the average age of their

parent is 39 years, the average age of the whole family is:

- (a) 20 years (b) 21 years
- (c) 24 years (d) 27 years
- 10. Evaluate x in base 3 if

41 - 22 = 17

- (a) 11 (b) 8 (c) 12 (d) 22
- 11. A woman buys 4 bags of rice for b56 per bag and 3 bags of beans for L26 per bag

using the currency "LONI" (b) in base 7. What is the total cost of the items in another

currency "MONI" (M) in base 8?

- (a) M224 (b) M1 14 (c) N340 (d) M440
- 12. When the price of egg was raised by N2 an egg, the number of eggs which can be bought for N120 is reduced by 5. The present price of an egg is
- (a) N6 (b) N7 (c) N8 (d) N10
- 13. How long will it take a sum of money invested at 8% simple interest to double the

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original sum?
(a) 8 years (b) 10.5 years (c) 12 years (d) 12.5 years
14. The journey from Lagos to Ibadan usually takes motorist 1 hour 3 minutes.
increasing his average speed by 20km/hr, the motorist saves 15 minutes. His
usual speed,
in km/hr is
(a) 100 (b) 90 (c) 85 (d) 80
15. The smallest section of a rod which
can be cut into exactly equal sections,
each of either 30cm or 36cm in length
(a) 90cm (b) 180cm (c) 360cm (d) 540cm
16. If x = 0.0012 - 0.00074 - i - 0.003174, what is the difference between x to 2
decimal
places and x to 1 significant figure?
(a) 0.01 (b) 0.005 1 (c) 0.1 (d) 0.005
17. The angle of depression of two points A and B on a plane field from the
top of a mast
erected between A and B are 30^{\circ} and 450 respectively. If A is westward of B,
find IABI
if the height of the mast is 15m from the field.
18. The radius of a circle is given as
10cm subject to an error of 0.2cm.
The error in the area of the circle is
(a) -% (b) -% (c) 2% (d) 4%
19. If 0 is acute, evaluate
(a) tan 8 (b) -tan 8 (c) cot 8 (d) -cot 8
20. In a survey of 100 students in an institution, 80 students speak Yoruba,
22 speak Igbo,
while 6 speak neither Igbo nor Yoruba. How many students speak Yoruba and
Igbo?
(a) 96 (b) 8 (c) 64 (d) 12
21. A bag contains 5 yellow balls, 6 green balls and 9 black balls. A
```

ball is drawn from the bag. Whatis the probability that it is a black or vellow ball?

The table below shows the distribution of weight measure for 100 students. Weight

(kg

60-

62

63-

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```
66-
68
69-
71
71-
74
f 5 18 42 27 8
22. Calculate the mean of the
distribution to two decimal places.
(a) 64.45 (b) 62.45 (c) 67.45
(d) 65.45
23. Calculate the mode of the distribution to two decimal places
(a) 67.33 (b) 65.33 (c) 65.53(d) 67.35
T' Q is a tangent to the circle
ABCDT, angle DTQ = 400, angle
AlT' = 30^{\circ} , then angle ATD is
(a) 70^{\circ} (b) 90^{\circ} (c) 250^{\circ} (d) 110^{\circ}.
Sum of mt. angles of a pentagon =
5400
= 5400 (1800+1180+800+780) =840
\langle BAC = 180^{\circ} - 2 \times 65^{\circ} = 500
(sum of angles in a \Delta)
=0 2 x <ABC [angle at the centre]
.:. 0=100°
(C)
3 Number of tiles needed along each
length = 5m = 500 = 25 tiles 20 tiles
20cm 20
Number of tiles needed across each
width = 4m = 400 = 20 tiles
20cm 20
Total number of tiles needed =
25 \times 20 = 500 \text{ tiles (A)}
Area of a sphere = 4 \Pi r_2
Volume of a sphere = 4 \, \text{Лr}_3
3
To get 7, one will subtract 2 from
9. Therefore, 1 becomes 9 when 8
is added to it. Hence x is 8 (B)
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11. Total cost in L 567 + 267
cost of 4 bags of rice = 567 x 47
Cost of 3 bags of beans = 267 \times 37
= 1147
4407 = 4x72 + 4x71 + 0x70
= 196 + 28 = 224 j
224 in base 8
= 3408
Hence the item cost M340 (C)
12. Let the present price of an egg = x Then N(x + 2)
bought 5 less
Number of eggs that can be bought
for N120 at Nx each
Multiply through by x(x + 2)
120x \ 120(x - 2) - 5(x - 2)x
120. = 120x - 240 - 5x_2 - 10x
5x_2 + 10x - 240 = 0
x_2 + 2x - 48 = 0
x_2 + 8x - 6x - 48 = 0
x(x - 8) - 6(x + 8) = 0
=> x = 6 \text{ or } -8
Hence, x=N6. (A)
13. Amount = P + Interest
= 2P=P+I
I=P
```

 $\Delta_{\,2}\,\text{Difference}$ between the frequency of the modal weight and the preceding class

 Δ_2 Difference between the frequency of the modal class and the succeeding class

```
= 65.5 +
= 65.5 + 1.85
= 67.35 (D)
```

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OBAFEMI AWOLOWO UNIVERSITY, ILE-IFE 2008 POST-UME MATHEMATICS

- 1. The expression as + bs is equal to
- 7. A cyclist rode for 30 minutes at xkm/h and due to a breakdown he had to push the byke

for 2hrs at x - 5km/hr. If the total distance covered is less than 60km, what is the range of

values for x?

- (a) x<14 (b) x<20 (c) x<29
- (d) x < 28
- 8. The expression ax2 + bx takes the value 6 when x = 1 and 10 when x
- = 2. Find its value when x = 5.
- (a) 10 (b) 12 (c) 6 (d) -10
- 9. The difference of two numbers is
- 10, while their product is 39. Find

these numbers.

- (a) 3 and 10 or 13 and 10
- (b) 3 and-10or3 and 13
- (c) 3 and -3 or 3 and 13
- (d) -3 and -13 or 13 and 3
- 10. The average age of x pupils in a class is 14 years 2months. A pupil of 15 years 2

months joins the class and the average age is increased by one month. Find x.

- (a) 12 (b) 6 (c) 11 (d) 14
- 11. Dividing 2x-x-5x-1 by x + 3 gives the remainder
- (a) -3 (b) 47 (c) 61 (d) -47
- 12. Let f(x)2x3-3x2-5x-6. If x I divides f(x) find the zeros of the function.
- (a) 1, 2, (b) 1, 2, (c) -1, 2, 3
- (d) 1, -2, -2/3

All the 120 pupils in a school learn

Yoruba or Igbo or both. Given that

- 75 learn Yoruba and 60 learn Igbo.
- 13. How many learn both languages?
- (a) 60 (b) 45 (c) 15 (d) 120
- 14. How many learn Igbo only?
- (a) 45 (b) 30 (c) 15 (d) 6
- (c) {1, 2, 3, 4, 5, 6, 7, 8, 9, 10}

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- 21. In a throw of a fair die, the probability of obtaining an even number is
- 22. Two fair coins are tossed

simultaneously. What is the

probability of obtaining at least 1

tail turns up?

- (a) 1/4 (b) . (c) . (d) 1
- 23. A bag contains 10 balls of which 3 are red and 77 are white. Two balls are drawn at

random. Find the probability of none of the balls is red if the draw is:

With replacement:

- (a) 0.9 (b) 1 (c) 0.4 (d) 0.49
- 24. Without replacement:
- (a) 0.1 (b) 0.47 (c) 0.42(d) 0.21
- 25. A regular polygon has each of its angles as 160° . What is the number of sides of the

polygon?

- (a) 36 (b) 9 (c) 18 (d) 20
- 26. One angle of an octagon is 100°

while the other sides are equal.

Find each of these exterior angles.

(a) 40° (b) 80° (c) 60° (d) 140°

Let and ,L? be the roots of the equation x_2 - 5x - 4 = 0

SOLUTION

OBAFEMI AWOLOWO UNIVERSITY 2009 POST UME MATHEMATICS

1. A sector of a circle of radius 7.2cm 8. which subtends an angle of 3000 at the centre is used to form a cone. What is the radius of the base of the cone? (a) 6cm (b) 7cm (c) 8cm (d) 9cm (e) 5cm 9. 2. If $pq + 1 q_2$ and t = 1/p - 1/pq, express t in terms of q. (a) 1/q (b) 1/q-1 (c) 1/q+1(d) 1+1q (e) 1/1-q3. If $3_{2y} - 6(3_y)27$, find y (a) 3 (b) -1 (c) 2 (d) -3 (e) 14. An (n 2)2 sided figure has n diagonals, find the number n of diagonals for a 25 sided figure. (a) 8 (b) 7 (c) 6 (d) 9 (e) 10 5. A sum of money was invested at 8% per annum simple interest. If after 4 years the money became 330.00, what is the amount originally invested? (a) 180 (b) N165 (c) M50 (d) 200 (e) 250 7. List all integers satisfying the inequality 2 < 2x - 6 < 4(a) 2, 3, 4, 5 (b) 2, 3, 4 (c) 2, 5 (d) 3, 4, 5 (e) 4, 5 8. Two fair dice are rolled. What is the probability that both show up the number of point? (a) 1/36 (b) 3/36 (c) 1/x (d) 1/3 (e) 1/6 9 Find the probability of selecting a figure which is parallelogram from a square, a rectangle, a rhombus, a kite and a trapezium (a) (b) 2/5 (c) 4/5 (d) 15 (e) 5/5 10. A man kept 6 black, 5 brown and 7 purple shirts in a drawer. What is the

11/18 (d) 7/11 (e) 5/10

(b) 7/18 (c)

11. If P varies inversely as V and V varies directly as R_2 , find the relationship between P and R given that R=7whereP=2.

probability of his picking a purple shirt with his eyes closed. (a) 2/7

(a) $P = 98R_2$ (b) $PR_2 = 98$ (c) $P_2R = 89$ (d) P = 1/98R (e) $P = R_2/98$

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12. If 7 and 189 are the first and fourth terms of a geometric progression
respectively, find the sum of the first three terms of the progression. (a)
182 (b) 180
(c) 91 (d) 63 (e) 28
13. Find the positive number n such that thrice its square is equal to twelve
times the number (a) 1
(b) 4 (c) 2 (d) 5 (e) 9
14. Given a regular hexagon, calculate each interior angle of the hexagon
(a) 60_0 (b) 30_0 (c) 120^\circ (d) 45_0 (e) 135_0
15. Factorize 6x2 -14x -12
(a) 2(x+3)(3x-2)
(b) 6(x-2(x+1)) (c) 2(x-3)(3x+2) (d) 6(x+2x-1) (e) (3x-4x2x+3)
16. The value of (0.303) - (0.02) is
(a) 0.019 (b) 0.0019
(c) 0.00019 (d) 0.000019
(e) 0.00035
17. What is the product of
(27/5 \div 3_3) and (1/5) (a) 5 (b) 3 (c) 2 (d) 1 (e) /25
18. Find n if
log2 \ 4 + log2 \ 7 - log2 = 1
(a) 10 (b) 14 (c) 12 (d) 27 (e) 26
19. In 1984, Tolu was 24 years old and his father is 45 years. In what year
was Tolu exactly half his father's age?
(a) 1982 (b) 1981 (c) 1983
(d) 1979 (e) 1978
20. If x = 1 is root of the equation
x_3-2x_2-5x+6, find the other
roots. (a) -3 and 2 (b) -2 and 2
(c) 3 and -2 (d) 1 and 3 (e) -3 and 1
21. Find the probability that a number
selected at random 40 to 50 is a prime.
(a) (b) 112 (c) (d) (e) I17
22. If the lengths of the sides of a
right-angled rectangle are (3x + 1) cm, (3x - 1) cm and xcm,
what is x? (a) 2 (b) 6 (c) 18 (d) 12 (e) 0
23. A number of pencils were shared
out among Peter, Paul and Audu in the ratio 2:3:5 respectively. If
Peter got 5, how many were
shared.
```

SOLUTIONS

(a) 15(b) 25 (c) 30(d) 50 (e) 55

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1. Area of the sector = curved surface area of the cone formed
For p = 9, = 9 = 32
=>v=2 (C)
4. For 25 sided figure (n = 2)_2 = 25
Taking the square root of both sides
n-2\square 5
n=2\square 5
=> n=7 (B)
5. Amount (A) = Principal (P) + Interest (I)
7. 2 < 2x - 6 < 4
Solving the first part
2<2x-6
2+6<2x
8< 2x
\Rightarrow 4\langle x
Solving the last part
2x-6<4
2x < 4 + 6
2x < 10 x < 5
4<x<5
There is no such integer x!
8. There are 6 possible outcomes on a die. There are 62 = 36 possible outcomes
on two
fair dice Required outcomes are
\{(1,1), (2,2), (3,3), (4,4), (5,5), (6,6)\}
Hence, the probability = 36.1
36 6
(E)
9. There are five possible outcomes The required outcomes are square,
rectangle and rhombus because they are parallelogram. Hence, probability of
selecting a figure which is a parallelogram =
3/5 (A)
10 7 7 (B)
6+5+7 18
11. Pa, 1 VaR<sub>2</sub>
Then p = K and V = CR_2 where
K and C are constants Hence, p = K
CR_2
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P = m \text{ where } K = m \text{ is a}
R<sub>2</sub> C
constant
If P=2, R=7
2 = m
7_2
2 = m
49
m = 98
P = 98
R_2
So, PR_2 = 98 (B)
12. nth term of a G.P.
= arn-1
1_{st} term = a = 7 (i)
4th term ars 189 (ii)
Put the value of a in (ii)
7r<sub>3</sub> 189
r_3 = 189
7
r_3 = 27
:. r = 3
Sum of the first n terms of a G.P.
S_n = a(r_n - 1)
r -1
S_3 = 7 (3_3 - 1) = 7 (27 - 1)
3-12
19. Let the number of years = x
Tolu's age = 24 + x while her
father's age = 45 + x
Then 24+ x = . (45+x)
By multiplying through by 2
48 + 2x = 45 + x
=> x = -3
Hence the year is 1984 - 3
= 1981 (B)
20. Since x = 1 is a root, we have that x
-1 \text{ divides } x_3 - 2x_2 - 5x + 6
The remaining roots are the roots of x_2 - x - 6 = 0
\Rightarrow x_2 - 3x + 2x - 6 = 0
x(x - 3) + 2(x - 3) = 0
(x + 2)(x - 3) = 0
\Rightarrow x + 2 = 0 or x - 3 = 0
```

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```
Hence, x = -2 and 3 are the remaining roots.
(C)
21. They are eleven numbers from 40 to 50 with
three primes; 41, 43 and 47.
Hence, the probability of selecting a prime= 3
22. (3x + 1) cm is the hypotenuse side since it is
more than the other two sides.
Using Pythagoras' theorem
(3x+1)2 = (3x -1)_2 + x_2
9x_2 +6x+1=9x_2 -6x+1+x_2
\Rightarrow 10x2 - 9x2-6x - 6x+1-1= 0
x_2 - 12 x = 0
X (X -12) = 0
\Rightarrow x =0 cannot be 0, therefore
X = 12 (D)
7(26) = 91(C)
2
13. 3n_2=12n
3n_2 - 12 n = 0
3n (n - 4) 0
n = 0 \text{ or } n - 4 = 0
\Rightarrow n = 0 or n = 4
Since n is positive, n = 4 (B)
14. Each interior angle of a regular
polygon with n sides =
(n - 2)180_0
For a regular hexagon, each
interior angle = (6 - 2)180_0
4 x 180<sub>0</sub>
= 120_0 (C)
15. 6x_2 - 14 x - 12
= 2(3x_2 - 7x - 6)
= 2(3x_2 - 9x + 2x - 6)
= 2[3x(x - 3) + 2(x - 3)]
=2(3x +2(x -3) (C)
16. (0.303)_3 - (0.02)_3
= (30.3 \times 10^{-2})_3 - (2 \times 10^{-2})_3
= 30.33 \times 10^{-6} - 23 \times 10^{-6}
= 10-6 (30.33 - 23)
= 10-6
(27810.127)
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= 0.027810

23. 2+3+5=10

Let the number of pencils shared = x

Then 2 X x =5

10

=> x = 5 x 10 = 25 (B)
```

2

OBAFEMI AWOLOWO UNIVERSITY 2010 Post UME MATHEMATICS

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3y - 2x
```

- (a) -1 (b) 7 (c) 1 (d) -7
- 2. The integral values of y which satisfy the inequality 1 < 5 2 2y \le 7 are
- (a) -1, 0, 1, 2 (b) 0, 1, 2, 3
- (c) -1, 0, 1, 2, 3 (d) -1, 02, 3
- 3. If $x_2 5x 6$ $(x a)_2 + b$, the value of b is (a) . (b) 5/2 (c) 2 (d) 3
- 4. The scores of 16 students in a

mathematics test are 65, 65, 55, 60, 65, 60, 70, 75, 70, 65, 70, 60, 65, 65,

- 70. What is the sum of the median and modal scores?
- (a) 125 (b) 130 (c) 140 (d) 150
- 5. Find x if $x_2 2x 15 = 0$
- (a) 3, 15 (b) -3, 5 (c) 1, 15 (d) -2, 15
- 6. A father leaves a legacy of N45 million for his children Peter, David and Paul to be shared in the ratio 7:5:3. What amount in million Naira would each receive respectively?
- (a) N14, N7, N3; (b) N15, N5, N3
- (c) N21, N15, N9 (d) N20, N16, N10
- 7. As 9 tends to zero, what does cos 0 tends to? (a) sin 0 (b) 0 (c) . (d) 1
- 8. The expression $2\cos 0 + \sin 20$ has the numerical value (a) 1
- (b) 2 (c) 4 (d) 0
- 9. If $\tan x = \sin x$ find $\tan (900+x)$,

cos x

for acute value of x

- (a) $-\cot x$ (b) $-\tan x$ (c) $\cot x$
- (d) tanx
- 10. Evaluate the length of perpendicular from A to BC
- 11. The indefinite integral xex, for any real constant c is (a) c
- (b) $e_x + c$ (c) $x_2 + e_x + c$ (d) $e_x (x 1) + c$
- 12. Find the area under the curve (Find the area under the curve $y(x) = \sin x$ between x = 0 and $x = \pi$. (a) 2 (b) 1 (c).-2 (d) π
- 13. Let the letters P, \mathbf{Q} , \mathbf{R} and \mathbf{S} denote parallelogram, quadrilateral, rectangle and

square respectively. Using subset notation, which is these inclusions is correct?

- 14. In a convex polygon with n sides, the sum of interior angles is (a) (n-2)
- Π (b) 2(n-1) Π (c) 4(n-1) Π (d) (2n+4) Π
- 15. Find the equation of the line perpendicular to the line y = 2x + 1 and passing

through a point (3, 1). (a) y = x + 5/2 (b) $y_2x - 5/2$

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(c) y - x + 5 (d) 2y = x + 5
16. What is the distance between points (1, 2) and (4, 5) on a plane? (a) 3\sqrt{2} (b) 2\sqrt{3} (c) 3 (d) 9
```

- 17. Integrate $\int 2 \tan (2x \ \Pi) \ dx$ (a) $2\cot (2x \Pi) + k \ k$
- (b) $\log[\cos(2x \Pi)] k$
- (c) $-\log[\cos(2x \Pi)] k$
- (d) $4 \cot(2x \Pi) \div k$
- 18. Find the values of x for which
- $5 + 2x 3x_2 = 0$
- (a) -2 and 6/5 (b) -1 and 5/3
- (c) -2 and -1 (d) 6/5 and 5/3
- 19. A businessman invested a total of N200,000 in two companies which paid dividends of 5% and 7% respectively. If he received a total of N 11,600 as dividend,

how much did he invested at 7%?

- (a) N 160,000 (b) 140, 000
- (c) N120,000 (d) N80, 000
- 20. If $a\sqrt{5} + b\sqrt{2}$ is the square root of
- 95 $30\sqrt{10}$, the values of a and b are, respectively (a) 5, 2 (b) 2, -5 (c) 5,
- 3 (d) 3, -5
- (a) 3c₂ (b) 17c₂ (c) 2c c₂ (d) c₂
- 22 Express 5y 12 in partial

(y-2)(y-3)

- (a) 2 3 (b) 2 + 3
- y-2 y-3 y-2 y-3
- (c) 2 3 (d) 5 + 4
- y-3 y-2 y-3 y-2
- 23. The second term of an infinite

geometric series is — and the third term is Find the sum of the series.

- (a) 2 (b) 1 (c) 3/2 (d) 2/3
- 24. In the figure AB and AD are tangents to the circle. If BCS = 550and BDC = 480, find BAD.
- (a) 55₀ (b) 70₀ (c) 77₀ (d) 48₀
- 25. Find the area of the triangle:
- (a) 24cm (b) 24cm2 (c) 12cm2 (d) 12cm

Solution

$$\Rightarrow$$
 x - y = -3 (i)
Y - 2x = 5 . . . (iii)

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adding (i) to (ii)
-x = 2
=> x = -2
Putting the value of x in (i)
-2 - y = -3
=>_{y} = -2 + 3 = 1
3y - 2x = 3(1) - 2(-2)
=3+4=7 (B)
2. -1 < 5 -2y \le 7
= > -1-5 < -2y \le 7 - 5
-6 < -2y \le 2
Dividing through by -2 \Rightarrow 3 > y \leq -1
The integral values of y are -1, 0, 1, 2 (A)
3. x_2-5x+6
4. Re-arrange the scores in ascending
5560 60, 60, 65, 65, 65, 65,
65, 70, 70, 70, 70, 75
Median =65
Mode = 65
The sum of the median and modal scores = 65 + 65 = 130
(B)
5 x<sub>2</sub>-2- 15=0
\Rightarrow x2-5x+3x-15=0
x(x-5) + 3(x-5) = 0
=> (x-.5)(x+3)=0
=> x = 5 \text{ or } -3 \text{ (B)}
6. 7+5+3=15
Peter would receive 7/15 \text{ MS} = \text{N21} is
David would receive 5/15 \times N45 = 15
Paul would receive 3/15 \times N45 = 9 (C) 7. cos 0 tends to 1 as 0 tends to zero
(D)
8. \cos 2 + \sin 2 = 1 (A)
15. Slope of the line y=2x+1 is 2.
Therefore, the slope of the straight line perpendicular to it is -.. Using the
equation y - y_2 =
x - x_2
slope, the required equation is
y - 1 = -1
x - 3 2
7-1=1
= 2y - 2 = - x+3
```

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```
=> y = - x + 5
2 2 (A)
16. Distance between points (1,2) and (4,5)
17. \int 2\tan(2x+\Pi) dx
Let du = 2dx
\int 2\tan(2x+\Pi) dx = \int 2\tan u dx
= - In cosu + c
= - \text{In } \cos (2x + \pi) + c (C)
5 + 2x - 3x_2 = 0
18. 5+2x-3x_2 = 0
\Rightarrow 5+5x -3x - 3x2 =0
5(1 + x) - 3x(1 + x) = 0
(5 - 3x) (1 + x) = 0
\Rightarrow 5-3x = 0 or 1 + x = 0
x = 5/3 \text{ or } -1 \text{ (B)}
19. Let the amounts invested at
dividends of 5% and 7% be x and y respectively Then, x + y =
200,000 .... (i)
0.05x + 0.07y = 11,600 \dots (ii)
Multiply (i) by 0.05
0.05x + 0.05y = 10,000 \dots (iii)
Subtract (iii) from (ii)
0.02y = 1,600
\Rightarrow y = 1,600 = 80,000
0.02
The amount invested at 7% is
N80,000 (D)
20. Since 95- 30\sqrt{10} has a\sqrt{5}+b\sqrt{2} as its square root,
(a\sqrt{5} + b\sqrt{2})_2 = 95 - 30\sqrt{10}
5a_2 + 2b_2 + 2ab\sqrt{10} = 95 - 30\sqrt{10}
By comparing both sides
5a_2 + 2b_2 95 \dots (i)
2ab = -30
ab = -15 \dots (ii)
21. By checking (substituting) each of the options, the answer is (D)
22. Let 5y - 12 = A + B
(y - 2 (y - 3) y - 2 y - 3)
5y-12 = A(y-3)+B(y-2) \dots (i)
Put y = 2 in (i)
10 - 12 = -A
=> A=2
Put y = 3 in (i)
15-12 = B(1)
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B=3
Hence, 5y - 12 = 2 + 3 (B)
(y-2)(y-3) y-2 y-3
23. n_{th} term of a G.P. = ar_{n-1} where 'a' is the first term and 'r' is the
common ratio
2_{nd} \text{ term} = \text{ar} = -.... (i)
3_{rd} term = ar_2 = . . . . (ii)
Dividing (ii) by (i) r=-.
Substituting the value of r in (i)
Sum to infinity of a Geometric series
S_{oo} = a
1-r
= 1
1 - (-1/2)
= 1 = 2/3 (D)
3/2
D=55^{\circ} (D)
24 \text{ } ABD = 550
angle in alternate segment
ADB = 550
SAD = 1800 - (AID + Ab5) (sum of
BAD = 180_0 - (ABD + ADB) (sum of
angles in a triangle
= 180_{0} (55^{\circ} + 55^{\circ}) = 180_{0} -110_{0}
=70^{\circ} (B)
```

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- 1. Which of the following phenomena cannot be explained by the molecular theory of matter? (a) evaporation (b) expansion (c) conduction (d) radiation
- 2. The most likely measurement of

length of an object using a vernier caliper is (a) 3.0cm (b) 3.3cm (c)

- 3.33cm (d) 3.333cm
- 3. An 0.040kg string 0.80m long is stretched and vibrated in a fundamental model with a frequency of 40Hz. What is the speed (of propagation) of the wave and the tension in the string? (a) 64m/s (b) 340mls (c)

32m/s (d) 28m/s

- 4. What is the total power output of a source with intensity
- 0.050W/rn2 at a distance of 3.0m

from the source?

- (a) 112W (b) 5.6W (c) 15W
- (d) 30W
- 5. The superposition of two or more

waves to produce a maximum or

point is known as (a) reflection (b) refraction (c) diffraction (d) interference 6. The acceleration due (a) increases with altitude (b) decrease with

increasing altitude (c) Increases with increase in increase in the square of the

altitude (d) Is not affected by the altitude

- 7. Which of the following statements are correct of nuclear fission? During the process
- (a) energy is released
- (b) more neutrons are released

than those that cause fission

(c) small nuclei merge into large

nuclei (d) there is a loss of mass.

- 8. Which of the following statements is not true?
- (a) electric field intensity is force per unit charge
- (b) electric potential is a vector (c) the S.I. unit of electric field strength is $\mbox{N/C}$
- (d) electric field intensity is equal to potential gradient
- 9. Which of the following about electrolysis is false?
- (a) liquid that conduct electricity and are split up chemically by the current are electrolyzed
- (b) the current is brought into the electrolyte by the anode

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- (c) the current is taken away from the electrolyte by the cathode (d) the container which holds the electrolyte and the electrode is the voltmeter
- 10. Which of the following is not true about the properties of x-rays?
- (a) they are not deflected by magnetic or electric field
- (b) they ionized a gas, making it a conductor (c) they are massive
- (d) they have high penetrating power
- 11. A transformer is connected to a
- 240V supply. The primary coil has
- 40 turns, and the secondary is found to be 960V. What is the ratio of the number of turns of the primary coil to the number of turns of the secondary

coil?

- (a) 1:4 (b) 4:1 (c) 1:6 (d) 6:1
- 12. If 21g of alcohol of density
- 0.7gcm is mixed with log of
- water, what would be the density of the resulting mixture?
- (a) 780gcm3 (b) 0.78gcm3
- (c) 30gcm3 (d) logcm3
- 13. For a particle having an x

coordinate that varies in time

according to the expression x = 4t-2t2. The instantaneous velocity for the particle at t = 2.5 is: (a) 12m/s (b) 6m/s (c) 0mIs

- (d) 10 m/s
- 14. A long-jumper leaves the ground at an angle of 200 above the horizontal and
- at a speed of 11m/s. How far does it jumps in the horizontal direction?
- (a) 0.384m (b) 7.94m (c) 8.45m (d) 0m
- 15. A mass of 0.5kg is attached to one end of a helical spring and produces an extension of 2.5cm. The mass now set into vertical oscillation of amplitude 10mm. The period of oscillation is: (g = 10mIs2) (a) 0.33s (d) 280s (b) 100s (c) 200s
- 16. A boat is passing under a bridge. The deck of the boat is 15m below the bridge. A small package is to be dropped from the bridge onto the deck of the boat when the boat is 25m from just below the drop point. What (boat) speed is necessary to have the package land in the boat? (g = 9.8m1s2) (a) 17mIs
- (b) 14mIs (c) 1.7m/s (d) 4.9mIs
- 17. An $0.60 \mathrm{kg}$ rubber stopper is whirled in a horizontal circle of $0.80 \mathrm{m}$ radius at a rate of 3.0 revolutions per second. What is the tension in the string?
- (a) 14N
- (b) 80N (c) 170N (d) 24N
- 18. An automobile is traveling at
- 60km/hr. Calculate the angular velocity of the 0.35m radius wheels. (a)

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16.67 rad/s (b) 47.6 rad/s (c) 21 rad/s (d) 171.4 rad1s
19. An air bubble at the bottom of a lake has a volume of 20cm3, pressure of 4.9Pa, and temperature 4° C. The bubble rises to the surface where the temperature is

 20° C and the pressure 1 .0Pa. Find the volume as the bubble reaches the surface

(Take 1 atm = $1.0 \times 1.05 \text{N/m}_2$) (a) 124cm_3 (b) 3.19cm_2 (c) 60cm_3 (d) 104cm_3

- 20. A gas at constant pressure of 4.0 x 105Pa is cooled so that its volume decreases from 1.6m3 to 1.2m3. What work is performed by the gas? (a) 6.4 x 105J (b) 3.2 x 105J (c) 1.6 x 105J · (d) 0.4 x 105J
- 21. Highly polished silvery surfaces

are: (a) poor absorbers but good emitter of radiation. (b) Good absorbers and good emitters of radiation (c) Poor emitters but good reflectors of radiation (d) Poor emitters and poor reflectors of radiation 22. Which of the following is not true about an object that is projected upwards at angle θ (a) the velocity is maximum at the maximum height (b) the acceleration along the horizontal direction is zero (c) the maximum range (R_{max}) for an object moving with speed u is given by U_2/g (d) the time it

takes to get the maximum height is equal to the time it takes to come back to the point of projection.

23. When three coplanar non-parallel are in equilibrium. Which of the following statements is false? (a) they can be represented in magnitude and direction by the three sides of a triangle taken in order (b) the lines of action meet at a point (c) the magnitude of any one force equals

the magnitude of the resultant of the other two forces (d) any one force is the

equivalent of the other two.

- 24. Which of the following statements is not TRUE about a body performing simple harmonic motion? (a) the linear speed is the product of the angular speed and the radius or amplitude (b) the linear acceleration is the product of the square of the angular speed and the displacement (c) frequency is the number of complete revolution per second made by a vibrating body (d) the S.I. unit of amplitude is Hertz (Hz).
- 25. If the force of gravity of an object of mass m, the gravitational field strength, g,

is given by the following equation:

- (a) $g = \sqrt{mF}$ (b) g = mF
- (c) $g = m \sqrt{F}$ (d) g = F/m

EXPLANATION TO ANSWERS

1 (D) - Conduction is heat transfer by molecular vibration at a fixed

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position and convention by molecular motion. Expansion involves an increase in the separation between molecules. A material medium is not needed for heat transfer by radiation.

2. (C) - Vernier caliper can be used in measuring the diameter of a rod or the inside diameter of a tube. Its reading is always in two decimal places where the second decimal place is given by the number on the vernier scale which coincides with a major scale mark.

3. In fundamental note, fo, L = $\lambda/2$

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ANSWER KEY
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1. D 2. C 3. A 4. - 5. D
6. D 7. - 8. B 9. D 10. C
11. A 12. B 13. B 14. B 15. A
16. B 17. C 18. B 19. D 20. C
21. D 22. A 23D 24. D 25. D
7 The equation is incompletes
8 B - Electric potential is a scalar quantity
```

```
9 D
10 C
Ration n_p: n_3 = 40: 160
= 1: 4 (A)
Density = Mass / volume
Volume of alcohol = 210 = 30 \text{cm}_3
0.7 \, \text{gcm}-3
Volume of water = 210 = 10 \text{cm}_3
1.7gcm-3
Total volume of mixture 30+10=40cm<sup>3</sup>
Mass of mixture = 21g + 10g = 31g
Density = 3 \frac{1}{40} = 0.775 \text{gcm}{-3} (B)
13 x = 4t 2t_2
2x = 4t - 2t_2
2t
= 4 - 4t = 4 - 4(2.5) = -6m/s
Velocity = 6m/s (B)
14. Range, R = U_2 \sin 2\theta = (11) 2 \sin (2) (20)
g 9.8
=7.94m (B)
15. For helical spring,
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OBAFEMI AWOLOWO UMVERSITY 2006 POST UME TEST CHEMISTRY

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- 1. All the following will liberate a gas when reacted with dilute hydrochloric acid except a) Sodium tetraoxosulphate(VI) salt b) Sodium trioxocarbonate(IV) salt c) Sodium suiphide d) Sodium trioxonitrate(V)
- 2. The isomer of a compound C₅H₁₀ which does NOT decolorize bromine water is
- a) 2-methylbutane b) 2,2- dimethyipropane c) 2-methylbut- 1-ene d) Methylcyclobutane
- 3. A mixture of nitrogen, oxygen and helium contains 0.25, 0.15 and 0.4 mole of these gases respectively. If the pressure contribution due to oxygen was
- 2.5 atm. The partial pressure of helium is a)4.0 atm b)0.8 atm c)3.33 atm d) 6.67 atm
- 4. Elements P has atomic number of 12 while element Q has an atomic number 15. Combination of P and Q gave a compound

PmQn. the respective values of m and n are a) 2and2 c) 3and2 c

5. CH_x90₂-6CO₂+ 6H₂0

The hydrocarbon, CH in the reaction above is most likely

- a) Analkane b)abenzene
- c) analkene d)analkyne
- 6. A 5 12cm3 sample of a gas weighed 1.236g of 20° C and a pressure of one atmosphere. The reactive molecular mass of the gas is [R = $8.314kJk_{-1}$, I atm
- $= 101, 325 \text{Jm}_{-3}$
- a) 58.07 b) 588.367
- c) 5.88 d) 197.9
- 7. The amount of methane molecules, Cl4 in 8.0grams of methane is
- a) 8mol b) 128mol
- b) 2 and 3) 2 and 1
- c) 0. Smol d) 3. 01 x 1023mol
- 8. The concentration of a solution obtained by dissolving 0.53g of pure anhydrous Na2CO₃ in water to make 250cm₃ of solution.
- a) 2.0 x 10-5 mol dm-3
- b) 2. 1gdm-3
- c) 2.0 x 10-2 mol dm-3
- d) 5.0 x 10-3 mol dm-3
- 9. What is the maximum volume of CO_2 at s.t.p. that can be obtained when dilute hydrochloric acid is added to $10 \, \mathrm{grams}$ of $CaCO_3$? [Ca=40, C=12, 0 = 16]
- a) 2.24 dm₃ b) 22.4 dm₃
- c) 0.224 dm3 d) 22.4dm3
- 10. Sulphur (IV) oxide travels a given distance in 10sec. How long will it take equal

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volume of helium to travel the same distance under the
same conditions?
[S=32, 0=16, He=4]
a) 1.6sec b)40sec
c) 5.0sec d) 2.Ssec
11. The volume of hydrogen gas produced at s.t.p. when 100cm of 2M
hydrochloric acid reacts
with excess zinc is
a) 2.24dm<sub>3</sub> b) 4.482.24dm<sub>3</sub>
c) 1.12dm3 d) 4.8dm3
12. During electrolysis, two cells each containing molten A1203 and fuse CaC12
were connected in series. A current of 15Amp was passed through the cells for
given period of time. At the end of the electrolysis 9g of calcium was
found to have been deposited at the cathode what mass of aluminium would be
deposited in the second cell [Al=27, Ca=40]
a) 8.82g b) 4.44g c) 17.60g d) 4.05g
13. The balanced equation for the reaction of tin(ii) salt with potassium
ptaoxodichromate(VI) in a acidic medium can be represented as eSn2+
fCr_2O_7 + gH_+ \rightarrow hSq_+ iCr_{3+} + jH_2O_e, f, g. h, i and j are respectively
a) 3, 5. 6. 3, land4
b) 3. 1. 14.3, 2and7
c) 3, 2, 6, 1, 5 and 6
d) 5. 2, 1, 5, 3and2
14. The pH of a solution containing 0.5 x 10-6 M H<sub>2</sub>SO<sub>4</sub> is
a) 6.3 b) 6.5 c) 6.0 d) 5.0
15. Which of the following oxides will NOT dissolve in both dilute
hydrochloric acid and 2M sodium hydroxide solution?
a) Lead (II) oxide b) Aluminium oxide c) Zinc(II) oxide d) Calcium oxide
16. The I.U.P.A.C. name for the compound
is
a) Pent-3-enoic acid
b) Pent-4-enoic acid
c) Pent-2-enoic acid
d) Pent-3-ene-1-oic acid
17. Metal salts of long chain fatty acids are known
a) Detergents b) double salts c) soaps d) grease
a) CHCOOH and CH3CH2CH2OH
b) CH3COOH and CH3CH7CH3
c) CH3COOH and CH3CH2OH
d) CH3COOH and CH3CH2CH2CI
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- of oxidation of
- a) butan-3-ol
- b) butan-I-ol
- c) 3-methylpropan-2-ol
- d) Butan-2-ol
- 20. Which of the following structural formulas is NOT isomeric with the others?
- a) CH3CH2CH2CH2-OH
- b) CH₃-O-CH₂CH₂CH₃

The curve above represents the solubility curve of KCIO₃. The number of moles of

KCIO $_3$ crystals produced by cooling 200cm $_3$ of a saturated solution of the salt from 65° C to 25° C is

- a) 6.30mole b) 3.26mole
- c) 0.63mole d) 7.30mole
- 22. During a compression process involving an ideal gas at pressure P1, when

volume, V of the gas was halved, the temperature in Kelvin increases by half its initial

value. The final pressure P2 is given by

- a) 3P₁ b) 12P₁ c) 6P₁ d) 1.5P₁
- 23. Cellulose and starch can be classified as one of the following:
- a) Hydrocarbons b) sugars
- e) carbohydrates d) alkaloids

Answer Key

- I. D 6. A 11. A 16. C 21. B
- 2. D 7. D 12. D 17. C 22. A
- 3. D 8. C 13. B 18. A 23. C
- 4. C 9. A 14. C 19. D 5. C 10. D 15. D 20. C

Explanation to the Answers

- 1. The equations of the reactions are represented below:
- a) $NaSO_4 + 2HCI \rightarrow 2NaCI + H_2O + SO_3$
- b) HCI+NaSO₄ →NaCI+H₂O+CO₂
- c) HCI + Na₂S → NaCI + H₂S
- d) NaNO₃ + HCI→ HNO₃ + NaCI
- 2. Bromine water is used to test for unsaturation in organic compounds. C_5H_{10} tested

negative to bromine water indicates that the compound has one double bond equivalent

and must be a cyclic compound (D)

3. Total No. of mole = 0.25 + 0.15 + 0.4 = 0.8mole

Partial pressure of oxygen =

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= 6.66atm (D)
4. P = 12 = 1S_22S_22P_63S_2Q = 15 = 1S_22S_22P_63S_23P_3
Element P have 2-electrons in its outermost shell. Element Q have 5-electrons
outermost shell. Element Q needs 3-electrons to go to octet configuration. It
will need 6-
electrons from 3-atoms of P to complete its configuration while 2atoms of Q is
needed
P_3Q_2 (C)
X = 6 \& y/2 = 6
Y = 12
C_6H_{17} (Alkenes) \rightarrow n-hexene (C)
6. Vol = 0.512dm_3 = 0.512m_3
T=20+273 = 293K
Pressure = 1atm = 101, 235tm-3
= 0.02 19 \text{mole}
Relative molecular mass = Molar mass =
1236g = 58.07 (A)
0.0129 mol
7. No. of mole = 80g = 0.5 \text{ mole}
16mo1-1
1mole of methane molecules contains
6.02 x 1023 molecules of methane
0.5 moles of methane molecules will contain
= 0.5 \times 6.02 \times 10_{23} molecule
= 3.02 \times 10_{23} molecule (D)
8. Molar mass of Na<sub>2</sub>CO<sub>3</sub>
= (23 \times 2) + 12 + (12 \times 3) = 106gImo1
No. of mole = 0.53 = 5 \times 10^{-3} \text{ mole}
106
Conc. In mo1/dm_3 = No of mole
Vol indm3
= 5 \times 10^{-3}
250/1000 dm_3
9. 2HCl_{(aq)} + CaCO_3 \rightarrow CaCI_2 + H_2O + CO_2
2 mole 1 mole 1 mole 1 mole
No. of mole of CaCO_3 = 10 = 0.1 mole
1 mole of CO<sub>2</sub> is produced in 22.4dm3 at stp 0.1mole of CO<sub>3</sub> will be produced in
01mole x22.4.dm
1rnole
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= 2.24 dm_3 of CO_2 (A)
10. Vapour density . x 64 = 32 = pso2^{\circ} f SO_2
Vapour density of helium = .x4 = 2 =PHe
10 = x
x = 2.5 secs (D)
11. 2HC1_{(aq)} + Zn_{(s)} \rightarrow ZnCI_2 + H_{2(g)}
2 mole I mole 1 mole
No. Of mole of HCI=2mole. dm-3 x 100dm3
1000
= 0.2 \text{mole}
2 mole of HCI produces I mole of hydrogen gas
0.2mole of HCI produces 0.1/mole of H2
1 mole of 112 produces 22.4dm3 of stp
0.1 mole of H2 will require
22.4dm4 x 0.1mole
1 mole
= 2.24 dm3(A)
12. Ca<sub>2+</sub>
(ag) + 2e \rightarrow Ca(S)
No. of mole of Ca_{2+} = 9/40 = 0.225mole
1 mole of Ca Ca2+
(aq) deposited by 2F
0.225mole of Ca2+ will be deposited by
2F \times 0.2 \times 25 = 0.450F
A1_{3+}
(aq) + 3e \rightarrow Al(s)
3F of. Al deposited by 1mole
If of Al will be deposited by
1/3 \times 0.45F \text{ mole}
1F
0.150mole
Mass of aluminium deposited =0.150mole x 27
= 4.05g (D)
13 \text{ eSn}_{2+} + \text{fCr}_{2}O_{2}
-. + gH+ hS<sub>4+</sub> + cCr<sub>3+</sub> jH<sub>2</sub>O Sn<sub>2</sub> - Sn<sub>4+</sub> 2c- ·····. (i)
6e +Cr207
2-. + 14H→ 2Cr<sub>3++</sub> 7H<sub>2</sub>O.... (ii)
Multiply equation (i) by 3 and add to equation ......(ii)
3Sn_2 + 14W_+ + Cr_2Q_+ + 6e_- 3Sn_{3+} + 6e_- +
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2Cr_{3+} + 7H_2O (B)
14. H_2SO_4 \rightarrow 2H_+ + SO_2
Imole 2 mole
0.5 \times 10^{-5} \text{mo} 1/\text{dm}_3 2 \quad (0.5 \times 106 \text{mo} 1/\text{dm}_3)
[H] = 1.0 \times 10^{-6} \text{mo} 1/\text{dm}
pH = 1.0 \times 10-6mo1/dm_3
pH = -log[1x 10-6]
= 6\log 10 - \log_1
=6 - 0 = 6(C)
15. Lead(II) oxide, aluminium oxide and zinc oxide are amphoteric oxide, they
behave
both as basic oxides and as acidic oxides while CaO is basic oxide, it only
react with
dilute acid, hydrochloric and not with sodium hydroxide(D)
17 Saponification is the neutralization of fatty acids with NaOH to form long
chain metal
salts of fatty acid (C)
from the oxidation of secondary alcohol. There is nothing like butan-3-ol,
butan-1-ol is
primary alcohol, 3-methylpropan-2-ol is a wrong JUPAC nomenclature, butan-2-ol
is the
only secondary alcohol present (D).
20. Option A, B and D have C4H10O - molecular formula while C - have C4H8O(C).
21. Solvent + solute = solution
At 65^{\circ} C
Solubility=7mol/. dm3 of 200cm3 of KClO3
No. of mole 7mol/dm3 x 200 dm3
1000
= 1.4 \text{ mole of } KCIO_3
Mass of KCIO<sub>3</sub> crystals=1.04molx 122.5g/mol = 171.5grams
At 25^{\circ} C
1mol/dm3 of 200cm3 of KCIO3
No. of mole = 1 \text{mol/dm}_3 \times 200 \text{ dm}_3
1000
= 0.2 mole
Mass of KCIO<sub>3</sub> crystal = 0.2mol x 122.5g/mol = 24.5grams
Mass of crystals = 171.5 - 24.5
= 147.0g
No of mole = 147g = 12mole (B)
122.5g/mo1
22. P_1 = P_1 V_2 = V_1
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P_1=\ V_1\ T_2=\ .\ T_1 T_1=\ T_1 P_2=\ P_1V_1T_2=\ P_1x\ V_2\ x\ 3/2\ V_2 T_1V_2\ V_2\ x\ .\ V_1 UNIVERSITY OF LAGOS 2006 POST UME PAST
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1. A mixture of solutions of barium chloride and sodium trioxocarbonate ${\it IV}$ yield a white

precipitate

- a. Soluble in ammonia
- b. soluble in dilute hydrochloric acid
- c. soluble in alkali
- d. soluble in dilute tetraoxosulphate VI acid
- 2. Four solutions P. Q, R, and S contain chloride, sulphide, tetraoxosulphate VI and

trioxocarbonate IV respectively. One reagent that will identify only one of them

completely by a precipitation reaction is

- a. Potassium hydroxide solution
- b. Dilute tetraoxosulphate (VI) acid
- c. Dilute trioxonitrate (V) acid
- d. Lead trioxonitrate (V) solution
- 3. Which of the following is true of alkalis
- a. They have a sour taste
- b. They liberate ammonia when added to ammonium chloride
- c. TheirpHis7
- d. They turn phenlphthalein colourless
- 4. Real gases do not obey the ideal gas laws at
- a. High temperature
- b. Low temperature and high pressures
- c. Low pressures
- d. High temperatures and pressures
- 5. A 3.0 g mixture of sodium trioxocarbonate (IV) and calcium trioxocarbonate (IV)

liberated 0.44g of carbon IV oxide on strong heating until no more gas was evolved.

What is the percentage of sodium trioxocarbonate IV in the mixture? [Ca = 40, C= 12,0=

16, Na=231

- a. 67 b. 23 c. 76 d. 32
- 6. Which of the following planets contains a

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large amount of solid methane?

- a. Jupiter
- b. Neptune
- c. Pluto
- d. Saturn
- 7. What change will occur during the electrolysis of brine using carbon electrodes?
- a. Chlorine will be given off at the cathode
- b. Oxygen gas will be given off at the anode
- c. Sodium will be deposited at the cathode
- d. The volumes of hydrogen and chlorine given off during the same time are equal
- 8. Nuclear reactions can be used in the

following except

- a. gauging the thickness of objects
- b. making atomic bombs
- c. curing cancer
- d. purifying water
- 9. Which of the following is a good conductor of electric current?
- a. Mixture of petrol and kerosene
- b. Aqueous solution of sugar
- c. Mixture of ethanol and water
- d. Aqueous solution of table salt
- 10 The pH value of an aqueous solution of to compounds remains at 5 even when contaminated with small quantities of acid or alkali. Which one of the following pairs
- Of compounds would produce such a solution?
- a. Ammonia and ammonium chloride
- b. Ethanoic acid and sodium ethanoate.
- c. Hydrochloric acid and sodium chloride
- d. Potassium hydroxide and potassium, bromide.
- 11 A mixture of gases contains 64g of methane, 64g of oxygen and 64g of sulphur
- dioxide. The pressure of the mixture is 210kPa. What is the partial pressure (in

kPa) of the methane expected to be?

- a. 30 Mr (CH4) = 16
- b. 60Mr(02)=32
- c. 70 Mr (S02) = 64
- d. 120
- 12. One of these properties is unique to carbon alone
- a. Polymerization
- h. Condensation

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- c. Catenation
- d. hydrogenation
- 13. Consider the equation

CHCOOH + CH3OH- CH3COOCH3 + 1120

14g of ethanoic acid reacted with 25g of methanol to give 8.5g of ester What is the percentage yield of ester? (C = 12, H = 1,0 = 16)

- a. 49.24% b. 46.7%
- c. 35.8% d. 40.67%
- 14. A student prepares a sample of H₂ gas by electrolyzing water at 25° C. She collected 152 ml at a total pressure of 758mmHg. Vapour pressure of H2) at 250 $^{\circ}$ C is 23.76mm Hg. Calculate the partial pressure of H2, gas.
- a. 756.24mmHg b. 758.24mmHg
- c. 734.24mmHg d. 760mmHg.
- 15. The slippery nature of graphite is attributed to
- a. Covalent bonding
- b. Preserve of sp2 hybridized carbon
- c. Layer covalent bonding
- d. Network covalent bonding Answer Key
- 1. B 6. C 11.
- 2. D 7. D 12.
- 3. A 8. D 13
- 4. B 9. D 14
- 5. A 10. B 15

Explanations to the Questions

- 1. $BaCl_2 + Na_2CO_3$ -, $2NaCI + BaCO_3$ White precipitate of $BaCO_3$. This is soluble in excess HC1 (B).
- 2. Lead trioxonitrate (V) solution is used identifying sulphide. The paper turns black due to formation of black lead (II) sulphide

(D)

- 3. Alkalis have sour taste. This is one of the properties of alkaline compounds (A)
- 4. Most real gases deviate from ideal gas law at low temperature and high pressure because these conditions would cause the gas to condense and turn to the liquid state (B)
- 5. NaCO3 and CaCO3, Na2CO3 cannot be decomposed by leading. CaCO3 liberate CO2 on heating.

 $CaCO_3 \rightarrow CaO + CO_2$

No of mole of $CO_2 \ 0.44 = 0.01 \ 44 \ mole$

Mass of $CaCO_3 = 0.01 \text{ X } 100 = 1.0g \% CaCO_3 = x100\%$

= 33.3%

 $\% \text{ NaCO}_3 = 100 - 33\%$

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= 66.6 = 67\% (A)
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6. Pluto is the smallest planet as well as the farthest from the sun. Pluto probably has a surface temperature of about 2200 C on the Sun light region. Its body probably containing a large amount of solid methane (C) 7 NaCl =

At the cathode, H+ being lower in the activity series, discharge in preference to Na+

At the anode, even though both CF and OH migrate to this electrode, Clbeing present in greater concentration than O11 is discharged in presence to OH $2C1- \rightarrow C1_{2(g)} + 2eOAU$

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It should be noted that some discharge of OH-occurs in electrolysis This equation explains the reason for the volume of chlorine to be less than that of hydrogen. Ideally, the volume of the Cl₂ should be produced in equal volume here

(D)

8. D

9. Table salt (NaCl) is ionic in nature, it will conduct electricity in its ionized

form i.e. it is an electrolyte (D)

10. The compound/solution that exhibit this property is called buffer solution and it

is formed by weak acid and base that undergo partial dissociation e.g. $CH_3COOH + Na_2CO_3 CH_3 COONa + H_2O + CO_2$ (B)

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1. Consider the reaction $2A(g) B(g) + C(g) \Delta H + 25 .6kJ$

Which of the following changes will favour the formation of the products of the reaction

represented above, at equilibrium?

- a) Decrease in temperature
- b) Increase in pressure
- c) Increase in temperature
- d) Decrease in volume
- 2. An element 2X undergoes radioactive decay by emitting two alpha particles and a beta

radiation. Which of the following nuclei correctly describe the product formed by the

reaction?

3. Which of the following alkanols will not undergo oxidation reaction by acidified

K2Cr2O7?

- a) CH₃CH₂CH (OH) CH₃
- b) CH₃CH₂CH₂CH₂OH
- c) CH₃CH₂CH₂C (CH₃) (OH) CH₃
- d) None of the above
- 4. The electronic configuration of the specie underlined as in the molecule ${\it H2S}$ is
- a) 1 s22s22p63s23p63d104s24p4
- b) 1s22s22p63s23p4
- c) 1s2s22p63s23p2
- d) 1s₂2s₂2p₆3s₂3p₆
- 5. The functional group(s) of an amino acid is/are
- a) NH₂. -COOH
- b) CnH2n+1, COOH
- c) -COCI, -COOH
- d) COOH, CONH2
- 6. A student while trying to identify two gases

labeled A and B, found that gas A is acidic to litmus paper and turn acidified potassium

dichromate solution green, while gas B turns red litmus paper blue and forms dense white

fume with hydrogen chloride. The correct identity of A and B respectively are

- a) CO2 and N2
- h) SO and NH3

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- c) HCI and NH3
- d) NO7 and PCI5
- 7. Which of the following titrations will have a solution with a pH greater than 7 at the

end point (equivalence point) of the titration?

- a) Titration of sodium hydroxide with tetraoxosulphate(VI) acid
- b) Titration of sodium trioxocarbonate(IV) with hydrochloric acid
- c) Titration of sodium hydroxide with oxalic acid (ethanedioic acid)
- d) Titration of ammonium hydroxide and trioxonitrate(V) acid.
- 8. 70 cm3 of hydrogen are sparked with 25 cm3 of oxygen at stp. The total volume of the residual gas is
- a) 20 cm3 b) 35 cm3
- c) 45cm3 d) 25 cm3
- 9. A solution X, on mixing with $\operatorname{AgNO3}$ solution, gives a white precipitate soluble in
- NH3. A solution Y when added to X, also gives a white precipitate which is soluble on

boiling. Solution Y contains

- a) Ag b) Pb2 c) Pb4 d) Zn2
- 10. Which of the following statement is an exception in the assumptions of the kinetic

theory of gases?

- a) The particles are of negligible size
- b) The particles are in constant random motion
- c) The particles are of negligible mass
- d) The particles collide with each other
- 11. A saturated solution of AgCI was found to have a concentration of $1.30~\mathrm{x}$ mol dm3.

The solubility product of AgCI therefore is

- a) 1.30 x i05 mol2 dm6
- b) 2.60 x 10.12 mol2 dm6
- c) 1.30 x i0 mol2 dm6
- d) 1.69 x 10.10 mo12 dm6
- 12. 0.06g of a hydrocarbon occupies 32cm3 at s.t.p.. Its formula is
- a) C3H6 b) C2H2 c) C3H4 d) C2H6 13. 13 Consider the following compounds
- (i) CH₃CH₂C (CH₃) CH₂CH₃
- (ii) CH₃CH₂CH₂CH₃
- (iii) CH₃CH (CH₃) C (CH₃) 2CH₃
- (iv) **CH₃CH** (CH₃) CH

The correct arrangement of the compounds in their increasing order of volatility is

a) iv. ii. i. iv

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- b) iii, i, ii, iv
- c) ii, i, iii, iv
- d) iii. i. iv. ii
- h) iii. i. ii. iv
- 14. Which of the following processes leads to increase in entropy?
- a) $2HNO_2 + 2H1 \rightarrow 2H_2O + 2NO + 12$
- b) Zn + H2SO₄→ZnSO₄ + H₂
- c) BaCI₂+2AgNO₃ \rightarrow AgCI₂ + Ba(NO₃)₂
- d) $4\text{Fe}0+0_2 \rightarrow 2\text{Fe}_20_3$
- 15. Which of the following processes leads to increase in entropy?
- a) Mixing of a sample of NaCI and sand
- b) Condensation of water vapour
- c) Boiling of a sample of water
- d) Cooling a saturated solution
- 16. Which one of the following statements is true?
- a) Most solids have low densities
- 5) Most gases are ionic compounds
- c) Solids, like liquids and gases, do not have fixed shapes and fixed volumes
- d) Gases do not have their own shape but rather expand to fill the shapes of their

containers uniformly.

- 17. A liquid begins to boil when
- a) Its volume is slightly decreases
- h) Its vapour pressure is lower than the external pressure
- c) Its vapour pressure equals the external pressure
- d) Its molecules start escaping from the surface
- 18. An element which exists in more than one crystalline form is said to exhibit
- a) Polymorphism b) isotopy
- c) allotropy d) isomerism
- 19. Which of the following is an example of a chemical change?
- a) Freezing of water
- b) dissolution of NaCI in water
- c) rustingofiron
- d) separating a liquid mixture by distillation.
- 20. The electronic configuration in the ground state of the chloride ion (CF) is
- a) Is₂ 2s₂ 2p₆ 3₂ 3p₅
- b) 1s₂ 2s₂ 2p₆ 3s₂ 3p₆
- c) 1s₂ 2s₂ 2p₆ 3s₂ 3p₇
- d) 1s₂ 2s₂ 2p₆ 3d₈

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- 21. The oxidation number of oxygen in BaO2 is
- a) -2 b) -4 c) -1 d) 0
- 22. Which ONE of the following statements is true for the p-block elements?
- a) Electronegativity increases as we go down a group
- b) Electronegativity increases regularly from left to right across a period
- c) Electronegativity decreases regularly from left to right across a period
- d) Electronegativity remains almost constant across a period.
- 23. The general formula for carboxylic acids is
- a) Alkanone
- b) Alkanal
- c) Alkanol
- d) alkanoate

ANSWER KEY

- I. C 6B. 11. D 16. D 21 C
- 2. C 7. C 12. A 17. C 22B
- 3. C 8. A 13. D 18. C 23. C
- 4. D 9. B 14. C 19. C 24B
- 5A. 10. C 15. C 20. B

Explanation to Answer

1. The reaction is endothermic in the forward direction hence an increase in temperature

will favour the forward reaction. The change in pressure will have no effect since the no

of mole of gaseous component on both side of the equation is equal (C)

3. Tertiary alcohol will not undergo oxidation reaction by acidified K2Cr2O7, option A is

secondary alcohols B - is primary alcohol while option C is a tertiary alcohol (C).

4. H₂S Sulphur in the compound has gained two electrons we have S_2 18 electrons S_2 -

1S₂ 2S₂ 2P₆ S₂3P₆ (D).

5 A

6 A Acidic to litmus paper and turn acidified K₂Cr₂O₇ green B - turns red litmus paper

blue and form dense white fume with HCL. Compound A is acidic in nature and a reducing agent, the only correct compound in the option is SO_2 while B — is base and

production of dense white fume with HCL confirms the presence of NH3 gas (B).

7 NaOH + H₂SO₄ →strong base vs strong acid (pH₄ to pH₁₀)

Na₂CO₃ + HCL →weak base vs strong acid (pH4 to7)

NaOH + (COOH)₂ → strong base Vs weak acid (pH7to 11)

NH₄OH + HNO₃ → Weak base vs strong acid (pHI4 to 7)

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8 $2H_{2(g)} + 0_2 \rightarrow 2H_2O_{(6)}$ Combining Volumes 2 mole 1mole 2mole Volume before sparking $70cm_3$ 25cm₃

Reacting volume 50cm3 25cm3 50cm3 Volume after spark 20cm3 ---- 50cm3 Residual gases = unreacted hydrogen =20cm3+ (A).

9. $X + AgNO_3$ - White precipitate soluble in NH $_3$ confirmed the presence of C1- Y + X - White precipitate which is soluble on boiling, A metallic salt of chloride is

formed. All common chloride salts are water soluble except $AgCI_4$ and $PbCl_4$ which are

only soluble in hot water (B).

10. C

22400cm3 of Hydrocarbons contains Imole 32cm3 of Hydrocarbon will contain 32cm3 X 1 mole

22400cm3

 $= 1.428 \times 10^{-3} \text{ mole.}$

006g

Molar mass= $1428 \times 10^{-3} = 42 \text{gmol}_{-1}$ (A)

The molar mass correspond s with that at C3H6 (A).

13. Volatility decrease as the intermolecular forces in compound becomes stronger.

iii and i are isomers with molecular formula, C7H16 while ii and iv are isomers corresponding to molecular formula C4H. Generally, volatility decreases as molecular

weight increases (branching not with standing). Hence iii and i are less volatile than iv

and ii. Therefore, it is more volatile iv because of presence of branching in iv while i is

more volatile than iii

because of increase of branching in iii (D).

14 Option C is a precipitation reaction, in which the oxidation state of the reactions is the

same with that of the product (C).

15. Boiling of a sample of water increase its entropy because their will be change in the

physical state of water from solid to liquid and to gaseous form (C). 16. D

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17. When a liquid is heated, the rate of evaporation increases. The saturated vapour

pressure if liquid also increases until a temperature is reached at which it equals the

prevailing atmosphere pressure. When this happens, bubbles of vapour form in the liquid

and rise to the surface, this liquid is then said to BOIL. (C).

18. C

19. A chemical change is one in which new kind of matter is formed. All other reactions

are physical change because the reaction can go back to the starting product while the

process of rusting of Iron can not be easily reversed. (C).

20. Cl- - 18 electrons gain one electron

1S₂2S₂ 2P₆3S₂ 3P₆ (B).

21. $BaO_2 \rightarrow + 2 + 2x = 0$

2x - 2

 $X = -1 \cdots (C)$.

22. Electronegativity increases across the period this is the reason for the high

electronegativity of both chlorine of fluorine. (B).

24. C

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- 1. Inter-atomic combinations involve the
- a) Neutrons in the nucleus only
- b) Protons in the nucleus only
- c) Electrons in the outer shell only
- d) Electrons in all the shells
- 2. Which of the following is not a

characteristic property of ionic compounds?

- a) Solubility in polar solvents
- b) Low melting points
- c) Conduction of electricity in aqueous solution
- d) Fast reactions in solution.
- 3. The compound with the highest ionic

character among the following is

a) PCI₅ b) CCI₄ c)BCI₃ d)

CsCI

- 4. Why is the hydrogen gas not found in the atmosphere? It readily reacts with
- a) Carbon(IV) oxide b) oxygen
- c) Nitrogen d) carbon(II) oxide
- 5. Apart from water, the other product(s) of the neutralization reaction between NaOH

solution and nitrogen(IV) oxide is/are

- a) NaNO2
- b) NaNO3
- c) NaNO3 and HNO3
- d) NaNO2 and NaNO3
- 6. Silver trioxonitrate(V) on heating, gives
- b) Ag₂NO, N₂
- a) Ag, N_2O and O_2 and O_2
- c) Ag₂O and N₂O d) Ag, NO₂ and O₂
- 7. The most reactive halogen is:
- a) Cl₂ b) Br₂ c) F₂ d) O₂
- 8. 0.79g of a gas at s.t.p. occupied a volume of

250cm3. What is the relative molecular mass of the gas?

- a. 17 b. 32 c. 64 d. 71
- 9. The relationship between the density (d) of a gas and the rate (r) at which the gas

diffuses

is

a. R=Kd b. r=Kc-1/2

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- c. r = Kd . d. r = Kd-1
- 10. The pressure exerted by a sample of a gas confined in 5.86dm3 container at 20° C is
- 4. Iatm. what is the number of moles of the gas in the sample? ($R = 0.082 dm_3 atm moF_{-1}$

 K_{-1}

- a. 1.00 b.2.00 c.3.00 d.4.00
- 11. $50 \, \mathrm{cm}_3$ of hydrogen are sparked with $100 \, \mathrm{cm}_3$ of oxygen at 110° C and 1 atm. If the

whole reaction mixture passes through an alkaline solution of pyrogallol, the volume of

the residual gas is

- a. 12cm³
- b. 100cm³ c. 75cm³ d. 50cm³
- 12 The decreasing order of the magnitude of energy changes is
- a. Phase, chemical, nuclear
- b. Chemical, nuclear, phase
- c. Nuclear, phase, chemical
- d. Nuclear, chemical, phase
- $13.\ 0.92\mathrm{g}$ of ethanol raised the temperature of $100\mathrm{g}$ of water from $298\mathrm{K}$ to $312\mathrm{K}$ when

burned completely. What is the heat of combustion of ethanol?

a. +300kJ mol-1 b). +3000kJ moF-1 c. -300kJ mol-1 d. -3000kJ mol-1 (C = 12; H 1; 0= 16,

specific heat capacity of water = 4.2kJg-1Kj

- 14. The highest level of molecular disorderliness is found in
- a. ice at -10° C b. water at 1000° C
- c. steam at 100 C d. ice at 0 C
- 15. A reaction is spontaneous at all temperature if
- a. $\Delta G=0$ b. $\Delta G>0$
- c. $\Delta S < 0 \& \Delta H > 0$ d. $\Delta S > 0 \& \Delta H < 0$
- 16. Which of the following reactions of marble with fastest?
- a. 5g of marble lump at 500° C
- b. 5g of marble powder at 5 00° C
- c. 5g of marble powder at 25° C
- d. 5g of marble lump at 25° C
- 17. $A(g) + 2B(g) \rightarrow C(g)$

In the reaction represented by the equation above, the rate of appearance of C is found

experimentally to be independent of the concentration of A and to increase four folds

when the concentration of B is doubled. The rate law for the reaction is a. Rate = $K[A]_0[B]_4$ b. Rate = $K[A]_{10}[B]_2$ c. Rate = $K[A][B]_2$ d. Rate = $K[A]_2[B]_0$

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18. How is the equilibrium constant for the forward reaction of an equilibrium (K_f) related to that of the reverse react (Kr)? a. (K_r) is the additive inverse of (K_f) b. (Kr) is the multiplicative inverse of (Kf) c. (K_r) is the same as (K_f) d. The product (K_r) and (K_f) is zero. 19. What is the concentration of OH ions of an aqueous solution of pH 4.4? a. 9.600 x 10-10 mol dm3 b. 2.512x 10-10moldm3 c. 9.600 x 10-11 mol dm3 d. 2.5 12 x 10-11 mol dm3 20. An acid and its conjugate base a. Are oppositely charged b. Differ only by a hydroxide ion c. Differ only by an electron d. Differ only by a proton 21 A complex salt is a. KAI (SO₄). 12H₂O b. Cu (NH₃)₄ Cl₂ c. K₂S₂O₃). 5H₂O d. Mg (OH) C1 22. What happens to the conductivity of an electrolyte as its concentration reduces? a. Increases b. decreases c. is unaffected d. becomes resistivity 23. If the cost of electricity required to deposit 1g of aluminium is N4.00, how much would it cost to deposit 24g of copper? (Al = 27, Cu = 64) a. N27.02 b. n37.02 b. n47. 02D. 57. 02 d. 57. 02 24. The overall reaction in an electrochemical cell is $Mg(s) + Cu_{2+}$ $(aq) \rightarrow Mg_2$ (aq) + CU(S)What is the symbolic representation of the cell? 25. Which of the following metals can be used as sacrificial cathode for preventing corrosion of a length f iron pipe? a. Ag b. Cu c. Mg d. Mn 26. A particle that contains 8 protons, 9 neutrons and 7 electrons could be

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written as

27. The solubility product of a sparingly soluble salt, MX2 is 1.09 x mol3 dm at 25° C.

What is the solubility of the salt at 25° C?

- a. 3.0 x 10 mol dm3
- b. 3.0 x i03 mol dm3
- c. 6.0x 109moldm3
- d. 6.0 x 10- mol dm³

Answer Key

- 1C 6D 12D 17C 22A 27B
- 2D 7B 13D 18A 23A
- 3D 9B 15D 20A 25C
- 48 IOA 168 21B 26B

Explanation to the Questions

1. It is the electrons in the outer most shell of an atom that take part in bonding and

interatomic combination c

2. Ionic compounds are formed between two ions of atoms having a large electronegativity differences e.g. metals and non-metals. They are usually hard solids

with high melting points or liquid with high boiling points (B)

3. Since electropositivity increase down the group, ceasium is the only metal in the

compounds. PCls, CCI4 and BCI4 are all covalent molecules by CsCl is an ionic compound(D)

4. This is due to the fact that hydrogen readily combine with oxygen. Hence, it occurs as

water, acids and organic substances (B)

5. $2NaOH + 2NO_2 \rightarrow NaNO_3 + NaNO_2 + H_2O$

NO₂ is a mixed acid anhydride, it reacts with alkaline to yield a corresponding mixture of

dioxonitrate(III) and trioxonitrate(V) salts

7. Fluorine is the most reactive of the halogen group, this is because it is the most

electronegative of al the members of the group (C)

0 260 dm₁

8. No. of moles of the gas = 224 dm. mc

= 0.01116 mole

Relative molar mass molar mass

= mass 0.79g = 76.784

no. of mols 001116mole

71 (D)

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10. Pressure = 4.1 atom
Volume = 5.86dm<sub>3</sub>
Temperature = 20^{\circ} C+ 273 = 293K
= 0.082 dm_3 atm mo1 K_{-1}
= 1 \text{ mole (A)}
11. 2\text{Hsg} + 0_{2(g)} \rightarrow 2\text{H}_20_{(1)}
Reacting: 2 mole 1 mole 2 mole
Starting volume 50cm2 100cm3
Reacting volume 50cm 25cm 50cm
Volume after sparking - 75cm3 50cm3 Residual gases = unreacted oxygen+ H<sub>2</sub>O
= 75 + 50 = 125 cm<sup>3</sup>
The pyrogallol solution removes the oxygen components of the residual gas. The
volume
of the residual gas left = (125 - 75) = 50 \text{cm}3
(D)
12. D.
13. Heat evolved = mass x
specific heat capacity x temperature rise = 100g x 4.2Jg W1 x (312.3-298)K
=6006J
0.92
No of mole of ethanol = 46 \cdot 0.02 mole
Combustion of 0.2mole of ethanol
produces 6006J of heat energy
1 mole of ethanol produces: 6006J
0 02 mole
3003J mole1
= 300.3kJ mole
The reaction is exothermic (-300.3kJ mole) (C).
14. Molecular disorderliness in a substance is the measure of its entropy and
entropy
increases with increase in temperature. At 100^{\circ} C, water molecule becomes move
energetic and move more freely (C).
15. If \Delta G is positive (\Delta G > 0), the charge is non spontaneous and \Delta G = 0
means the
reaction is at equilibrium. A reaction is spontaneous, if \Delta G < 0. This can be
achieved at all
temperature, if OH <0 (exothermic) and the reaction occurs with increase
randomness
(\Delta S > 0)
\Delta G = \Delta H - TAS
-ve +ve
From the Gibb's equation, AG is always less than zero at all temperature if
\DeltaH <0 & \DeltaS
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>0 (D)

16. The rate of reaction increases with increase in temperature and surface area (B)

17. Rate of appearance of C = Rate of reaction Rate law is represented as [A] a mo1/dm3 & [BJ= b mo1/dm3

 $R = k(2a)_{P}(6)_{(q)} \cdots (i)$

If [A] is doubled & [B] is constant, rate is unaffected, i.e. [A]=2a&[B]=b, $R_2=R_1$

 $R_2 = K(2)_P(b)_{(q)}$ (ii)

If [Al is constant & [B] is doubled, Rate is four-fold i.e. [A]=a, [B] 2b, $R_3=4R_1$

Kr is the multiplicative inverse of Kr (B)

19. pH + pOH = 14

4.4 + pOH = 14

pOH = 9.6

pOH = -log[OH]

 $96 = -\log[OH]$

[OH] = ant log [-96]

 $= 2.5 12 \times 100 \text{ mo} 1/\text{dm}_3$ (B)

The original acid gives up its proton and becomes a conjugate base and those two are

oppositely charged (A)

20 HA + B = AB + Aacid

base conjugate conjugate

base base

21. Complex salts in which the positive and negative ions are complex or possess a

coordinate sphere. In a complex ion, there is a metal ion that is joined to electron pair

donors (ligands) via a coordinate bond.

KAI(SO₄).12H₂O (alum) is a double salt K₂S₂O₃.5H₂O is a normal salt

Mg (OH)Cl - is a base salt (B)

22. Normally, conductivity increase with increase in dilution or decreases in concentration

25. As a principle, the sacrificial cathode metal must be above the metal to be protected

in the electromotive series. The cathode metal goes into solution to form its ion (become

corroded) and evolves hydrogen. Here, the length of iron is its anode while Magnesium

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act as Cathode and goes into Solution to form ions while it is corroded.
Therefore, the
iron is protected from rusting.
26 No of Neutron =9
No of Proton = 8
No of electron = 7e
The superscript is the mass no = no of neutron +
proton = 9 + 8 = 17
The Subscript is the Atomic number = no of proton = 8
i.e one electron is lost with the introduction of positive sign (+) at
superscript of
the element. This can be represented as
27. MX_2 2M_+ + 2X
Initially: X o 0
At the end of the reaction: X x 2x
Solubility product. Ksp = [M+] [x-]_2
1. 08 x 10-7 mol_{3}dim-_{9}= (x) (2x) _{2}
1.08 x 10-7 mo13 dm-9 4x3
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1. Water is temporarily hard because it contains
a) CaSO<sub>4</sub> b) MgSO<sub>4</sub>
c) Chlorine d) Ca(HCO<sub>3</sub>)<sub>2</sub>
2. The oxidation number of nitrogen in Mg3N2 is
a) +2 b) -3 c) +3 d) -6
3. The possible number of isomers in C4H<sub>10</sub> is
a) 4 b) 3 c) 4 d) 10
4. If an element Z has an orbital configuration of
1S<sub>2</sub>2S<sub>2</sub>2P<sub>6</sub>3S<sub>2</sub>3P<sub>6</sub>4S<sub>2</sub>3&. What is the relative atomic number of Z?
a) 18 b) 19 c) 20. d) 21
5. The percentage of oxygen in sulphur IV oxide is
(S = 32, 0 = 16).
a) 5% b) 50% c) 500% d) 25%
6. 400cm3 of a gas x diffused through a porous pot in 2 minutes. Calculate the
rate at
which x diffuses.
a) 6.3cm3s-1 b) 20cm3s-1
c) 200cm<sub>3</sub>s<sub>-1</sub> d) 3.33cm<sub>3</sub>s<sub>-1</sub>
7. Calculate the number of moles of magnesium chloride produced by reacting
magnesium trioxocarbonate(IV) with excess hydrochloric acid. (Mg = 24, C = 12,
0 = 16,
H = 1, C1 = 35.5
```

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- a) 4mole b) 3mole
- c) 2mole d) 1mole
- 8. The reducing agent in the reaction below
- 9. The following statements are correct except
- a) Methane is tetragonal
- b) Ammonium is tetragonal
- c) Water is a linear molecule
- d) Ammonia is trigonal

answer key

- 1. D 4. D 7. C
- 2. B 5. B 8. A
- 3. B 6. D 9. C

Explanation to the Answers

I. Temporary hardness is caused by the presence of dissolved calcium hydrogen trioxocarbonate(IV) which decomposed by heating.

Since Imole of $MgCO_3$ produces mole $MgCl_2$ at stp 2mole of $MgCO_3$ will produce 2mole

 $MgCI_2$ (C)

8. Fe $_{3+}$ gain (accept) one electron to give Fe $_{2+}$ while 1 loses (donate) one electron to

produce12. Reducing agents are electron donor (A).

9. Water is angular or V-shaped not linear (C)

OBAFEMI AWOLOWO UNIVERSITY 2009 POST UME TEST CHEMISTRY

- 1. The flame used by welders in cutting metal is
- a) Butane gas flame
- b) Acetylene-hydroflame
- c) Kerosine flame
- d) Oxy-acetylene
- e) Oxygen flame
- 2. Consequeuiture members of an alkane homogenous series differ by
- a) CH b) CH₂
- c) CH₃ d) C₃H₃ e) CH₂₊₂
- 3. Which of these will dilute in HCI? Mg, Fe, Pb and Cu
- b) Mg, Fe and Cu d) Mg and Fe only
- a) All the metals
- c) Mg, Fe and Pb
- e)Mg only
- 4. Stainless steel is an alloy of
- a) carbon, iron and lead
- b) carbon, iron and chromium
- c) carbon, iron and copper
- d) carbon, iron and silver
- e) carbon and iron only
- 5. What volume of 0.50M H₂SO₄ will exactly neutralize 20cm₃ of 0. 1M NaOH solution?
- a) 2.0cm3 b) 5.0cm3 c) 6.8cm3
- d) 8.3cm3 e) 10.4cm3
- 6. A gas that can behave as a reducing agent towards chlorine and as an oxidizing agent

toward hydrogen suiphide is

- a) O₂ b) NO c) SO₂ d) NH₃ e) CO₂
- 7. An element that can exist in two or more different structure forms which possess the

same chemical properties is said to exhibit

- a) polymerism b) isotopy c) isomorphism d) isomerism e) allotropy
- 8. The hybridization of the carbon atom in ethyne is
- a) Spa b) SP2 c) SP E
- d) Sp3 e) ES
- 9. In the Haber process for the manufacturer of ammonia, finely divided iron is used as
- a) an ionizing agent b) a reducing agent
- c) a catalyst d) a dehydrating agent

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- e) an oxidizing agent
- 10. Nitrogen can best be obtained form a mixture of oxygen and nitrogen by passing the

mixture over

- b) reddish brown colour develops
- c) solution remains colourless
- d) blue colour is seen
- II. At STP how many litres of hydrogen can be obtained form the reaction of 500cm3 of
- 0.5M H2S04 excess zinc metal
- a) 22.4dm₃ b) 11.2dm₂ c) 65dm₂
- d) 5.6dm3 e) 0.00dm3
- 12. Tetraoxosulphate(VI) ions are final test using
- a) acidified silver nitrate
- b) acidified barium chloride
- c) lime-water
- d) dilute hydrochloric acid
- e) acidified hard nitrate
- 13. Which of the following is NOT the correct product formed when the parent metal is

heated in air?

- a) calcium oxide (CaO)
- b) sodium oxide (Na₂0)
- c) copper(II) oxide (CuO)
- d) aluminium oxide (Al₂O₃)
- 14. Which of the following roles does sodium chloride play in soap preparation? It
- a) reacts with glycerol
- b) purifies the soap
- c) accelerates the decomposition of the fat and oil
- d) separates the soap from the glycerol
- e) converts the fat acid to its sodium salt
- 15. The function of sulphur during the vulcanization of rubber is to
- a) act as catalyst for the polymerization of rubber molecules
- b) convert rubber from thermosetting to thermo plastic polymer
- c) form chains which bind rubber molecules together
- d) break down rubber polymer molecule
- e) shorter the chain length of rubber polymer
- 16. An element with atomic number twelve is likely to be
- a) electrovalent with a valency of 1
- b) electrovalent with a valency of 2
- c) covalent with a valency of 2
- d) covalent with a valency of 4

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I7Which of the following is an acid salt?

- a) NaHSO₄ b) Na₂SO₄ c) CH₃CO₃
- d) Na₂S₅) C₂H₅
- 18. Which of the following compounds is NOT formed by the action of chlorine on

methane?

- a) CH₃C₃ b) C₂H₅CI c) CH₂CI₂ d) CHCI₃ e) CH₄CI
- 19. Starch can be converted to ethyl alcohol by a) distillation b) fermentation c)

isomerization d) cracking e) osmosis

- 20. How many isomers can be formed form organic compounds with the formula C3H80
- a) 2 b) 3 c) 4 d) 5 e) 1
- 21. When platinum electrodes are used during the electrolysis of copper(II) tetraoxosulphate (VI) solution, the solution gets progressively
- a) acidic b) basic
- c) neutral d) atmospheric
- 22 Which of the following physical properties decreases across the periodic table
- a) Ionization potential. b) electron affinity c) electron negativity d) atomic radius
- e) electro-positive reaction 23. Which of these has the lowest pH value?
- a) Calcium trioxocarbonates
- b) Sodium trioxocarbonate (IV)
- c) Hydrochloric acid
- d) Ethanoic acid
- e) Hydrocarbon acid
- 24. Which of the following is used in fire

extinguishers

- a) carbon (II)
- b) carbon (VI) oxide
- c) sulphur (IV) oxide
- d) ammonia e) sulphur (III) oxide
- 25. Mortal is NOT used for under water construction because
- a) It hardens by loss of water
- b) Its hardening does not depend upon evaporation
- c) It requires concrete to harden
- d) It will be washed away by the flow of water
- e) It softens when exposed.

Answer Key

- 1. D 6. C 11. D 16. B 21. A
- 2. B 7. E 12. B 17. A 22. D
- 3. D 8. C 13. B 18. B 23. C

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4. B 9. C 14. D 19. B 24. 8

5. A 10. C 15. C 20. B 25. D

Explanations to the Answers

1. Oxy-acelylene flame is made form the mixture of oxygen and acetylene (ethyne) to

produce a gas that bum at very high temperature (D)

2. Consequiture member of an alkane homologous serves differ by CH2. For example,

CH4 and c2H6 differ by CH2 (B)

3. Mg, Fe will dissolve in dilute HCI to liberate hydrogen gas. Pb and Cu but not dissolve

or react will dilute HCI and H₂SO₄ (D).

4. Alloy of metal is primarily formed to improve the quality of the metallic compound to

desired properties. Stainless steel is formed in other to have hard, corrosion resistant and

very attractive in appearance. It is formed form the combination of carbon, chromium and

steel. Fe and C issued for ordinary steel (B)

5. $H_2SO+ 2NaOH \rightarrow Na_2SO_4 \div 2H_2O$

I mole 2 mole 1 mole 2 mole Concentration of acid

6. The sulphur(IV) oxide reduces the coloured solution of Cl2, Br2 and 12 to the colourless of their ionic compound. Cl2(5) + SO2 + 2H2O

- SO₂-

 $_{4(aq)}$ +2Cl + 4H+ $_{(aq)}$ and as an oxidizing agent in the presence of stronger reducing

agent $2H_2S + SO_2(g) \rightarrow 2H_2O + 3S(s)$

7. F

8. Ethyne is formed by the overlapping of S-orbital of hydrogen and P-orbital of the

carbon with 36 - bonds and 2π -bonds (sp hybridized) (C)

- 9. (C) check. Chemistry textbook for the preparation of ammonia.
- 10. Potassium hydroxide is used to remove droplet of water vapour. Magnesium cannot

be used because it will combine with nitrogen to form nitride.

 $Mg_3 + N_2 \rightarrow Mg_3N_2$

Heated phosphorous will react with only oxygen to form phosphorus (V) oxide, $P_4O_{10}(C)$

11. Zn(s), + $H_2SO(aq)$ \rightarrow $ZnSO_4$ + $H_2(g)$

Imole Imole 1 mole

no of mole of $H_2SO_4 =$

500dm3

x = 0.5 mole/dm

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100 = 0.25 mole Since I mole of H₂SO₄ produces I mole of H₂ 0.25 mole of H₂SO₄ will also produce 0.25 mole of H₂ volume of gas = 0.25mole x 22.4dm₃ mol₋₁ = 5.6dm₃ (D) 12. (B) Ba₂₊ + SO₄ 2- BaSO₄ - white precipitate. 13. $2Ca + O_2 \rightarrow 2CaO$ $2Na + O_2 \rightarrow Na_2O_2$ $2Cu + O_2 \rightarrow 2CuO$ $8Fe + 2O_2 \rightarrow Fe_3O_4$ $4A1 + 3O_2 \rightarrow 2A1_2O_3$

Sodium oxide can only be prepared in limited supply of oxygen, if not the product

formed is Na₂O₂.

14. Soap preparation involves the addition of fatty acid to concentrated NaOH -

solution. Sodium chloride is added to decrease the solubility of the soap (i.e. alkaline

salt), so that it separates out as a hard cake on the surface on cooling (D) 15. Vulcanization is the heating of rubber (styrenebutadiene polymer) with sulphur.

Hence, disulphide bonds cross-link parallel polymers- chains of the rubber at the double

bond positions of the repeat units thereby resulting into harden and high tensile strength

SBR (C).

16. An element with atomic number 12 has 2- electrons in its valency, thus makes it

belongs to s-block element (metals) in the periodic table. Metallic elements are known to

form electrovalent bond (B).

17. Acid-salt is formed by incomplete displacement of hydrogen ion from an acid by

metal, as we have in option A.

 $H2S04 + NaOH - NaHSO_4 + H_2O$ (A)

18. The product of chlorination of methane is formed by substitution reaction, C₂H₅CI is

formed by the chlorination of ethane not methane (B)

19. Fermentation is the slow decomposition by micro-organism of large organic molecules (such as starch) into smaller molecular (such as ethanol) (B).

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I and II are positional isomer while I, II, III are functional group isomer (B)

Cu₂₊/H₊ - migrate to the cathode while SO₄

2-- & OH- migrates towards the anode. At the

anode, OH- is lower in the electrochemical serves so it is discharged in preference to

S₀₄

2-

 $40H \rightarrow 2H_2O + O_2 + 4e$

Oxygen is produced at the anode. The discharge of OH disturbs the ionic equilibrium of $\ensuremath{\mathsf{E}}$

water; Therefore H is produced in excess. This brings increase in acidity at the anode.

At the cathode, Cu₂ is discharged in preference to H(+)Cu₂₊ + 2e \rightarrow CU(s) Copper is deposited and the ionic equilibrium is not altered. The electrolyte solution

becomes more acidic (A).

22. Atomic radius decrease across the periodic table, this is because it is noted that the

attraction by the nucleus increases more rapidly across the period than the forces of

mutual repulsion between electrons. As a result, the radius of the atom decreases with

increasing atomic number

(D).

23. HCI is a stronger acid, than ethanoic acid, the measure of acidic, pH value of HCI

will be lower than that of the ethanoic acid (C).

 $24.\ CO_2$ is used in fire extinguishers because it does not support combustion. It is

produced from calcium carbonate (B).

25. Mortal is prepared by mixing one part of slake lime and three parts of sand with

water. The mixture hardness or sets to bind the grains of sand by reacting with

carbon(IV) oxide in the atmosphere to form the trioxocarbonate. Mortal is used to bind

the brick in walls and buildings.

 $Ca (OH)_2 + CO_2 \rightarrow CaCO_3 + H_2O (D)$

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- 1. Whose experiment showed that the atom has a tiny positively charged nucleus?
- a) Thompson b) Rutherford
- c) Millikan d) Dalton
- 2. Which of the quantum number divides shells into orbitals?
- a) Principal b) subsidiary
- c) magnetic d) spin
- 3. Which of these statements is/are correct of a proton?
- i. The mass of a proton is one-twelfth the molar mass of carbon
- ii. The mass of a proton is 1840 times the mass of an electron
- iii. The mass of a proton is 1.0008g
- a) iionly b)i,iiandiii
- c)ionly d)iandii only
- 4. The following are chemical entities identifiable during qualitative analysis
- i) SO₄

2-

- ii) H₃O+ iii) NH+
- iv) OH. Which of them can be detected by litmus paper?
- a) ii and iv only b) ii only
- c) i & iii only d) I & ii only
- 5. i) $NaHCO_3$ ii) $NaHSO_4$ iii) NaCI. Which of these will dissolve in water to give alkaline
- solution?
- a) i, ii and iii b) ii only
- c) i only d) i & ii only
- 6. Burning of 0.46g of ethanol produced heat that raised the temperature of 100g of water
- by 30° C. Calculate the heat of combustion of ethanol. C2H5OH.
- (C = 12, H= 1; 0=16)
- a) 50kJmol-1 b) 900kJmol
- c) 1200kJrnol-1 d) 1000kJmol-1
- 7. When chlorine is bubbled into potassium iodine solution
- a) A white precipitate is seen
- 8. PCl₃ PCl₃(q) + Cl₂. In reaction above,
- an increase in pressure will
- a) Decelerate the reaction
- b) increase the yield of PCI3
- c) increase the yield of PCI5
- d) accelerate the reaction.

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- 9. A saturated solution of silver trioxocarbonate(IV), was found to have concentration of
- 1.30 x 10-5mol dm3. The solubility product of trioxocarboate (IV) is
- a) 8.79 x 10-10 b) 1.69 x 10-10
- c) 1.82 x 10-10 d) 9.84 x 10-10
- 10. A zinc half-cell is connected to an iron half- cell through a salt bridge and both are
- also connected through a copper wire. At which electrode is reduction taking place and
- which electrode is positively charged?
- a) Zinc, zinc b) iron, iron
- c) zinc, iron d) iron, zinc
- 11. Which of the following is the difference between an electrolytic cell ${\tt X}$ and
- electrochemical cell Y
- a) Anode in X is -ve while anode in Y is +ve
- b) In X, oxidation takes place at the anode while in Y reduction takes place at the anode
- c) In X, anode is positive while in Y anode is negative.
- d) In X, chemical energy is converted into electrical energy while in Y electrical energy
- is converted into chemical energy.
- 12. What mass of bromine will saturate completely 6.8g of 3-methybut-1-yne (H = 1; C=
- 12; Br = 80)
- 13. 100cm3 of oxygen and 10cm3 of butane measured at room temperature and pressure
- a) 16g
- c) 12g
- b) 32g d) 24g

were mixed and exploded. Determine the volume of the mixture when brought back to

- the original conditions of measurements.
- a) 125cm3 b) 1 10cm3
- c) 75cm3 d) None of these
- 14. Sulphur
- a) Forms two alkaline oxides
- b) is spontaneously inflammable
- c) burns with a blue flame
- d) conducts electricity in the molten state.
- 15. Candidate devised the following for the separation of the components of some

mixtures

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- i. Components of ink, principles involved is chromatography
- ii. Components of water and kerosene principle involved is separating funnel
- iii. Components of iodine and sodium chloride, principles involved is sublimation.

In which of the above is the principle correct?

- a) i only b) ii only
- c) iii only d) i, ii & iii
- 16. Which of the following procedures will separate a mixture of sand, sodium chloride

and iodine into its components?

- a) Add water, filter, sublime, evaporate to dryness
- b) Add water, sublime, filter, evaporate to dryness
- c) Sublime, filter, add water, evaporate to dryness
- d) Sublime; add water; filter; evaporate to dryness
- 17. The type of bonds in ammonium chloride are
- a) Covalent and electrovalent
- b) dative and covalent
- c) dative and electrovalent
- d) covalent, dative and electrovalent
- 18. Which of the following types of bonding does not produce a compound
- a) ionic bonding
- b) covalent bonding
- c) dative bonding
- d) metallic bonding
- 19. The combining powers of HCO₃ O; Na; Cl; respectively are
- a) -2 +1, -1. +1 b) 1.2.1,
- c) +1. -2, +1. 1 d) none of these
- 20. What is the chemical formula of the compound containing $6.02 \times 10_{23}$ atoms of

hydrogen, 35g of chlorine, and 4 moles of oxygen atoms?

- a) HCI₄0
- c) HC13O4
- 21. 200cm3 of hydrogen were collected over water at 30 and 740mm of Hg.

Calculate the

volume of the gas at s.t.p. if the vapour pressure of water at the temperature of the

experiment is 14mm of Hg.

- a) 168.25cm3 b) 176.40 cm3
- c) 185.46 cm³ d) 172.14 cm³
- 22. A given mass of gas occupies a certain volume at 300K. At what temperature will its

volume be double?

a) 400K b) 480K

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- c) 550K d) 600K
- 23. The basic assumption in the kinetic theory of gas that "forces of attraction and

repulsion between gaseous molecules are negligible" implies that:

- a) Molecules will continue their motion indefinitely
- b) Gases will occupy any available space
- c) Gases can be compressed
- d) None of the above
- 24. Which of the following is true of a sample of hydrogen gas whose mass is 4.00g

under a pressure of 2atm and a temperature of 27° C? (H = 1, R = 0.032 lit atm. Mol-1 deg-

- 1)
- a) Its volume is 24.6 litres
- b) it contains 6.02 x 1023 molecules
- c) it exists as atoms because of temperature d) none of the above
- 25. Which of the following combination of reagents will react to give chlorine gas?
- a) Sodium chloride, conc. H₂SO₄ and Manganese(IV) oxide
- h) Potassium tetraoxomagnate
- b) HCIO d) HCI₂O₄
- c) Potassium trioxochlonde(v) and conc.

H₂SO₄

d) Potassium tetraoxomagnate(VI) and

conc. H₂SO₄.

1B 6C 11C 16D 21D

2B 7B 12B 17D 22D

3B 8C 13A 18D 23D

4C 9A 14C 19B 24A

5C bC 15D 20C 25A

Explanations to the Questions.

1. Rutherford suggested an atomic model (the nuclear model) in which an atom has a

small-positively charged centre (nucleus). where nearly all the mass is concentrated,

surrounding the nucleus is a large space (extra-nuclear point) containing the electrons (B)

- 2. The subsiding or azimuthal quantum number, I has integral values ranging from 0 to (n
- 1). The electrons with subsidiary quantum numbers 0. 1, 2, and 3 are usually referred

to as the s, p, d and f - electrons respectively. Thus, this quantum number shows how

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many energy level that are in each electron shell (B)
3. (B) - check relevant chemistry for clarification.
4 will release NH3 gas (basic) while
S0_{2-}
4 will release SO<sub>2</sub> gas (acidic) (C)
5. NaHCO_3 + H_2O \rightarrow H_2CO_3 + NaOH
NaHSO_4 + H_2O \rightarrow Na_+ + SO_4
2- + H_3O_+
NaCl is neutral (C)
6. \Delta HI = mc \theta = 100g \times 4. Jg <sub>1</sub>k-1 x 303K
= 127,260J
127. 26 0J
No of mole = 0.01mole
0.0-1 , na
= 12,726,000 \text{Jmo} 1_{-1}
= 12,726kJmol-1 (exothermic)
7. C1_2 + 2K1 \rightarrow 2KCI + 1_2
The colouration is due to the formation of iodine (B)
8. PCI_{s(g)} - PCI_{s(g)} + Cl_{s(g)}
Since the products are in gaseous form, increase in pressure will lead to
decrease in
volume, this force the products to move closer and combine to form parent
compound,
thereby cause increase in the yield of PCI5 (C)
= (2.6 \times 05 \text{mo} 1/\text{dm}_3) \times (1.30 \times 10^{-5} \text{mo} 1/\text{dm}_3) = 8.788 \times 10^{-5} \text{mo} 13 \text{dm}_9 (A)
10. Iron (Fe) is below zinc in the electrochemical series, hence iron is a
electropositive element compared to zinc. This makes zinc to be a stronger
reducing
agent since reduction takes place at the cathode, zinc is used as cathode
while iron will be
anode (C)
11. In electrolyte cell, the cathode is the negative electrode while anode is
the positive
electrode. In electrochemical cell, the cathode is positive electrode while
the anode is
negative (C)
12. CH<sub>3</sub>CH (CH<sub>3</sub>) = CH+Br<sub>2</sub>\rightarrow CH<sub>3</sub>CH (CH<sub>3</sub>) C Br<sub>2</sub>, -CBr<sub>2</sub>
Imole 2mole Imole
68
No. of mole = 68 = 0.10mole
3 - methylbut-I-yne
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I mole of 3-methylbut-I-yne requires 2 moles of Br2
0.10 mole of 3-methylbut- 1 -yne produces 2 x 0.10 of Br2
= 0.20 \text{ mole of } Br_2
Mass of Br_2 = 0.2 \times 160
32grams (B)
13
13. C_4H_{10} + 2 O_2 \rightarrow 4CO_2 + 5H_2O
Reacting mole 1mole 4 mole 5 mole
Available vol. 10cm 100cm<sup>3</sup>
Reacting vol. 10 cm3 65cm3
40cm3 35cm3-
Residual gas = 35 + 40 + 50 = 125 cm<sup>3</sup> (A)
14. When sulphur is heated in a partial supply of air, it burns with bright
blue flame to
form sulphur(IV) oxide and small amount of SO3
S(s) + O_2(g) \longrightarrow SO_2(g)
15. (D)
16. Heat the mixture to sublime iodine which will go into gaseous form and
collected
separately. The left mixture is dissolve in water while the hall dissolve in
water and it is
filtered to separate sand from the mixture while the residual is heated to
dryness to
recover the NaCI
(D)
17. In NH4CI, there is ionic bond between NH+
4 &Cl-. There are three pure covalent
bonds and one coordinate covalent (dative) bond. The bond types in NH4CI are
ionic,
covalent and coordinate covalent (three types) (D)
Combing power of HCO-
_3 = 1
0=2
Alkaline metal, Na = 1
Halogen, Cl =1 (B)
20. 6.02 x 1023 atoms of hydrogen give 1mole of hydrogen 35g of chlorine give
1mole of
chlorine. 4moles of oxygen atoms give 4 oxygen atoms Combination give HCIO<sub>4</sub> (C)
21 P_1 = 740 - 14 = 726 mmHg
V_1 = 20 cm_3
T_1 = 30^{\circ} C + 273 = 303K
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 P_2 = S. t. p= 760mmHg T_2 = s. t. p= 273K V_2 = PVT