

# UNICAL Arts, Law - Post UTME Past Questions and Answers [FREE]

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PAST POST-UTME SCREENING QUESTIONS – UNICAL POST-UTME SCREENING COMMITTEE 2011/12



UNIVERSITY OF CALABAR, CALABAR  
PAST POST-UTME SCREENING QUESTIONS  
ARTS & LAW FACULTIES

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ENGLISH LANGUAGE

Choose the expression or word which BEST COMPLETES each sentence

1. I am intent \_\_\_\_\_ continuing my course  
A. on B. with C. as D. to E. at
2. \_\_\_\_\_ equations use letters to stand for numbers  
A. Simultaneous B. Simultaneous  
C. Simultaneous D. Simultaneous

From the options A to D, choose the expression that is OPPOSITE IN MEANING to the underlined word(s).

3. Elemi's sagacity contrasted sharply with his friend's \_\_\_\_\_  
A. Timidity B. Wisdom C. Fluency D. Foolishness
4. Some people keep ferocious animals as pets.  
A. Gentle B. Wild C. Fierce D. Domestic

From the options listed A – D select the word that best CAPTURES THE MEANING of the italicized part of the sentences

5. Every visitor to Calabar must visit *where photographs and artifacts of early European colonial presence in Nigeria are kept*  
A. Archives B. Ranch C. Market D. museum

From the options A to D, choose the expression that is NEAREST IN MEANING to the underlined word

6. Ebire's generosity turned out to be her Achilles' heel  
A. Strong point B. Favourite habit C. Weak point D. Less popular virtue

Choose the expression or word which BEST COMPLETES each sentence

7. The giant hydro-electric project is among the \_\_\_\_\_ of colonial rule in Southern Africa  
A. Inheritance B. Remnants C. Legacies D. Evidence
8. Ukpabio is proficient \_\_\_\_\_ tailoring  
A. With B. In C. Of D. At

Choose the word or phrase that is OPPOSITE IN MEANING to the underlined

9. The demonstration was organized by hoodlums  
A. Criminals B. Activists C. Thugs D. Soldiers
10. The plaintiff convinced the court that the murder was inadvertent  
A. Brutal B. Wicked C. Careless D. Premeditated
11. The bush burning festival will further renew our forest resource  
A. Increase B. Reduce C. Deplete D. Remove

Choose from the options lettered A – E the one that has the correct stress with the word given. In each word only the stressed part is in CAPITAL

12. Planetarium  
A. PLAN-e-tar-i-um B. plan-E-tar-i-um C. plan-e-TAR-i-um D. plan-e-tar-I-um

Choose from the options the word which has THE SAME SOUND as the underlined

13. COURTESY A. our B. Court C. Shirt D. Tour

From the options listed A – D select the word that best CAPTURES THE MEANING of the italicized part of the sentences.

14. Lecturers assisted Prof. Atahiru Jega when *Nigerians chose their political leaders*  
A. election B. nomination C. appointment D. selection
15. Mother always *pays attention to details*  
A. frivolous B. interesting C. rigid D. meticulous

Choose the option that BEST EXPLAINS the information conveyed in the sentences below

16. The rampage in England shows that youths react the same way under provocation  
A. youths in England are very good B. youths in England are miscreants  
C. youths act the same way when provoked D. youths provoke people in England

From the options choose the appropriate STRESS pattern. The stressed syllables are written in CAPITAL letters.

17. Intimacy  
A. INTimacy B. inTImacy C. intiMAcy D. INTImacy

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18. consideration

- A. CONsideration B. consideration C. consiDERation D. considerAtion

From the words lettered A – D choose the word that rhymes with the given word

19. purity

- A. plentiful B. security C. purify D. nonentity

From the words lettered A – D choose the word that rhymes with the given word

20. beautiful

- A. beautify B. beautification C. dutiful D. dignify

Choose from the options lettered A – E the one that has the correct stress with the word given. In each word only the stressed part is in CAPITAL

21. constitutional

- A.con-sti-tu-tion-AL B.con-sti-TU-tion-al C.CON-sti-tu-tion-al D.con-STI-tu-tion-al

22. abnormality

- A.AB-nor-ma-li-ty B.ab-nor-ma-li-TY C.ab-nor-ma-LI-ty D.ab-nor-MA-li-ty

From the options A to D, choose the expression that is NEAREST IN MEANING to the underlined word

23. The use of Latin expressions in English is now dated

- A. well-established B. historical C. old-fashioned D. popular

24. His uncle showed affected interest in his welfare.

- A. pretended B. loving C. genuine D. deep

From the options choose the expression that BEST COMPLETES each sentence

25. I am qualified for the job; ----?

- A. haven't I B. Isn't it C. aren't I D. ain't I

26. My sister along with her colleagues-----the museum today.

- A. are visiting B. have visited C. were visiting D. is visiting

Choose the word that has the SAME SOUND as the one represented by the underlined letter

27. mansion

- A.cheap B.leisure C.peace D.action

28. time

- A.print B.might C.flip D.illegal

From the options choose the expression that BEST COMPLETES each sentence.

29. Every student \_\_\_\_\_ before the principal entered the hall

- A. has arrived B. have arrived C. had arrived D. arrived

30. The workers presented \_\_\_\_\_ to the National Assembly

- A. five pages document B. five-paged document  
C. a five - paged document D. a five - page document

From the options A to D, choose the expression that is NEAREST IN MEANING to the underlined word(s).

31. A dogged student is likely to succeed

- A. Studious B. Clever C. Curious D. Determined

Choose the option that best explains the information conveyed in the sentence below

32. When I visited Okon I only gave him a congratulatory card

- A.the only person I visited was Okon and nobody else  
B. it was only Okon that I gave a congratulatory card  
C.Okon only wanted a congratulatory card  
D.All that I gave Okon when I visited him was a congratulatory card

From the options choose the expression that BEST COMPLETES each sentence

33. The police -----up a list of suspects in the recent bombings.

- A.Has drawnd B. Has drawn C. have drawnd D. Have drawn

Choose the word that has the same sound as the one represented by the underlined letter

34. book

- A.lamb B.flock C.slump D.club

35. key

- Akite B.quay C.kindred D.quarter

Choose the expression or word which best completes each sentence

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36. Since Atim hasn't come till now I am in doubt \_\_\_\_\_ what to do  
 A. to B. with C. about D. of
37. The method \_\_\_\_\_ does not give the expected results  
 A. you recommended B. you visited C. you told me D. you sent me

**From the options listed A – E select the word that best captures the meaning of the italicized part of the sentences**

38. Wolves are *meat eaters*  
 A. herbivores B. carnivores C. animals D. omnivores
39. Miss Suzuki has *published the life stories of three movies stars*  
 A. historian B. autobiographer C. writer D. biographer
40. Most of the birds my grandfather described are *no longer available* in our village forest  
 A. travelled B. migrated C. hibernated D. extinct

Select the word that best captures the meaning of the italicised part of the sentence.

41. The principles of American government are *the direct opposite* of communist doctrine  
 A. apex B. antithesis C. anathema D. ambivalence
42. Superstition has it that certain foods and drinks are *able to increase sexual desire or potency*  
 A. Apocryphal B. Amorous C. Amorphous D. Aphrodisiac
43. Collins had little understanding of the game, and most of his moves were *random, based on caprice rather than reasoning*  
 A. Assiduous B. Astute C. Arbitrary D. Acute
44. Eddy vowed to live a long and happy life, *shun* temptation and *avoid* extremes  
 A. Deny B. Devolve C. Eschew D. Emulate

Choose the expression or word which best completes each sentence.

45. By the end of this year \_\_\_\_\_ in this town for eleven years  
 A. I'm living B. I'd be living C. I have lived D. I'll have lived

Fill in the blank in the following sentences making use of the best of the five options.

46. He was reported \_\_\_\_\_ the policeman  
 A. to be assaulting B. to assault  
 C. assaulting D. to have assaulted
47. He devoted himself \_\_\_\_\_ homeless children  
 A. to helping B. to help C. with helping D. helping
48. My younger brother looked ill last night and evidently \_\_\_\_\_ this morning.  
 A. Worse B. Worst C. More ill D. leaner

After each of the following sentences, a list of possible interpretation of all or part of the sentence is given.

Choose the interpretation that you consider most appropriate for each sentence:

49. For us to succeed in this task all hands must be on deck. This means that everybody  
 A. should push with his hands B. will have to place his hands on the deck  
 C. must cooperate D. should take a test to qualify
50. Kate was at home with all the questions asked by the examiner. This means that Kate was:  
 A. Familiar with the questions B. Went home with the questions  
 C. Prepared to go home with the questions D. Conceited about the questions
51. Mike flies off the handle each time there is an argument. This means:  
 A. Mike holds the door handle when he argues B. Mike allows the handle to fly  
 C. Mike easily loses his temper D. Mike can cope with any argument

Complete the following sentences with the right option from the words supplied after each sentence.

52. When the fire broke out in the hostel, students in \_\_\_\_\_ rushed out in all directions.  
 A. Crisis B. Panic C. Haste D. Hurry
53. Astronomers keep a close watch of the night sky in order not to miss the \_\_\_\_\_ appearance of some stars  
 A. Parallel B. Periodic C. Regular D. Constant

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Choose the word or phrase from options A-D which has the nearest meaning to the underlined word or words in each sentence.

54. My mother has refused to come to live in Lagos because she prefers the tranquil life in the village to the hurly burly of the city.

- A. Sweet                      B. Prosperous                      C. Peaceful                      D. Decent

55. A lorry larger than an elephant was struck on the bridge

- A. As large as an elephant                      B. Carrying an elephant.  
C. That looked like an elephant                      D. Of enormous proportions.

Choose the option that best completes the sentence.

56. The dentist found that his patient's teeth \_\_\_\_\_

- A. Have long decayed                      B. Have long been decayed  
C. Have long being decayed                      D. Had long decayed

57. In order to carry out the necessary examination, the dead body was \_\_\_\_\_

- A. Extracted                      B. Exhumed                      C. Extradited                      D. Expelled

58. He went abroad with a view \_\_\_\_\_ a business partner

- A. To fund                      B. To funding                      C. To be funding                      D. To have funded

In question 59, which of the options express the same idea as the one in quote?

59. „To put something aside“ is to

- A. Put it one's side.                      B. Put it in a side pocket for future use.  
C. Keep something for some special purpose.                      D. Keep in safety.

Select the option that best explains the sentence:

60. The painting was beautifully faked

- A. The painting was a good deceptive replica                      B. The painting was well framed and displayed  
C. The painting was deceptively decorated                      D. The painting was carefully hung

From the alternatives provided select the one which best completes the sentence

61. If only I \_\_\_\_\_ insured? But I wasn't. But I have to pay a lot of money

- A. am                      B. have been                      C. had been                      D. was to be

62. Since the petition writer did not include his name, the vice chancellor refused to act on such \_\_\_\_\_ letter

- A. a spontaneous                      B. an anonymous                      C. a scandalous                      D. a cowardly

63. The first graduation ceremony of the university was attended by men from all \_\_\_\_\_ of life

- A. works                      B. areas                      C. walks                      D. walk

Choose the word or phrase from options A – D which has the nearest meaning to the underlined word or words in each sentence

64. He should be able to do it alone

- A. he would be able to do it alone                      B. he ought to be able to do it alone  
C. he has to be able to do it alone                      D. he will do it alone

65. The old man was said to have died intestate

- A. without an estate                      B. in his estate  
C. without a will                      D. in good state

From the alternatives provided select the one which best completes the sentence

66. If only I \_\_\_\_\_ insured? But I wasn't. But I have to pay a lot of money

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D. he will do it alone

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B. in his estate

C. without a will

D. in good state

In each of the following questions, the word in capital letter has the emphatic stress. Choose the option that best fits the expression in the sentence.

71. The man BOUGHT the newspaper

A. Is this the newspaper which the man bought?

B. Did the man read the newspaper?

C. Who bought the newspaper?

D. What did the man buy?

72. The chief RAN to the place

A. Where did the chief run to?

B. Did the chief walk to the place?

C. Did the princess run to the place

D. Who ran to the place?

From the options lettered A – D choose the word opposite in meaning to the underlined words in the following sentences

73. Ebere's \_\_\_\_\_ contrasts with his brother's indolence

A. indulgence

B. laziness

C. labour

D. diligence

74. The discussion ended on an amicable note even though there was grave \_\_\_\_\_ at the beginning

A. hostility

B. incompatibility

C. irresponsibility

D. camaraderie

Select the word that best captures the meaning of the italicized part of the sentence

75. Some politicians in the area were said to be engaged in *double dealing*

A. eschewing

B. effiteness

C. duplicity

D. dubiousness



### LITERATURE IN ENGLISH

1. A story not based on fact and reality is  
A. Myth                      B. Legend                      C. Pasquinade                      D. Love story
2. A character who defends a bad cause or who argues in a contrary position just to stimulate an argument is referred to as  
A. Legend                      B. Cynic                      C. Villain                      D. Critic
3. "When the criminal was arrested, he rattled like a rattle snake" is an example of  
A. Pun                      B. Simile                      C. Hyperbole                      D. Apostrophe
4. The first-person narrative style is used when the main character in a novel recounts  
A. The author's story                      B. Other character's story  
C. His own story                      D. His best friend's story
5. A performance whereby a story is expressed through singing and music is called  
A. Drama                      B. Opera                      C. Pantomime                      D. Ballet
6. A word or gesture which serves as a signal to an actor to do or say something is called  
A. Reminder                      B. Correction                      C. Over-act                      D. Cue
7. The word "octave" refers to the first eight lines of  
A. lyric                      B. sonnet                      C. ode                      D. dirge
8. "These naked sons of misery". This expression is an example of  
A. litotes                      B. paradox                      C. assonance                      D. metaphor
9. The expression "the knights arrived at night" is known as  
A. pun                      B. satire                      C. metaphor                      D. simile
10. A prologue is the  
A. introductory part of a literary work                      B. scheme of a literary work  
C. last part of a literary work                      D. tribute paid to a character
11. "Haman is an out-at-the elbow looking man" is referred to as  
A. metonymy                      B. idiomatic expression                      C. personification                      D. irony
12. Repetition, rhyme and rhythm are permanent features of  
A. drama                      B. poetry                      C. short story                      D. prose

### Read the poem and answer questions 1 – 5

*Bent-double, like old beggars under sacks,  
Knock-kneed, coughing like hags, we curse through sludge,  
Till on the haunting flares we turned our backs,  
And towards our distant rest began to trudge,  
Men marched asleep, many had lost their boots,  
But limped on, blood-shed. All went lame, all blind;  
Drunk with fatigue; even deaf to the hoots  
Of gas-shells dropping softly behind*

13. The extract conveys a mood of  
A. dejection                      B. desperation                      C. resentment                      D. resignation
14. The dominant figure of speech in the first stanza is  
A. hyperbole                      B. simile                      C. euphemism                      D. pun
15. The expression *Drunk with fatigue* illustrates  
A. Metaphor                      B. synecdoche                      C. litotes                      D. irony
16. The rhyme scheme of the first stanza is  
A. aabb                      B. abab                      C. abcd                      D. abba
17. *sludge* in the extract means  
A. water                      B. fire                      C. snow                      D. mud
18. "Singing songs of sorrow is symbolic of sincere sympathy" illustrates  
A. Assonance                      B. Refrain                      C. Alliteration                      D. Anecdote
19. The predominant use of the third person pronoun in a novel creates a  
A. sense of detachment on the part of the writer                      B. sense of detachment on the part of the reader  
C. psychological affinity with the characters                      D. balance of opinion among the characters



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20. A tragic hero, according to the Aristotelian precept must be a  
A. noble character with hubris  
B. lowly character who suddenly stumbles on some fortune  
C. king with deep affection for his subjects  
D. central character after whom the play is named
21. The writing convention in which the events in a narrative are scrambled as they come to the writers mind without any attempt to arrange them in orderly sequence is called  
A. shifting style  
B. narrator's mind style  
C. psycho-consciousness style  
D. stream of consciousness
22. A stanza of three lines linked by rhyme is generally called a  
A. couplet  
B. ballad  
C. tercet  
D. quatrain
23. "But at my back I always heard Time's winged chariot hurrying near" illustrates  
A. Metaphor  
B. Apostrophe  
C. Oxymoron  
D. Metonymy
24. The exclusive right given to authors to protect their works from unlawful production is  
A. copyright  
B. an authority  
C. an authors right  
D. a constitutional provision
25. When a story is told in a song and passed down by word of mouth, it is called  
A. a sonnet  
B. an epic  
C. a ballad  
D. a singer's story
26. An exaggeration or overstatement in literature is a  
A. hexameter  
B. hyperbole  
C. metaphor  
D. soliloquy
27. A burlesque is  
A. an exaggerated mockery of a literary work  
B. a sentimental comedy  
C. an account of a famous person's life  
D. a rhetorical device used for effect in poetry
28. When to the sessions of sweet silent thought, I summon up remembrance of things past..."  
Shakespeare, Sonnet XXX The lines contain the predominant use of  
A. a motif  
B. irony  
C. sarcasm  
D. alliteration
29. A line of poetry is measured by the  
A. number of words  
B. number of feet it contains  
C. Images  
D. rhythm
30. The recurrence of rhythmic pattern of stress in a poem is a  
A. Couplet  
B. Metre  
C. Consonance  
D. Scansion
31. "I don't fancy forbidden fruits of fashions and fads" illustrates  
A. Refrain  
B. Repetition  
C. Assonance  
D. Alliteration
32. "The strong gongs groaning as the guns boom far" illustrates  
A. Metonymy  
B. Refrain  
C. Onomatopoeia  
D. Repetition

Read the poem and answer questions 21-25

Sleep, O Sleep,  
With thy Rod of Incantation,  
Charm my Imagination,  
Then, only then. I cease to weep.

By thy power,  
The virgin, by Time O'ertaken  
For years forlorn, forsaken,  
Enjoys the happy hour.

What's to sleep?  
'Tis a visionary blessing;  
A dream that's past expressing;  
Our utmost wish possessing;  
So may I always keep.



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56. pick the odd item out of the under listed  
A. ode B. elegy C. sonnet D. simile
57. A struggle between opposing forces in a literary work is the  
A. plot B. conflict C. climax D. denouement
58. "Friendship is a sheltering tree" illustrates  
A. simile B. metaphor C. personification D. oxymoron
59. A foil in drama is known as a \_\_\_\_\_  
A. flat character B. protagonist C. round character D. antagonist
60. A necessary quality of every work in literature is that it  
A. shows creative use of language B. has to be publishable in order to gain wide acceptance  
C. reaches a moral lesson D. uses characters or actors

**HISTORY**

1. Which of the following concepts was associated with land ownership following the fall of the Roman Empire?  
A. Back to Land Movement B. Nazism C. Feudalism D. Socialism
2. As was practiced in the four communes of Senegal, the policy of assimilation implied that  
A. Africans were modeled after the French B. Africans should rule themselves  
C. Traditional rulers were to be assimilated D. Senegal should be granted independence
3. \_\_\_\_\_ was the birthplace of the organization of African unity  
A. Nigeria B. Ghana C. Ethiopia D. Egypt
4. The significance of the Women's Riot of 1929 was that it:  
A. Ruined the Warrant Chief System B. Terminated Indirect Rule  
C. Made colonial rule unprofitable D. Led to the independence of Eastern Nigeria
5. The first military counter-coup took place in Nigeria on \_\_\_\_\_  
A. January 15, 1966 B. July 29, 1966 C. July 29, 1975 D. December 31, 1983
6. The first colonial consul sent to administer the west coast of Africa by Britain was  
A. John Beecroft B. Water Egerton C. George Goldie D. Donald Cameron
7. The policy of paternalism was practised in the colonies controlled by which of the following countries?  
A. Portugal B. Germany C. France D. Britain
8. The second jihad of the 19th century took place in Masina under the leadership of \_\_\_\_\_  
A. Usman Dan Fodio B. Samori Toure C. Seku Almadu D. Al Hajj Umar
9. Which of the following was the first country to abolish the slave trade?  
A. Denmark B. Britain C. U.S.A D. Brazil
10. Which of the following movements was founded in 1933?  
A. Gold Coast Youth Movement B. Nigerian Youth Movement  
C. Progressive Youth Movement D. Aba Youth Movement
11. The first Governor-General of the colony and protectorate of Nigeria was  
A. Lord Chamberlain B. Sir Lord Frederick Lugard  
C. Lord Thomas Birch freeman D. Sir Hugh Clifford
12. This was the main reason for the establishment of the African Union  
A. Form an African High Command B. Economic dominance of the World by Africa  
C. Address current international developments affecting Africa D. Consolidate Africa's position in global politics
13. Nigeria became a democratic nation in  
A. June 12, 1999 B. July 12, 1999 C. May 29, 1999 D. June 29, 1999
14. Which statement is not true of the U.N.O  
A. Is a conglomeration of independent African states  
B. Is presided by the president who holds office for one year  
C. Maintains international peace and security D. All the members are equal
15. The first African Bishop of the Anglican church in Nigeria was  
A. Joseph Shanghan B. Samuel Agley C. Ajayi Crowther D. Mary Slessor

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16. One of the disadvantages of an unwritten constitution is that it  
A. Is handy but not readily available for all citizens  
B. Is usually hidden and not common  
C. Is outdated, obnoxious and difficult to understand  
D. Can lead to abuse and victimization
17. Which of the following statements is not a contribution of Queen Amina of Zaria  
A. Amina was a warrior  
B. She built strong walls called ganuwar Amina  
C. She encouraged trade  
D. She challenged the colonial masters
18. The following devoted their time for the abolition of slave trade except  
A. Granville Sharpe  
B. William de craft  
C. William Wilberforce  
D. Thomas Clarkson
19. A totalitarian government is a government  
A. that aspires to control every aspect of a citizen's life  
B. for the masses  
C. of a people by the people and for the people  
D. that aspires to control only the economic aspect of a citizens life
20. Hope Waddell Training Institution Calabar was founded in  
A. 1965  
B. 1948  
C. 1895  
D. 1890
21. Which statement is not true of the U.N.O  
A. Is a conglomeration of independent African states  
B. Is presided by the president who holds office for one year  
C. maintains international peace and security  
D. All the members are equal
22. The organization of African unity came into being in  
A. 1945  
B. 1946  
C. 1947  
D. 1948
23. The first country to become independent in West Africa  
A. Ghana  
B. Nigeria  
C. Ivory coast  
D. Togo
24. The mid-western Nigeria was created in Nigeria in  
A. 1961  
B. 1962  
C. 1963  
D. 1964
25. Under the 1979 Nigerian constitution, each state is allowed to elect  
A. Two senators  
B. Five senators  
C. As many senators as the state could finance  
D. From two to five senators, depending on the population of the state
26. The major problem that arose from the 1970 election centred around the  
A. Inability of many voters to find their names on the voters register  
B. Cancellation of election results in many constituencies because of alleged irregularities  
C. Inability of some dissatisfied candidates to seek redress in the court of law  
D. Controversy over the presidential election result
27. The objective of the 1841 Niger expedition included the following except  
A. The abolition of the slave trade  
B. Establishment of legitimate commerce  
C. Establishment of friendly relationship with Africans  
D. Acquire greater knowledge of the interior of Africa.
28. The system of indirect rule failed in the former Eastern Nigeria primarily because  
A. of the fragmented political structures  
B. the chiefs refused to co-operate with the colonial officials  
C. of high taxation  
D. of forced labour
29. The headquarters of OAU is in  
A. Togo  
B. Senegal  
C. Addis Ababa  
D. Nigeria
30. What is the meaning of this acronym OPEC  
A. Organization of Petroleum Exporting Countries  
B. Organization of Petroleum Exploring Countries  
C. Organization of Petroleum Exploration Committee  
D. Organization of Petroleum Empowerment Countries
31. In Oyo traditional political system, the Alafin of Oyo was elected or chosen by a group known as  
A. Tributary chiefs  
B. Bales  
C. Obas  
D. Oyomesi
32. Dis-enfranchisement refers to the  
A. qualification of voters in an election  
B. disqualification of fraudulent presidential aspirants  
C. denial of the right to vote in an election  
D. right to vote in all elections

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33. The delegation of Administrative Powers to the local units with the central supervision and control is called  
A. devolution                      B. decentralization                      C. deconcentration  
D. centralization                      E. concentration
34. Which of the following is not an accepted way of resolving international conflict  
A. Diplomacy                      B. Propaganda                      C. Non-military use of force  
D. Military Force (war)                      E. Nuclear War
35. A unified- local government system was adopted in Nigeria under the  
A. Tafawa Balewa administration                      B. Yakubu Gowon administration  
C. Shehu Shagari administration                      D. Murutala/Obasanjo administration  
E. Mohammadu Buhari administration
36. The emergency powers conferred on the Federal Government under the independence constitution was first exercised in the  
A. Western region                      B. Mid-Western region  
C. Eastern Region                      D. Northern region  
E. Federal Territory Lagos
37. The international organization formed after the Second World War to guarantee international peace and security is called  
A. The European Common Market                      B. The British Common Wealth of Nations  
C. The League of Nations                      D. The United Nations Organization
38. Nigeria changed to the right hand driving in  
A. 1970                      B. 1973                      C. 1975                      D. 1977
39. Mary Slessor was popular for her  
A. Involvement in the abolition of slave trade                      B. Intervention in the killing of twins  
C. Cordial relationship with the Efik people                      D. Soliciting for peace among the indigenes.
40. The Vice-chancellor of the University of Calabar is  
A. Professor Kelvin Ettah                      B. Professor Ivara Esu  
C. Professor Charles Effiong                      D. Professor Bassey Asuquo
41. Rev. Henry Townsend and John Christopher Taylor were associated with  
A. The church missionary society                      B. The Church of Scotland mission  
C. The Methodist church                      D. The Baptist mission
42. Nigeria is a member of all except one  
A. OAU                      B. UNO                      C. OPEC                      D. NATO
43. Immediately after the Nigerian civil war, Gowon's regimes embarked on  
A. rejuvenation, resettlement and reconstruction  
B. reconciliation, rehabilitation and reconstruction  
C. rebuilding, rejuvenation and rehabilitation  
D. rehabilitation, renaissance and repression
44. Mussolini's fascism and Hitler's Nazism are good examples of  
A. Anarchy                      B. Feudalism                      C. Totalitarianism                      D. Oligarchy
45. One major disadvantages of a two-party is that is  
A. does not allow citizens to participate in politics                      B. divides the country into factions  
C. creates two countries                      D. stifles public opinion
46. An Oba in the traditional Yoruba political system was  
A. the executive head of his people                      B. a ceremonial monarch only  
C. a war general only                      D. the spokesman of his people
47. The colonial Governor whose constitution introduced elective principle into Nigerian politics was  
A. Arthur Richards                      B. Frederick Lugard  
C. Hugh Clifford                      D. John Macpherson
48. After the annexation in 1861, Lagos became a  
A. true territory                      B. crown colony  
C. protectorate                      D. consular territory
49. Who founded the Unity Party of Nigeria in the Second Republic?  
A. Dr Nnamdi Azikiwe                      B. Chief Michael Ajasin  
C. Chief Obafemi Awolowo                      D. Alhaji Shehu Shagari



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50. Universal adult suffrage was first adopted throughout Nigeria under the constitution of  
**A. 1922                      B. 1946                      C. 1958                      D. 1979**
51. Nationalist movements started late in French West Africa because  
**A. France suppressed political associations and parties.**  
**B. Africans felt they were free**  
**C. Africans wanted to maintain trade relations with France**  
**D. France did not allow Africans to travel abroad**
52. The International court of Justice has its headquarters in  
**A. the Hague                      B. Paris                      C. London                      D. New York**
53. Which of the following is the lowest class of people in the hierarchy of a feudal system?  
**A. Nobles                      B. Serfs**  
**C. Lords                      D. Manor**
54. Northern and Southern protectorates of Nigeria were amalgamated by  
**A. General Gowon   B. George Goldie   C. Fredrick Lugard   D. Donal Cameron**
55. The first African President of the Republic of South Africa  
**A. Jacob Zuma                      B. Thabo Mbeki   C. Jacob Chilumbua                      D. Nelson Mandela**
56. The Nigerian Civil war ended in  
**A. 1970                      B. 1971                      C. 1973                      D. 1975**
57. The headquarters of OAU is in  
**A. Togo                      B. Senegal                      C. Addis Ababa                      D. Nigeria**
58. Nelson Mandela was inaugurated as the first black president of South Africa on  
**A. July 14, 1978   B. May 10, 1994   C. March 20, 1984   D. August 17, 1988**
59. The two states created on the 23<sup>rd</sup> September 1987 in Nigeria were:  
**A. Abia and Akwa Ibom   B. Anambra and Abia   C. Katsina and Abia   D. Katsina and Akwa Ibom**
60. Which of the following countries did not attend the Berlin conference where Africa was partitioned?  
**A. Britain   B. France   C. Portugal   D. Holland**

**CHRISTIAN RELIGIOUS KNOWLEDGE**

1. The main condition for justification according to Paul is  
**A. Human merit                      B. Ability to keep the law**  
**C. Faith in Christ redemptive work                      D. Possession of spiritual gifts**
2. God told Ezekiel at his commissioning that "...briers and thorns are with you and you sit upon scorpions...." This implies that  
**A. The land of exile should bring forth briers and thorns**  
**B. Ezekiel would sit comfortably on scorpion**  
**C. Briers, thorns and scorpions would torment him**  
**D. His situation would be uncomfortable as he prophesied to unwilling people**
3. How many baskets of broken meat were left after Jesus fed the people?  
**A. Five baskets                      B. Sixteen baskets                      C. Twelve baskets                      D. Seven baskets**
4. The prophet regularly addressed as "son of man" was  
**A. Jeremiah   B. Ezekiel                      C. Isaiah                      D. Amos**
5. Who was the first female judge in Israel?  
**A. Barak                      B. Jabin                      C. Jezreel                      D. Deborah**
6. The Israelites rejected the sons of Samuel from judging them because they  
**A. took meat with fat                      B. desecrated God's altar**  
**C. laid with women at the altar                      D. took bribes and perverted justice**
7. Who was released from prison to the Jews in place of Jesus Christ?  
**A. Judas                      B. Barabbas                      C. Basabbas                      D. Barnabas**
8. Who replaces Judas as one of the Apostles of Christ?  
**A. Barnabas   B. Barsabas   C. Matthew   D. Mathias   E. Silas**
9. The eating of the scroll by prophet Ezekiel was an indication that  
**A. the prophet liked eating scrolls**  
**B. he must digest what is inside the scroll before communicating it to others**  
**C. the content of the scroll should be hidden from the people**  
**D. every prophet should eat scrolls for physical nourishment**

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10. Who informed Nehemiah that the walls of Jerusalem has broken down and its gates were burnt with fire?  
**A. Samballat      B. Tobish      C. Geshem      D. Hanani**
11. How old was Abram when God asked him to depart from his country?  
**A. 65      B. 75      C. 85      D. 95**
12. David took Jerusalem from  
**A. the Jebusites      B. the Philistines  
C. the Ammonites      D. the Edomites**
13. What is the Hebrew name for the Ten Commandments?  
**A. Torah      B. Massah      C. Goshen      D. Menorah**
14. How many were Jesus' disciples?  
**A. 24      B. 12      C. 10      D. 72**
15. The leader of the Jews who rebuilt the walls of Jerusalem after the exile was  
**A. Ezra      B. Nehemiah      C. Ezekiel      D. Jeremiah**
16. In the parable of the prodigal son, Jesus intended to teach  
**A. Respect for parents      B. God's love for a repentant sinner  
C. his dislike for careless living      D. love of parents for their children**
17. Boanerges is another name for the sons of \_\_\_\_\_?  
**A. God      B. Light      C. Zebedee      D. Barnabas**
18. The parable of the lost sheep and the prodigal son shows  
**A. Jesus love for the church      B. God's love for His son Jesus  
C. God's love for humanity      D. Jesus' love for his followers**
19. Which of the following brethren introduced Paul to the disciples in Jerusalem after his conversion?  
**A. Peter      B. Barnabas      C. Barsabas      D. James**
20. The first covenant in the Bible was made between God and \_\_\_\_\_  
**A. Abraham      B. Noah      C. Isaac      D. Jacob**
21. The contest on Mount Camel was to demonstrate that  
**A. Baal was the God of Israel      B. Baal controls nature  
C. Yahweh was supreme to other gods      D. Israel had declared for Yahweh**
22. Which of the following is not the result of Christian baptism?  
**A. Being burned with Christ      B. Obeying one's passions  
C. Yielding members as instruments of righteousness      D. Being raised with Christ**
23. In the first letter of Peter, he enjoined Christians to uphold all the following principles except  
**A. subjection for the Lord's sake, to every human institution  
B. doing right in order to silence the ignorance of foolish men  
C. living as free men, et as servants of God  
D. use of freedom as a pretext for revolt**
24. Jesus' use of an ass during the Triumphal entry signifies that He was  
**A. humble Messiah      B. A conquering Messiah  
C. The King of Israel      D. The expected Messiah**
25. When Jesus was asked "Are you the King of the Jews" by Pilate, he replied.  
**A. Yes, I am the king of the Jews      B. I am the son of God  
C. You have said so      D. I didn't say so**
26. Eli's lack of parental responsibility led his sons into doing all the following except  
**A. taking their choice meat raw      B. behaving violently towards the worshippers  
C. treating the Lord's offering with respect      D. regarding themselves as superior to God**
27. Which of the following best describes David's attitude to Abner's death?  
**A. sincere shock and sorrow      B. gladness for the death of an enemy  
C. hypocritical shock and disbelief      D. disappointment for unrealized dreams**
28. Agape is another name for?  
**A. Divine love      B. God's love for the church  
C. God's love for Jesus Christ      D. God's love towards man.**
29. „Master, we toiled all night and took nothing! But at your word I will let down the nets". These words were spoken when Jesus  
**A. called the two Sons of Zebedee, at the Sea of Galilee  
B. met and called Levi to be a disciple**



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- C. met and called Peter and Andrew his brother  
D. ordered Peter to let down his net for a catch, just before he was called.
30. Jesus told the scribe who wanted to follow him that „Foxes have holes, and birds of the air have nest but the Son of man has no where to lay his head” because  
A. Jesus knew that the scribe was self-righteous and therefore unfit to be a disciple  
B. Jesus foresaw that the scribe thought that discipleship was a thing of pleasure.  
C. Jesus knew as a lawyer, the scribe would disprove his teachings  
D. the scribe asked Jesus first to allow him to bury his father.
31. What is the name of the Apostle who replaced Judas Iscariot?  
A. Barabas      B. Matthias      C. Stephen.      D. Ananias
32. Which of the following actions shows that King David was a man after God’s own heart? He  
A. laid in ambush against Saul in the wilderness of Ziph  
B. attacked Saul’s camp secretly when his spies gave him useful information  
C. ordered Abishai to slay Saul in his sleep  
D. rejected the suggestion to slay Saul
33. As part of the heritage of their calling, Peter enjoined Christians to do all the following except  
A. Bearing all their anxieties courageously on their shoulders.  
B. The young clothing themselves with humility.  
C. Humbling themselves under the mighty hand of God.  
D. Firmly resisting the devil, conscious of the fact that suffering is part of Christian life.
34. According to Matthew’s account, John the Baptist immediate reaction when Jesus came to be baptized was to  
A. baptize Jesus      B. ask why he should baptize a non-sinner  
C. ask that he should rather be baptized by Jesus      D. ask him to confess his sins.
35. How old was Abraham when he left his home in Haran?  
A. Seventy years      B. Sixty five years  
C. Seventy five years      D. Ninety nine years
36. The rich man who ignored the needs of Lazarus lacked  
A. a sense of proportion      B. parental care  
C. human sympathy      D. spiritual contentment
37. Who said this “the soul that sinneth shall die”  
A. Moses      B. Ezekiel      C. Isaiah      D. Jesus
38. The kingdom of Israel is made up of how many tribes?  
A. 24 tribes      B. 10 tribes      C. 12 tribes      D. 13 tribes
39. My son, your sins are forgiven. Jesus said this to?  
A. The paralytic      B. The centurion’s servant      C. The leper      D. Jarius’ son
40. What is the name of the Apostle who replaced Judas Iscariot?  
A. Barabas      B. Matthias      C. Stephen      D. Ananias
41. What is the other name for the sons of Zebedee?  
A. Sons of Light      B. Boanerges      C. Sons of God      D. Sons of Sceva
42. The name of the man whose ear Peter cut off is?  
A. Malchus      B. Pontius      C. Judas      D. Justus
43. The king noted for his greed in Israel is?  
A. Solomon      B. Ahab      C. Saul      D. Josiah
44. The healing miracles of Jesus show that?  
A. Jesus has power and authority over disease and illness  
B. Jesus is the son of God and Messiah      C. A and B above  
D. Jesus could do magic
45. How many Deacons did the Apostles select, to look after their Christian community in Jerusalem?  
A. 12 deacons      B. 7 deacons      C. 10 deacons      D. 2 deacons
46. Who led the Israelites into the land of Canaan?  
A. Joshua      B. Moses  
C. Moses and Aaron      D. Caleb
47. God’s creative ability was manifested by His  
A. approving that a thing be done  
B. commanding word prefaced by „there be”

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- C. ordering the Holy Spirit to act  
D. choosing the better of two alternative models.
48. One of the following people interpreted Nebuchadnezzar's dream  
A. Joseph  
B. Daniel  
C. Samuel  
D. Eli
49. Behold the fire and the wood, but where is the lamb for a burnt offering? Who said this and to whom?  
A. Abraham to Jacob  
B. Isaac to Abraham  
C. Jacob to Isaac  
D. Abraham to Isaac
50. Blessed are the meek for \_\_\_\_\_  
A. They shall be comforted  
B. They shall inherit the earth  
C. They shall obtain mercy  
D. Theirs is the Kingdom of Heaven
51. Ruben advised his brothers not to kill Joseph but to cast him into a pit because he  
A. Did not want them to shed the blood of the innocent  
B. Wanted to rescue him afterwards and bring him safely to their father  
C. Wanted to bury him alive in the pit.  
D. Loved his brother dearly
52. During the reign of Josiah, the Book of the Law was found in the temple by  
A. Shaphan  
B. Hilkiah  
C. Isaiah  
D. Zedekiah
53. Which of the following parables illustrates the Day of Judgement?  
A. The sower  
B. The wheat and the tares  
C. The mustard seed  
D. The leaven
54. The good shepherd as described by St. John has all the following qualities except that  
A. He enters the sheepfold by the door  
B. He climbs into the sheepfold by another way  
C. He leads the sheep out by the door  
D. The gatekeeper opens the gate for him
55. The two men nominated by the Apostles to vie for the place of Judas Iscariot were  
A. Joseph and Matthias  
B. Justus and Barnabas  
C. Paul and Silas  
D. Barnabas and Matthias
56. The delegation from Antioch to the council of Jerusalem consisted of  
A. Paul and Peter  
B. Peter and Barnabas  
C. Paul and Barnabas  
D. John and Peter
57. What did God use to destroy the first world?  
A. Water  
B. Flood  
C. Fire  
D. Fire and Brim Stones
58. Who is regarded as the prophet of hope in Israel?  
A. Ezekiel  
B. Isaiah  
C. Jeremiah  
D. Nahum
59. Thou art my beloved son; with thee I am well pleased. Who said this?  
A. God said to Jesus  
B. A voice from heaven  
C. God said to John the Baptist  
D. God said to Paul
60. Ahab's request for Naboth's vineyard exposed his  
A. fairness and justice  
B. consideration for others' rights  
C. cleverness and treachery  
D. envy and disregard for the law

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**GOVERNMENT**

1. Who propounded the theory of the rule of law?  
**A.** A.V. Dicey      **B.** Karl Max      **C.** Baron de Montesquieu      **D.** Abraham Lincoln
2. The constitution that introduced federalism to Nigeria was \_\_\_\_\_  
**A.** The McPherson Constitution      **B.** The Clifford Constitution  
**C.** The Lyttleton Constitution      **D.** The Richards Constitution
3. Which of the following is not a pressure group      **A.** P.D.P      **B.** A.S.U.U      **C.** N.A.S.U  
**D.** N.L.C
4. Which of these is an organ of The United Nations organization?  
**A.** The council of ministers      **B.** The senate of the U.N  
**C.** House of Lords      **D.** The general assembly
5. A body charged with the responsibility of employing, promoting dismissing and disciplining of civil servants is  
**A.** The Nigerian police      **B.** The Senate  
**C.** The Judiciary      **D.** The public service
6. The rule of law entails  
**A.** there is no man without law      **B.** the law is everywhere  
**C.** impartiality before the law      **D.** the law exist before man
7. A type of election in which an important political matter or a proposed law is referred to the electorate for final approval is  
**A.** Primary elections      **B.** Run-off election      **C.** General election      **D.** Referendum
8. Laws made by the Federal Government are called  
**A.** Executive laws      **B.** Central laws      **C.** Bye-laws      **D.** Concurrent laws
9. The name, Nigeria, was suggested by \_\_\_\_\_  
**A.** Sir Frederick Lugard      **B.** Nnamdi Azikiwe      **C.** Flora Shaw      **D.** Bishop Ajayi Crowther
10. In 1919, Lord Lugard was replaced with \_\_\_\_\_ as the Governor of Nigeria  
**A.** Sir Arthur Richards      **B.** Lord Milverton Thatcher      **C.** Sir John Macpherson  
**D.** Sir Hugh Clifford
11. The ability of a state to make laws which are free from internal aggression and external control is known as  
**A.** independence      **B.** power      **C.** authority      **D.** sovereignty
12. Organization of petroleum exporting countries (OPEC) was founded in  
**A.** 1955      **B.** 1960      **C.** 1979      **D.** 1977
13. The admistrator of the capital in pre-colonial Hausa/Fulani was  
**A.** Maagi      **B.** Galadima      **C.** Madawaki      **D.** Sarkin Yan Doka
14. Which is the highest office in the structure of organization of the civil service?  
**A.** The executive class      **B.** The professional or specialist class      **C.** The Administrative class  
**D.** The Technical class
15. The ombudsman originated in which of the following countries  
**A.** The U.S.A      **B.** Sweden      **C.** Britain      **D.** Greece
16. The theory of separation of powers was for the first time clearly formulated by  
**A.** Baron de Montesquieu      **B.** Albert Dicey      **C.** Lord Bryce      **D.** Jean Bodin
17. One major disadvantages of a two-party is that is  
**A.** does not allow citizens to participate in politics      **B.** divides the country into factions  
**C.** creates two countries      **D.** stifles public opinion
18. The Aba riots of 1929 was a direct consequence of the  
**A.** attempt to introduce taxation      **B.** introduction of Western education  
**C.** Yoruba political organization      **D.** pre-colonial Bini System
19. Fascism emphasizes  
**A.** equality      **B.** individualism  
**C.** nationalism      **D.** totalitarianism
20. When a high court declares an action of the executive ultra-vires, it means that  
**A.** the executive has to reconsider the action  
**B.** such an action should never be brought up again

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- C. only the legislature can deal with such an action  
D. the action is illegal and of no effect
21. The two parties which formed the coalition government in 1959 were the  
A. NPC and the NCNC  
B. NCNC and AG  
C. NPC and the NNA  
D. PRP and UPGA
22. Dis-enfranchisement refers to the  
A. qualification of voters in an election  
B. disqualification of fraudulent presidential aspirants  
C. denial of the right to vote in an election  
D. right to vote in all elections
23. The objective of the 1841 Niger expedition included the following except  
A. The abolition of the slave trade  
B. Establishment of legitimate commerce  
C. Establishment of friendly relationship with Africans  
D. Acquire greater knowledge of the interior of Africa.
24. The system of indirect rule failed in the former Eastern Nigeria primarily because  
A. of the fragmented political structures  
B. the chiefs refused to co-operate with the colonial officials  
C. of high taxation  
D. of forced labour
25. The headquarters of OAU is in  
A. Togo  
B. Senegal  
C. Addis Ababa  
D. Nigeria
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A. Western region  
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28. Nigeria changed to the right hand driving in  
A. 1970  
B. 1973  
C. 1975  
D. 1977
29. Mary Slessor was popular for her  
A. Involvement in the abolition of slave trade  
B. Intervention in the killing of twins  
C. Cordial relationship with the Efik people  
D. Soliciting for peace among the indigenes.
30. The following are key factors which influence Nigeria's foreign relations except  
A. peaceful co-existence  
B. economic dependence  
C. non-interference  
D. respect for territorial integrity
31. The second military coup d'état in Nigeria took place on  
A. July 29, 1966  
B. July 29, 1975  
C. February 13, 1976  
D. October 1, 1966
32. The mechanism used to limit a parliamentary debate is known as  
A. guillotine  
B. prerogative  
C. abrogation  
D. adjournment
33. Some pre-colonial West African governments were democratic because of the existence of  
A. powerful traditional rulers  
B. age grade  
C. religious institutions  
D. checks and balances
34. The head of the executive branch in a parliamentary system is called  
A. Senate President  
B. Prime Minister  
C. President  
D. Governor-General
35. Under what constitution did the Supreme Court become the highest Court of Appeal in Nigeria?  
A. Lyttleton Constitution  
B. Republican constitution  
C. McPherson constitution  
D. Independence constitution
36. The Economic Community of West African States (ECOWAS) is  
A. An economic association  
B. A political association  
C. Cultural association  
D. A social association
37. Government as an act of governing means  
A. Activities of pressure groups and political parties  
B. Act of vetoing a bill  
C. Orders of judiciary and legislature  
D. Activities by which government policies are made and implemented

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38. The major advantage of the secret ballot is that  
A. it is faster than other systems  
B. nobody can be prevented from voting  
C. it ensures the anonymity of each voter  
D. it extends franchise to all adults
39. The process of depriving persons of the right of voting is known as  
A. Disenfranchisement  
B. Disqualification  
C. Prohibition  
D. Dismissal
40. The question of civil war was raised for the first time at the meeting of the OAU in September 1967 in  
A. Kampala  
B. Addis Ababa  
C. Nairobi  
D. Kinshasa
41. Military governors were members of the supreme military council under  
A. Murtala Mohammed regime  
B. Yakubu Gowon  
C. Ibrahim Babangida regime  
D. Muammaru Buhari regime
42. Residual powers under the Nigerian independence constitution were the powers exercised by  
A. the Federal government  
B. the Regional government  
C. the Local government  
D. both the Federal and Regional governments
43. It is the duty of a government to perform all the following functions except  
A. Providing all the needs of its citizens  
B. Preventing internal disorder  
C. Providing basic welfare services  
D. Promoting industrial and commercial development
44. The following factors favoured the introduction of indirect rule in Nigeria except the  
A. shortage of manpower  
B. shortage of funds  
C. existence of education elites  
D. existence of a system of taxation
45. It is argued that most of the new states of Africa cannot remain faithful to the doctrines of non-alignment mainly because of  
A. corruption  
B. ethnic problems  
C. bad leadership  
D. poor economy
46. The delegation of Administrative Powers to the local units with the central supervision and control is called  
A. devolution  
B. decentralization  
C. deconcentration  
D. centralization  
E. concentration
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B. Yakubu Gowon administration  
C. Shehu Shagari administration  
D. Murtala/Obasanjo administration  
E. Muhammadu Buhari administration
49. One of the criticisms against delegated legislation is that it  
A. gives too much power to all organs of government  
B. enhances separation of powers  
C. encroaches on parliamentary power  
D. is not practised in advanced countries
50. Which of the following is not an objective in foreign policy?  
A. prestige  
B. large population  
C. territorial integrity  
D. survival
51. Voting started in Nigeria in 1923 because the Clifford constitution of 1922 granted  
A. decolonization  
B. parliamentary government  
C. an elective principle  
D. Self government
52. Which of the following is not a component of political culture  
A. Attitudes  
B. Beliefs  
C. Emotions  
D. Age
53. With which country did Nigeria break diplomatic relations in 1963 for exploding a nuclear device in the Sahara?  
A. The USA  
B. China  
C. Soviet Union  
D. France
54. Which of the following did not formally recognize "Biafra" as an independent state?  
A. Zambia  
B. Tanzania  
C. Gabon  
D. Ivory Coast
55. The Armed forces Ruling Council came into existence under the  
A. Buhari Administration  
B. Babangida Administration  
C. Gowon Administration  
D. Obasanjo Administration
56. Residual powers under the Nigerian independence constitution were the powers exercised by  
A. the Federal government  
B. the Regional government  
C. the Local government  
D. both the Federal and Regional governments



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57. It is the duty of a government to perform all the following functions except  
A. Providing all the needs of its citizens B. Preventing internal disorder  
C. Providing basic welfare services D. Promoting industrial and commercial development
58. The following factors favoured the introduction of indirect rule in Nigeria except the  
A. shortage of manpower B. shortage of funds  
C. existence of education elites D. existence of a system of taxation
59. It is argued that most of the new states of Africa cannot remain faithful to the doctrines of non-alignment mainly because of  
A. corruption B. ethnic problems C. bad leadership D. poor economy
60. Which of the following is not an objective in foreign policy?  
A. prestige B. large population C. territorial integrity D. survival

**COMPUTER**

1. The following are output devices except:  
A. Mouse B. Plotter C. Printer D. Speakers E. Monitor
2. What type of device is a computer monitor?  
A. Input B. Output C. Software D. Storage E. Processing
3. What type of device is a computer keyboard  
A. Input B. Output C. Software D. Storage E. Processing
4. What type of devices are computer speakers or headphones?  
A. Input B. Output C. Software D. Storage E. Processing
5. What type of device is a computer printer?  
A. Input B. Output C. Software D. Storage E. Processing
6. What type of device is a 3 1/2 inch floppy drive?  
A. Input B. Output C. Software D. Storage E. Processing
7. What type of device is a computer mouse?  
A. Input B. Output C. Software D. Storage E. Processing
8. What type of devices are CDs or DVDs?  
A. Input B. Output C. Software D. Storage E. Processing
9. What type of device is a digital camera?  
A. Input B. Output C. Software D. Storage E. Processing
10. A program that can copy itself and infect a computer without the permission or knowledge of the owner is called what?  
A. Floppy B. Virus C. Java D. Monitor E. Flash
11. Which of these is a correct format of IP address?  
A. 192.168.1.1 B. 192.168.111.1111 C. 192.168.900.1 D. 192.900.168.1  
E. 192.16.168.111
12. Which was the first web browser?  
A. WorldWideWeb B. Netscape Navigator C. Internet Explorer D. Safari  
E. Chrome
13. It is a small piece of text stored on a user's computer by a web browser for maintaining the state. What we are talking about?  
A. Application B. Session C. Cookie D. QueryString E. Applets
14. Which of these is a correct format of Email address?  
A. contact.website.info B. contactwebsite.info C. [contact@website.info](mailto:contact@website.info)  
D. contact@website@info E. Contact.website@info
15. What does HTTP stands for?  
A. Hypertext Transfer Protocol B. Hypertext Transfer Plotter C. Head Tail Transfer Plot  
D. Head Tail Transfer Protocol E. Hypertext Transmission Process
16. In computers, what is the smallest and basic unit of information storage?  
A. Bit B. Byte C. Newton D. Mega byte E. Kilo byte
17. What is Windows XP?  
A. Operating System B. Storage Device C. Processor D. Output Device E. Input Device

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18. Which of the following is responsible for the management and coordination of activities and the sharing of the resources of the computer?  
**A. Application Software B. Motherboard C. Operating System D. RAM E. System Software**
19. MP3 file format is associated with what type of files?  
**A. Video B. Audio C. Image D. Word Document E. Flash file**
20. MS-Word is an example of  
**A. Application Software B. System Software C. Operating System D. Scanner E. ALU**
21. Which software application is used for accessing sites or information on a network (as the World Wide Web)?  
**A. Operating System B. Web Browser C. Microsoft Word D. Microsoft Excel E. FileZilla**
22. What are the two broad categories of software?  
**A. MS Word and Spreadsheet B. Transaction and Application C. Microsoft and Mac OS D. System and Application E. Transaction and System**
23. One kilobyte contains how many bytes?  
**A. 1000 B. 1001 C. 100 D. 1024 E. 10**
24. Who Owns the Internet?  
**A. Internet Engineering Task Force B. ICANN C. Internet Architecture Board D. No one owns it E. InterNIC**
25. What is the shortcut key of printing a document for computer having windows?  
**A. Ctrl + P B. Shift + P C. Alt + P D. Shift + PP E. Fn + P**
26. In computers, '.TMP' extension refers usually to what kind of file?  
**A. Temporary file B. Image file C. Video file D. Text file E. Database file**
27. The way of manipulating data into information is called  
**A. Storing B. Processing C. Deletion D. Organizing E. Transmission**
28. What Does BIOS Stand For?  
**A. Better Integrated Operating System B. Basic Input Output System C. Battery Integrated Operating Setup D. Backup Input Output System E. Battery Input Operating System**
29. Memory management is a feature of  
**A. Processor B. Operating System C. MS Word D. Animation E. UPS**
30. Which of the following is not a storage device?  
**A. DVD B. Hard Disk C. Floppy Disk D. Mouse E. Flash Drive**



**ANSWERS**

**ENGLISH**

1. A
2. D
3. D
4. A
5. D
6. C
7. C
8. D
9. B
10. D
11. C
12. C
13. C
14. A
15. D
16. C
17. A
18. D
19. B
20. C
21. B
22. D
23. C
24. A
25. C
26. D
27. D
28. B
29. C
30. D
31. D
32. D
33. D
34. D
35. B
36. C
37. A
38. B
39. D
40. D
41. B
42. D
43. C
44. C
45. D
46. D
47. A
48. A
49. C
50. A
51. C
52. B
53. B

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54. C
55. D
56. D
57. B
58. B
59. C
60. A
61. C
62. B
63. C
64. A
65. D
66. C
67. B
68. C
69. A
70. D
71. B
72. B
73. D
74. B
75. C

LITERATURE IN ENGLISH

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

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32. C
33. A
34. C
35. B
36. A
37. C
38. B
39. C
40. A
41. B
42. A
43. C
44. B
45. A
46. D
47. C
48. D
49. A
50. B
51. A
52. B
53. A
54. B
55. A
56. D
57. C
58. A
59. D
60. A

**HISTORY**

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

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23. A
24. C
25. B
26. D
27. D
28. A
29. C
30. A
31. D
32. C
33. A
34. E
35. D
36. A
37. D
38. B
39. B
40. D
41. A
42. D
43. B
44. C
45. B
46. A
47. C
48. B
49. C
50. D
51. A
52. A
53. D
54. C
55. D
56. A
57. C
58. B
59. D
60. D

**CHRISTIAN RELIGIOUS KNOWLEDGE**

1. C
2. D
3. D
4. B
5. D
6. C
7. B
8. D
9. B
10. D
11. B
12. A
13. A
14. B

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15. B
16. B
17. C
18. C
19. B
20. B
21. C
22. B
23. D
24. A
25. C
26. C
27. A
28. A
29. D
30. B
31. B
32. D
33. A
34. C
35. C
36. C
37. B
38. C
39. A
40. B
41. B
42. A
43. B
44. C
45. B
46. A
47. B
48. B
49. B
50. B
51. B
52. B
53. B
54. B
55. D
56. C
57. B
58. C
59. B
60. D

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**GOVERNMENT**

1. A
2. C
3. A
4. D
5. D
6. C
7. D
8. C
9. C
10. C
11. D
12. D
13. B
14. C

15. B
16. A
17. B
18. A
19. D
20. D
21. A
22. C
23. D
24. A
25. C
26. A
27. D
28. B
29. B
30. B
31. A
32. A
33. D
34. B
35. B
36. A
37. D
38. C
39. A
40. D
41. B
42. B
43. A
44. C
45. D
46. A
47. E
48. D
49. C
50. B
51. C
52. D
53. D
54. A

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- 55. B
- 56. B
- 57. A
- 58. C
- 59. D
- 60. B

**COMPUTER**

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

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# UNICAL Sciences - Post UTME Past Questions and Answers [FREE]

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SCIENCE, MEDICINE & AGRICULTURE/FORESTRY & WILDLIFE  
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ENGLISH LANGUAGE

Choose the expression or word which BEST COMPLETES each sentence

1. I am intent \_\_\_\_\_ continuing my course  
A. on B. with C. as D. to E. at
2. \_\_\_\_\_ equations use letters to stand for numbers  
A. Simultaneous B. Simultaneous  
C. Simultaneous D. Simultaneous

From the options A to D, choose the expression that is OPPOSITE IN MEANING to the underlined word(s).

3. Elemi's sagacity contrasted sharply with his friend's \_\_\_\_\_  
A. Timidity B. Wisdom C. Fluency D. Foolishness
4. Some people keep ferocious animals as pets.  
A. Gentle B. Wild C. Fierce D. Domestic

From the options listed A – D select the word that best CAPTURES THE MEANING of the italicized part of the sentences

5. Every visitor to Calabar must visit *where photographs and artifacts of early European colonial presence in Nigeria are kept*  
A. Archives B. Ranch C. Market D. museum

From the options A to D, choose the expression that is NEAREST IN MEANING to the underlined word

6. Ebire's generosity turned out to be her Achilles' heel  
A. Strong point B. Favourite habit C. Weak point D. Less popular virtue

Choose the expression or word which BEST COMPLETES each sentence

7. The giant hydro-electric project is among the \_\_\_\_\_ of colonial rule in Southern Africa  
A. Inheritance B. Remnants C. Legacies D. Evidence
8. Ukpabio is proficient \_\_\_\_\_ tailoring  
A. With B. In C. Of D. At

Choose the word or phrase that is OPPOSITE IN MEANING to the underlined

9. The demonstration was organized by hoodlums  
A. Criminals B. Activists C. Thugs D. Soldiers
10. The plaintiff convinced the court that the murder was inadvertent  
A. Brutal B. Wicked C. Careless D. Premeditated
11. The bush burning festival will further renew our forest resource  
A. Increase B. Reduce C. Deplete D. Remove

Choose from the options lettered A – E the one that has the correct stress with the word given. In each word only the stressed part is in CAPITAL

12. Planetarium  
A. PLAN-e-tar-i-um B. plan-E-tar-i-um C. plan-e-TAR-i-um D. plan-e-tar-l-um

Choose from the options the word which has THE SAME SOUND as the underlined

13. COURTESY A. our B. Court C. Shirt D. Tour

From the options listed A – D select the word that best CAPTURES THE MEANING of the italicized part of the sentences.

14. Lecturers assisted Prof. Atahiru Jega when *Nigerians chose their political leaders*  
A. election B. nomination C. appointment D. selection
15. Mother always *pays attention to details*  
A. frivolous B. interesting C. rigid D. meticulous

Choose the option that BEST EXPLAINS the information conveyed in the sentences below

16. The rampage in England shows that youths react the same way under provocation  
A. youths in England are very good B. youths in England are miscreants  
C. youths act the same way when provoked D. youths provoke people in England

From the options choose the appropriate STRESS pattern. The stressed syllables are written in CAPITAL letters.

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17. Intimacy

- A. INtimacy B. inTImacy C. intiMACy D. INTImacy

18. consideration

- A. CONsideration B. consideration C. consiDERation D. considerAtion

From the words lettered A – D choose the word that rhymes with the given word

19. purity

- A. plentiful B. security C. purify D. nonentity

From the words lettered A – D choose the word that rhymes with the given word

20. beautiful

- A. beautify B. beautification C. dutiful D. dignify

Choose from the options lettered A – E the one that has the correct stress with the word given. In each word only the stressed part is in CAPITAL

21. constitutional

- A.con-sti-tu-tion-AL B.con-sti-TU-tion-al C.CON-sti-tu-tion-al D.con-STI-tu-tion-al

22. abnormality

- A.AB-nor-ma-li-ty B.ab-nor-ma-li-TY C.ab-nor-ma-LI-ty D.ab-nor-MA-li-ty

From the options A to D, choose the expression that is NEAREST IN MEANING to the underlined word

23. The use of Latin expressions in English is now dated

- A. well-established B. historical C. old- fashioned D. popular

24. His uncle showed affected interest in his welfare.

- A. pretended B. loving C. genuine D. deep

From the options choose the expression that BEST COMPLETES each sentence

25. I am qualified for the job; ----?

- A. haven't I B. Isn't it C. aren't I D. ain't I

26. My sister along with her colleagues-----the museum today.

- A. are visiting B. have visited C. were visiting D. is visiting

Choose the word that has the SAME SOUND as the one represented by the underlined letter

27. mansion

- A.cheap B.leisure C.peace D.action

28. time

- A.print B.might C.flip D.illegal

From the options choose the expression that BEST COMPLETES each sentence.

29. Every student \_\_\_\_\_ before the principal entered the hall

- A. has arrived B. have arrived C. had arrived D. arrived

30. The workers presented \_\_\_\_\_ to the National Assembly

- A. five pages document B. five-paged document  
C. a five - paged document D. a five - page document

From the options A to D, choose the expression that is NEAREST IN MEANING to the underlined word(s).

31. A dogged student is likely to succeed

- A. Studious B. Clever C. Curious D.Determined

Choose the option that best explains the information conveyed in the sentence below

32. When I visited Okon I only gave him a congratulatory card

- A.the only person I visited was Okon and nobody else  
B. it was only Okon that I gave a congratulatory card  
C.Okon only wanted a congratulatory card  
D.All that I gave Okon when I visited him was a congratulatory card

From the options choose the expression that BEST COMPLETES each sentence

33. The police -----up a list of suspects in the recent bombings.

- A.Has drawnd B. Has drawn C. have drawnd D. Have drawn

Choose the word that has the same sound as the one represented by the underlined letter

34. book

- A.lamb B.flock C.slump D.club

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35. key

A.kite

B.quay

C.kindred

D.quarter

Choose the expression or word which best completes each sentence

36. Since Atim hasn't come till now I am in doubt \_\_\_\_\_ what to do

A. to

B. with

C. about

D. of

37. The method \_\_\_\_\_ does not give the expected results

A. you recommended

B. you visited

C. you told me

D. you sent me

From the options listed A – E select the word that best captures the meaning of the italicized part of the sentences

38. Wolves are *meat eaters*

A. herbivores

B. carnivores

C. animals

D. omnivores

39. Miss Suzuki has *published the life stories of three movies stars*

A. historian

B. autobiographer

C. writer

D. biographer

40. Most of the birds my grandfather described are *no longer available* in our village forest

A. travelled

B. migrated

C. hibernated

D. extinct

Select the word that best captures the meaning of the italicised part of the sentence.

41. The principles of American government are *the direct opposite* of communist doctrine

A. apex

B. antithesis

C. anathema

D. ambivalence

42. Superstition has it that certain foods and drinks are *able to increase sexual desire or potency*

A. Apocryphal

B. Amorous

C. Amorphous

D. Aphrodisiac

43. Collins had little understanding of the game, and most of his moves were *random, based on caprice rather than reasoning*

A. Assiduous

B. Astute

C. Arbitrary

D. Acute

44. Eddy vowed to live a long and happy life, *shun* temptation and *avoid* extremes

A. Deny

B. Devolve

C. Eschew

D. Emulate

Choose the expression or word which best completes each sentence.

45. By the end of this year \_\_\_\_\_ in this town for eleven years

A. I'm living

B. I'd be living

C. I have lived

D. I'll have lived

Fill in the blank in the following sentences making use of the best of the five options.

46. He was reported \_\_\_\_\_ the policeman

A. to be assaulting

B. to assault

C. assaulting

D. to have assaulted

47. He devoted himself \_\_\_\_\_ homeless children

A. to helping

B. to help

C. with helping

D. helping

48. My younger brother looked ill last night and evidently \_\_\_\_\_ this morning

A. Worse

B. Worst

C. More ill

D. leaner

After each of the following sentences, a list of possible interpretation of all or part of the sentence is given.

Choose the interpretation that you consider most appropriate for each sentence:

49. For us to succeed in this task all hands must be on deck. This means that everybody

A. should push with his hands

B. will have to place his hands on the deck

C. must cooperate

D. should take a test to qualify

50. Kate was at home with all the questions asked by the examiner. This means that Kate was:

A. Familiar with the questions

B. Went home with the questions

C. Prepared to go home with the questions

D. Conceited about the questions

51. Mike flies off the handle each time there is an argument. This means:

A. Mike holds the door handle when he argues

B. Mike allows the handle to fly

C. Mike easily loses his temper

D. Mike can cope with any argument

Complete the following sentences with the right option from the words supplied after each sentence.

52. When the fire broke out in the hostel, students in \_\_\_\_\_ rushed out in all directions.

A. Crisis

B. Panic

C. Haste

D. Hurry

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53. Astronomers keep a close watch of the night sky in order not to miss the \_\_\_\_\_ appearance of some stars  
A. Parallel                      B. Periodic                      C. Regular                      D. Constant

Choose the word or phrase from options A-D which has the nearest meaning to the underlined word or words in each sentence.

54. My mother has refused to come to live in Lagos because she prefers the tranquil life in the village to the hurly burly of the city.  
A. Sweet                      B. Prosperous                      C. Peaceful                      D. Decent
55. A lorry larger than an elephant was struck on the bridge  
A. As large as an elephant                      B. Carrying an elephant.  
C. That looked like an elephant                      D. Of enormous proportions.

Choose the option that best completes the sentence.

56. The dentist found that his patient's teeth \_\_\_\_  
A. Have long decayed                      B. Have long been decayed  
C. Have long being decayed                      D. Had long decayed
57. In order to carry out the necessary examination, the dead body was \_\_\_\_  
A. Extracted                      B. Exhumed                      C. Extradited                      D. Expelled
58. He went abroad with a view \_\_\_\_ a business partner  
A. To fund                      B. To funding                      C. To be funding                      D. To have funded

In question 59, which of the options express the same idea as the one in quote?

59. 'To put something aside' is to  
A. Put it one's side.                      B. Put it in a side pocket for future use.  
C. Keep something for some special purpose.                      D. Keep in safety.

Select the option that best explains the sentence:

60. The painting was beautifully faked  
A. The painting was a good deceptive replica                      B. The painting was well framed and displayed  
C. The painting was deceptively decorated                      D. The painting was carefully hung

From the alternatives provided select the one which best completes the sentence

61. If only I \_\_\_\_\_ insured? But I wasn't. But I have to pay a lot of money  
A. am                      B. have been                      C. had been                      D. was to be
62. Since the petition writer did not include his name, the vice chancellor refused to act on such \_\_\_\_\_ letter  
A. a spontaneous                      B. an anonymous                      C. a scandalous                      D. a cowardly
63. The first graduation ceremony of the university was attended by men from all \_\_\_\_\_ of life  
A. works                      B. areas                      C. walks                      D. walk

Choose the word or phrase from options A – D which has the nearest meaning to the underlined word or words in each sentence

64. He should be able to do it alone  
A. he would be able to do it alone                      B. he ought to be able to do it alone  
C. he has to be able to do it alone                      D. he will do it alone
65. The old man was said to have died intestate  
A. without an estate                      B. in his estate  
C. without a will                      D. in good state

From the alternatives provided select the one which best completes the sentence

66. If only I \_\_\_\_\_ insured? But I wasn't. But I have to pay a lot of money  
A. am                      B. have been                      C. had been                      D. was to be

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67. Since the petition writer did not include his name, the vice chancellor refused to act on such \_\_\_\_\_ letter  
A. a spontaneous    B. an anonymous    C. a scandalous    D. a cowardly
68. The first graduation ceremony of the university was attended by men from all \_\_\_\_\_ of life  
A. works    B. areas    C. walks    D. walk

Choose the word or phrase from options A – D which has the nearest meaning to the underlined word or words in each sentence

69. He should be able to do it alone  
A. he would be able to do it alone    B. he ought to be able to do it alone  
C. he has to be able to do it alone    D. he will do it alone
70. The old man was said to have died intestate  
A. without an estate    B. in his estate    C. without a will    D. in good state

In each of the following questions, the word in capital letter has the emphatic stress. Choose the option that best fits the expression in the sentence.

71. The man **BOUGHT** the newspaper  
A. Is this the newspaper which the man bought?    B. Did the man read the newspaper?  
C. Who bought the newspaper?    D. What did the man buy?
72. The chief **RAN** to the place  
A. Where did the chief run to?    B. Did the chief walk to the place?  
C. Did the princess run to the place?    D. Who ran to the place?

From the options lettered A – D choose the word opposite in meaning to the underlined words in the following sentences

73. Ebere's \_\_\_\_\_ contrasts with his brother's indolence  
A. indulgence    B. laziness    C. labour    D. diligence
74. The discussion ended on an amicable note even though there was grave \_\_\_\_\_ at the beginning  
A. hostility    B. incompatibility    C. irresponsibility    D. camaraderie

Select the word that best captures the meaning of the italicized part of the sentence

75. Some politicians in the area were said to be engaged in *double dealing*  
A. eschewing    B. effeteness    C. duplicity    D. dubiousness



**MATHEMATICS**

- Find the average of the first four prime numbers greater than 10  
A. 20 B. 19 C. 17 D. 15
- Given that  $P \propto \frac{1}{\sqrt{r}}$  and  $p = 3$  when  $r = 16$ , find the value of  $r$  when  $p = \frac{3}{2}$   
A. 48 B. 64 C. 72 D. 324
- $4 \times 10^{-5} =$   
A. - 40,000 B. - 200 C. 0.0004 D. 0.00004
- Which of the following equations corresponds the data in the table?

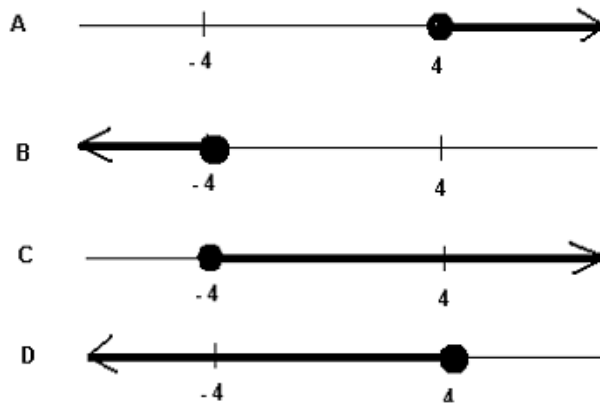
x	y
-20	-1/8
-10	-1/3
0	1/2
5	2/9
20	1/12

- A.  $y = 1 / (x + 2)$  B.  $y = 2 / (x + 4)$

C.  $y = (x - 1) / (x + 2)$  D.  $y = 2 / (x - 2)$
- The quadratic equation whose roots are at  $x = 3$  and  $x = 5$  is given by  
A.  $(x - 3)(x - 5) = 1$  B.  $(x + 3)(x + 5) - 9 = (x + 3)(x + 5) - 25$   
C.  $(x + 3)(x + 5) = 0$  D.  $x^2 - 8x = -15$
- There are 15 balls in a box: 8 balls are green, 4 are blue and 3 are white. Then 1 green and 1 blue balls are taken from the box and put away. What is the probability that a blue ball is selected at random from the box?  
A. 3/13 B. 4/15 C. 3/15 D. 4/13
- If  $-3/(a - 3) = 3/(a + 2)$ , then  $a = ?$   
A. -3 B. -2 C. 1/2 D. 2
- What is the average of  $7/8$  and  $3/4$ ?  
A. 13/8 B. 5/6 C. 5/3 D. 13/16
- If the hypotenuse of a right triangle is 10 inches long and one of its legs is 5 inches long, how long is the other leg?  
A. 5 B.  $5\sqrt{3}$  C.  $5\sqrt{5}$  D. 75
- If  $8y = 3x - 11$ , then  $x =$   
A.  $(88/3)y$  B.  $(8/3)y + 11$  C.  $(8/3)y - 11$  D.  $(8y + 11)/3$
- Which of the statements describes the solution set for  $-2(x + 8) = -2x + 20$ ?  
A.  $x = -2$  only B.  $x = 0$  only C.  $x = 20$  only D. There are no solutions for this equation.
- When graphed in the  $(x,y)$  coordinate plane, at what point do the lines  $2x + 3y = 5$  and  $x = -2$  intersect?  
A.  $(-2,0)$  B.  $(-2,5)$  C.  $(0,5/3)$  D.  $(-2,3)$
- Which of the following is equal to  $\sqrt{45}$ ?  
A. 15 B.  $5\sqrt{3}$  C.  $9\sqrt{5}$  D.  $3\sqrt{5}$
- If  $a = 3$ , then  $2 / (1/7 + 1/a) = ?$   
A. 5 B. 21/10 C. 20 D. 21/5
- If the expression  $x^3 + 2hx - 2$  is equal to 6 when  $x = -2$ , what is the value of  $h$ ?  
A. 0 B. -2 C. -4 D. 4
- Which of the graphs below is the solution set of  $-3x \leq 12$

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17. If the domain of function  $f$  given by  $f(x) = -x^2 + 6x$  is given by the interval  $[0, 6]$ , then the range of  $f$  is given by the interval  
**A.**  $[0, 9]$  **B.**  $[0, 6]$  **C.**  $[0, 3]$  **D.**  $[3, 6]$
18. The  $x$  intercepts of the graph of  $y = -x^2 + 3x + 18$  are given by  
**A.**  $(6, -3)$  **B.**  $(-3, 6)$  **C.**  $(-3, 0)$  and  $(6, 0)$  **D.**  $(3, 0)$  and  $(-6, 0)$
19. The sum of the first  $n$  terms of a linear sequence  $S_n = n^2 + 2n$ . Determine the general term of the sequence  
**A.**  $n+1$  **B.**  $2n+1$  **C.**  $3n+1$   
**D.**  $4n+1$
20. The length of a rectangle is 3 times its width. If the width of the rectangle is 5 inches, what is the rectangle's area, in square inches?  
**A.** 15 **B.** 20 **C.** 30 **D.** 75
21. What is the slope of the line  $4x = -3y + 8$   
**A.** 4 **B.**  $-3/4$  **C.**  $-4/3$  **D.** 8
22. The length of a rectangle is 3 times its width. If the width of the rectangle is 5 inches, what is the rectangle's area, in square inches?  
**A.** 15 **B.** 20 **C.** 30 **D.** 75
23. If  $1.56^x = 2$ , then  $x =$   
**A.**  $\ln 1.56 / \ln 2$  **B.**  $\ln 2 / \ln 1.56$  **C.**  $2 / \ln 1.56$  **D.**  $\ln 2 / 1.56$
24. A machine valued at ₦20,000 depreciates by 10% every year. What will be the value of the machine at the end of two years?  
**A.** ₦16,200 **B.** ₦14,000 **C.** ₦12,000 **D.** ₦16,000
25.  $x^3 - 2x^2 + 4x - 8 = 0$  if  $x =$   
**A.** 4 **B.** 8 **C.** 2 **D.** -8 **E.** -4
26. The sum of integers from 4 to 8 plus the sum from 12 to 16 is  
**A.** 80 **B.** 120 **C.** 100 **D.** 110 **E.** 90
27. If the diagonals of a quadruplet are equal then the quadruplet is a  
**A.** square **B.** parallelogram **C.** rhomboid  
**D.** trapezoid **E.** rectangle
28. The sum of four powers of  $q$  starting from power 0 is 85. Then  $q =$   
**A.** 2 **B.** 3 **C.** 4 **D.** 5 **E.** 6
- | Amount (in Naira)  | 3 | 6 | 9 | 12 | 15 | 18 |
|--------------------|---|---|---|----|----|----|
| Number of Students | 3 | 9 | 6 | 15 | 3  | 12 |
29. What is the mode  
**A.** ₦3 **B.** ₦6 **C.** ₦9 **D.** ₦12 **E.** ₦15
30. Find the median of the distribution  
**A.** ₦3.00 **B.** ₦9.00 **C.** ₦12.00 **D.** ₦15.00 **E.** ₦18.00

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31. Factorize:  $3a^2 - 11a + 6$   
 A.  $(3a-2)(a-3)$  B.  $(2a-2)(a-3)$  C.  $(3a-2)(a+3)$  D.  $(3a+2)(a-3)$   
 E.  $(2a-3)(a+2)$
32. The number of telephone call  $N$  between two cities  $A$  and  $B$  varies directly as the population  $P_A$ ,  $P_B$  in  $A$  and  $B$  respectively and inversely as the square of the distance  $D$  between  $A$  and  $B$ . which of the following equations represents this relation?  
 A.  $N = \frac{kp_A}{D^2} + \frac{CP_B}{D^2}$  B.  $N = \frac{kp_A P_B}{D^2}$  C.  $N = kDP_A P_B$   
 D.  $N = kDP_A + CDP_B$  E.  $N = kD^2 P_A P_B$
33. In a soccer competition in one season, a club had scored the following goals: 2, 0, 3, 3, 2, 1, 4, 0, 0, 5, 1, 0, 2, 2, 1, 3, 1, 4, 1 and 1. The mean, median and mode are respectively  
 A. 1, 1.8 and 1.5 B. 1.8, 1.5 and 1 C. 1.8, 1 and 1.5  
 D. 1.5, 1 and 1.8
34. Add the same number to the numerator and denominator of  $\frac{3}{18}$ . If the resulting fraction is  $\frac{1}{2}$  then the number added is  
 A. 13 B. 14 C. 15 D. 12
35.  $x^5 - 3x^4 + 4x - 12 = 0$  if  $x =$   
 A. 4 B. 3 C. 2 D. -8
36. Simplify  $\frac{a-b}{a+b} - \frac{a+b}{a-b}$   
 A.  $\frac{-4ab}{a^2 - b^2}$  B.  $\frac{a^2}{a^2 - b^2}$  C.  $\frac{b^2}{(a-b)^2}$  D.  $\frac{4ab}{a^2 - b^2}$
37. If opposite sides of a quadruple are equal then it is a  
 A. square B. trapezoid C. parallelogram D. rhomboid E. no such quadruple
38. The sum of even numbers from 12 to 18 is  
 A. 80 B. 40 C. 70 D. 60 E. 90
39. The sum of powers of 3 starting from power 2 is 117. Then the number of added powers is  
 A. 4 B. 2 C. 3 D. 5 E. 1
40. What is the relationship between  $2ab$  and  $a+b$  where  $a, b$  are numbers?  
 A.  $2ab \leq a+b$  B.  $2ab \geq a+b$  C.  $2ab \neq a+b$   
 D.  $2ab = a+b$  E.  $2ab > a+b$
41. There are four visitors in a party. There are two tables with two seats each. In how many different ways can these guests sit down?  
 A. 16 B. 24 C. 20 D. 12 E. 18
42. What is the modal goal scored  
 A. 0 B. 1 C. 2 D. 5
43.  $\left(\frac{x^3}{2} - \frac{8}{x}\right) \frac{2x}{x^2 - 4} =$  A.  $\frac{1}{x^2 + 4}$  B. 1 C.  $\frac{x^2 - 4}{x^2 + 4}$  D.  $x^2 + 4$
44. The value of  $\frac{3}{2} \times \frac{10}{21} \times \frac{4}{22} \times \frac{77}{5} =$  A. 5 B.  $1/5$  C. 2 D. 7
45.  $\tan x + \cot x =$  A.  $\sin 2x$  B.  $2/\sin 2x$  C.  $1/\cos 2x$  D.  $\cos 2x$
46.  $\frac{27x^3 - 8}{3x - 2} =$  A.  $9x^2 - 6x + 4$  B.  $9x^2 + 3x + 4$  C.  $9x^2 - 2x + 4$  D.  $9x^2 + 6x + 4$
47.  $\left(\sqrt[6]{(3)^{12}}\right)^{\frac{1}{2}} =$  A. 9 B.  $3^{1/2}$  C. 3 D. 27
48. Express 0.00562 in standard form  
 A.  $5.62 \times 10^{-3}$  B.  $5.62 \times 10^{-2}$  C.  $5.62 \times 10^2$  D.  $5.62 \times 10^3$

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49. If  $3^{2x} = 27$

- A. 1 B. 1.5 C. 4.5 D. 18

50. The population of a village is 5846. Express this number to three significant figures

- A. 5850 B. 5846 C. 584 D. 585

51. Simplify  $\left(\frac{3}{4} - \frac{1}{3}\right) \times 4\frac{1}{2} \div 3\frac{1}{4}$

- A.  $\frac{3}{2}$  B.  $\frac{13}{12}$  C.  $\frac{13}{9}$  D.  $\frac{17}{12}$

52. Write as a single fraction  $\frac{5}{6r} - \frac{3}{4r}$

- A.  $\frac{r}{12}$  B.  $\frac{1}{12r}$  C.  $\frac{r}{6}$  D.  $\frac{1}{6r}$

53. Simplify  $\log_{10}^4 + \log_{10}^{25}$

- A. 3 B. 1 C. 2 D. 4

No. of goals	0	1	2	3	4	5
No. of matches	3	5	7	4	1	0

54. What is the mean goal scored?

- A. 0.75 B. 1.75 C. 1.9 D. 2

55.  $\frac{\left(\frac{1}{4} - \frac{1}{5}\right)}{\left(\frac{1}{3} - \frac{1}{4}\right)} \times \frac{\left(\frac{1}{2} - \frac{1}{3}\right)}{\left(1 - \frac{1}{5}\right)} \times 8 =$

- A. 2 B.  $\frac{1}{6}$  C. 1 D. 4 E. 3

56. ₦1, 000,000.00 is put for 4% yearly interest for three years with the interest added at the end of each year to the base. At the end of the three years the money will be

- A. ₦1, 122,416.00 B. ₦1, 124,864.00  
C. ₦1, 241,232.00 D. ₦1, 422,232.00 E. ₦1, 441,122.00

57. Joe gets ₦40.00 to buy erasers for ₦5.00 each, pencils for ₦7.00 each and rulers for ₦8.00 each so that minimum number of items are bought and all the money is spent, then the number of pencils bought is

- A. 6 B. 3 C. 2 D. 1 E. 4

58.  $\log_a x^2 - c \log_a x = 0$  then c

- A. 4 B. 3 C. 5 D. 2 E. -3

59.  $x^3 - 3x^2 + 4x - 12 = 0$  if x =

- A. 4 B. 8 C. 2 D. 3 E. -4

60. Evaluate  $\frac{1}{2} + \frac{3}{4}$  of  $\frac{2}{5} \div 1\frac{3}{5}$

- A.  $\frac{15}{16}$  B.  $\frac{5}{16}$  C.  $\frac{49}{50}$  D.  $3\frac{1}{5}$

61. Given that  $y = px + q$  and  $y = 5$  when  $x = 3$ , while  $y = 4$  when  $x = 2$  find the values of p and q

- A.  $p = 1, q = 3$  B.  $p = 1, q = 2$  C.  $p = -2, q = 3$  D.  $p = 3, q = -2$

62. If  $\frac{y-3}{2} < \frac{2y-1}{3}$ , which of the following is true?

- A.  $y > 7$  B.  $y < -7$  C.  $y > 7$  D.  $y < 7$

63. A boy estimated his transport fare for a journey as ₦190 instead of ₦200. Find the percentage error in his estimate.

- A. 95% B. 47.5% C. 5.26% D. 5%

64. The value of  $\frac{3}{2} \times \frac{10}{21} \times \frac{7}{5} =$  A. 5 B.  $\frac{1}{5}$  C. 1 D. 7

65. There are three boys and three girls in a party. In how many different ways can they dance?

- A. 12 B. 6 C. 9 D. 8

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66. If a sweet costs N2.00, a chocolate costs N3.00 and a cake costs N5.00 then buy from each item at least one and as many items as possible from N20.00. The number of sweets you buy then is  
A. 10                                      B. 6                                      C. 8                                      D. 6
67.  $\left(\sqrt[6]{(3)^{12}}\right)^{\frac{1}{2}} =$                                       A. 9                                      B.  $3^{1/2}$                                       C. 3                                      D. 27
68.  $\log x^{\log x} = 1$  where  $\log x = \log_{10} x$ . Then  $x =$   
A. 10 or  $1/10$                                       B. 0                                      C. 2                                      D. 3
69. If the elements of a series are 1, 2, 3, 5, 8, 13 ... then the next element is  
A. 22                                      B. 19                                      C. 16                                      D. 21
70.  $\log_{27} x =$                                       A.  $2\log_9 x$                                       B.  $3\log_3 x$                                       C.  $2\log_6 x$                                       D.  $2\log_3 x$

## BIOLOGY

1. The wavelike motion of the muscles of the oesophagus to push each bolus of food downwards is known as  
**A. Anti-peristalsis**   **B. Digestion**   **C. Peristalsis**   **D. Oesophageal motion**
2. Which of these diseases cannot be controlled by killing the vectors?  
**A. River blindness**   **B. Malaria**   **C. Polio**   **D. Cholera**
3. If a tall man (TT) marries a dwarf woman (tt) and they have four children, what will be the ratio of tall to dwarf children?  
**A. 0 tall:4 dwarf**   **B. 3 tall:1 dwarf**   **C. 2 dwarf:2 tall**   **D. 4 tall:0 dwarf**
4. The chromosome is found in which organelle  
**A. The Nucleus**   **B. The Mitochondria**   **C. The Vesicle**   **D. The Cytosol**
5. Photosynthetic organisms are classified as \_\_\_\_\_  
**A. Autotrophs**   **B. Heterotrophs**   **C. Herbivorous**   **D. Omnivorous**
6. Which of the organisms listed below is not a micro-organism?  
**A. Virus**   **B. Tapeworm**   **C. Coccus**   **D. Vibrio cholera**
7. The nervous system is made up of  
**A. Kidney, bladder and liver**   **B. Testes and ovaries**  
**C. Brain and spinal cord**   **D. Muscles and skeleton**
8. The synthesis of protein takes place in \_\_\_\_\_  
**A. Golgi body**   **B. Ribosome**   **C. Mitochondria**   **D. Nucleus**
9. Mutations involving alterations in the genes are called  
**A. Gene mutations**   **B. Gene changes**  
**C. Chromosomal mutations**   **D. Chromosomal changes**
10. Which vertebra has a projection on the centrum called odontoid process?  
**A. Atlas**   **B. Axis**   **C. Thoracic**   **D. Lumber**
11. Deamination occurs in  
**A. Kidney**   **B. Pancreas**   **C. Spleen**   **D. Liver**
12. The ability of an organisms to live successfully in an environment is known as  
**A. Succession**   **B. Resistance**   **C. Adaptation**   **D. Competition**
13. The following are connected with the movement of a reflex action  
 (1) Central nervous system, (2) Muscle, (3) Skin, (4) Sensory nerve, (5) Motor nerve  
 Which of the following sequences indicates a correct path?  
**A. 1-2-3-4-5**   **B. 2-1-4-5-3**   **C. 3-4-1-2-5**   **D. 3-4-1-5-2**
14. Which of the following statements is NOT true of symbiosis?  
**A. Symbionts must be living**   **B. It is an association of 'give and take'**  
**C. The association may involve two plants**   **D. Association between two similar species**
15. The deficiency of Vitamin D leads to:  
**A. Scurvy**   **B. Pellagra**   **C. Rickets**   **D. Beriberi**
16. Hepatic portal vein is unique because it  
**A. Carries deoxygenated blood**   **B. Begins and ends with capillaries**  
**C. Is the largest vein in mammals**   **D. Carried digested food**
17. The thoracic vertebrae of a mammal is characterized by the  
**A. Vertebrarterial canal**   **B. Prominent neural arch**  
**C. Prominent neural process**   **D. Prominent neural spine**
18. A grasshopper respire by means of its  
**A. Lung-books**   **B. Gills**   **C. Lungs**   **D. Tracheal tubes**
19. The inactive state exhibited by an animal during hot dry seasons is termed  
**A. Aestivation**   **B. Dormancy**  
**C. Resting**   **D. Hibernation**

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20. Auxins are produced in the
  - A. petiole of leaves
  - B. parenchyma of roots and shoots
  - C. epidermis of roots and shoots
  - D. apical regions of roots and shoots
21. Which of the following methods of reproduction is common in Paramecium and Amoeba?
  - A. Conjugation
  - B. Sexual reproduction
  - C. Binary Fission
  - D. Budding
22. An example of cryptic coloration is the:
  - A. Mottled colours on moths that rest on lichens
  - B. Bright colour of an insect pollinated flower
  - C. Green colour of a plant
  - D. Bright marks on a poisonous tropical frog on variegated leaves
23. Which of the following organs is responsible for controlling the body temperature regulation and water balance in mammals?
  - A. Kidney
  - B. Hypothalamus
  - C. Parathyroid
  - D. Adrenal
24. A man and his wife are both heterozygous for the sickle cell trait. The likely percentage of their offspring that will either be carriers or 'sicklers' is
  - A. 75%
  - B. 50%
  - C. 25%
  - D. 100%
25. The brain and the spinal cord make up the
  - A. Peripheral nervous system.
  - B. Autonomic nervous system
  - C. Central nervous system.
  - D. Somatic nervous
26. The hormone which regulates the amount of sugar in the blood is
  - A. Thyroxine
  - B. Auxin
  - C. Insulin
  - D. Adrenalin
27. Which of the following is the effect of using artificial pollination in plant breeding?
  - A. production of healthy crops
  - B. improvement of the variety of crops
  - C. lengthening the maturity time
  - D. making crops susceptible to diseases
28. Which of the following processes will not introduce carbon dioxide into the atmosphere?
  - A. breathing
  - B. photosynthesis
  - C. Respiration
  - D. Putrefaction
29. Which of the following does not contribute to the biomass in an ecosystem?
  - A. producer's
  - B. food chain
  - C. consumer's
  - D. micro-organisms
30. Which of these diseases cannot be prevented by immunization
  - A. Onchocerciasis
  - B. Poliomyelitis
  - C. Cholera
  - D. Tuberculosis
31. Which of the following specialized structures are stimulated by touch, pressure, pain, heat and cold?
  - A. receptors
  - B. synapse
  - C. cell bodies
  - D. myelin
32. The process by which plants and animals are modified in structure, physiology and behavior in order to survive is known as
  - A. evolution
  - B. adaptation
  - C. succession
  - D. hibernation
33. Thunderstorm can be beneficial to plants because it
  - A. kills pests that attack crops
  - B. adds lime to the soil
  - C. adds nitrates to the soil
  - D. makes rain water available to plants
34. When large numbers of organisms share limited space and resources, the result is
  - A. immigration
  - B. symbiosis
  - C. extinction
  - D. competition
35. Even though some flowering plants contain accessory pigments which give them colors, they still contain the pigment
  - A. melanin
  - B. chlorophyll
  - C. carotene
  - D. xanthophyll
36. Which structure in the maize grain stores food?
  - A. radicle.
  - B. embryo
  - C. cytoplasm
  - D. endosperm
37. Which of the following statements is not associated with the theory of natural selection?
  - A. There is a struggle for existence
  - B. There is competition among the offspring
  - C. The weaker offspring's are eliminated
  - D. Food and other needs are abundant
38. Nitrogen fixing micro-organisms in leguminous plants live symbiotically in the
  - A. branch roots
  - B. tap roots
  - C. root nodules
  - D. root hairs



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39. The epidermis of the mammalian skin is an example of a tissue because the cells
  - A. prevent light from passing through them
  - B. Have a similar structure and function
  - C. prevent excessive loss of water
  - D. are impregnated with keratin
40. The phenomenon whereby some organisms with certain features get established in an environment is known as
  - A. Partial selection
  - B. Artificial selection
  - C. Natural selection
  - D. Mutation
41. Who formulated the theory of natural selection in evolution?
  - A. Gregor Mendel.
  - B. Jean Lamarck
  - C. Mathias Scheiden
  - D. Charles Darwin
42. Which of the following statements is not correct of respiration?
  - A. Gaseous exchange occurs by diffusion
  - B. Oxygen combines with hemoglobin in the respiratory surface
  - C. Carbon dioxide produced in the tissues is removed by the process of osmosis
  - D. there are no special organs of respiration in plants
43. Which of the following constitutes the main internal tissues of a leaf?
  - A. Cuticle
  - B. Mesophyll
  - C. Vascular tissue
  - D. Lower epidermis
44. Which of the following is an autotrophic mode of nutrition?
  - A. Chemosynthesis
  - B. Saprophytism
  - C. Parasitism
  - D. Symbiosis
45. Which of the following structures differentiates an animal cell from a plant cell?
  - A. Ribosomes
  - B. Cell membrane
  - C. Chloroplast
  - D. Mitochondrion
46. The change in colour of the chameleon serves as a means of
  - A. attraction to the opposite sex
  - B. repulsion of the enemy
  - C. a camouflage from a predator
  - D. regulation of body temperature
47. At which of the following stages of mitosis do the two daughter chromosomes separate completely?
  - A. early prophase
  - B. telophase
  - C. Anaphase
  - D. late prophase
48. The role of dead organic matter in the soil is to
  - A. Make the soil black.
  - B. Increase the mineral salt content.
  - C. Provide food for all living organisms
  - D. Increase the acidity of the soil.
49. If the petals of a flowering plant are removed, which of the following processes is likely to be affected?
  - A. Transpiration
  - B. Pollination
  - C. Germination
  - D. Photosynthesis
50. Which of these substances is likely to be deficient in the diet of a person having goiter?
  - A. Potassium
  - B. Calcium
  - C. Iodine
  - D. Sodium
51. Banana, plantain and pineapple can be grouped together because they
  - A. produce small seeds
  - B. are multiple fruits
  - C. produce suckers
  - D. have runners
52. The structure in the cell that controls the movement of substances in and out of the cell is the
  - A. Cytoplasmic membrane
  - B. Nuclear membrane
  - C. Cytoplasm
  - D. Protoplasm
53. Which of the following statements is not true of osmotic process?
  - A. There must be a selectively permeable membrane
  - B. The two solutions must be of different concentrations initially
  - C. It involves only the movement of water molecules
  - D. The two solutions are of equal concentration at the beginning of the experiment.
54. The pulmonary artery carries
  - A. de-oxygenated blood from the right ventricle to the lungs
  - B. oxygenated blood from the right ventricle to the lungs
  - C. oxygenated blood from the left ventricle to the right auricle
  - D. de-oxygenated blood from the left ventricle to the right auricle
55. Which of the following parts of the mammalian brain is involved in taking the decision to run rather than walk?

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- A. Cerebellum  
C. Cranial nerves
56. Water rises most rapidly in  
A. Sandy soil.  
C. Sandy-loam soil
57. Euglena moves by:  
A. Whipping of its flagellum  
C. Rotating action of the flagella
58. The following life processes are common to both plants and animal except  
A. respiration  
C. reproduction
59. Which of the following statements is correct of hormones? Hormones are  
A. secreted into the blood through ducts  
C. inactive chemical substances in the blood stream
60. Which of the following statements is not associated with the theory of natural selection?  
A. there is a struggle for existence  
C. the weaker offspring are eliminated
61. Water is necessary for a germinating seed because it  
A. promotes aerobic respiration  
C. wets the soil for proper germination
62. The farming practice by which an exhausted land is left for a number of years before cultivation is known as  
A. crop rotation  
C. mono cropping
63. Which of the following instruments is used for determining the turbidity of the water?  
A. thermometer  
C. Rain Gauge.
64. The surest way to combine the best qualities of both parents in the offspring is by  
A. cross-breeding  
C. selective breeding
65. Which of the following is not true about gene mutation?  
A. it introduces new traits into a population  
C. is a source of new genes
66. In unicellular organisms, essential nutrients can be transported directly to all parts of the body by the process of diffusion only because unicellular organisms have:  
A. A large surface area to volume ratio  
C. Permeable cell membrane
67. Which of the following is not present in the nucleus of a cell?  
A. Chromosomes  
C. Mitochondrion
68. The structure in the cell that controls the movement of substance in and out of the cell is the  
A. Cytoplasmic membrane  
C. Cytoplasm
69. Which of these is not an excretory product of plant?  
A. Tannin  
C. Alkaloid
70. Which of the following processes will not introduce carbon dioxide into the atmosphere?  
A. Breathing  
C. Respiration
- B. Medulla oblongata  
D. Cerebrum
- B. Clayey soil  
D. Loamy soil
- B. Beating of its cilia  
D. pushing out a jet of water from an organelle
- B. growth  
D. photosynthesis
- B. secreted directly into the blood stream  
D. non-specific in their mode of action
- B. there is a competition among offspring  
D. Food and other needs are abundant
- B. activates the enzymes  
D. protects the seed from desiccation.
- B. continuous cropping  
D. bush fallowing
- B. Secchi Disc.  
D. Hygrometer
- B. in breeding  
D. all of the above
- B. causes changes in the DNA  
D. always affects the chromosome number
- B. A large volume to surface area ratio  
D. Their body is always immersed in the nutrient material
- B. Nucleolus  
D. Genes
- B. Nuclear membrane  
D. Protoplasm
- B. Gum  
D. Sweat
- B. Photosynthesis  
D. Putrefaction

## CHEMISTRY

- \_\_\_\_\_ are allotropes of carbon  
**A.** graphite and sulphur      **B.** amorphous charcoal and coke  
**C.** diamond and graphite      **D.** carbon monoxide and coke
- A substance is said to be hygroscopic if it \_\_\_\_\_  
**A.** does not absorb moisture      **B.** is suspended in water  
**C.** dissolves when it absorbs moistures      **D.** hydrolysis in water
- $\text{CH}_3\text{CO}_2\text{H} + \text{CH}_3\text{CH}_2\text{OH} \longrightarrow ?$  The functional group under and in the equation is a/an \_\_\_\_\_ group  
**A.** Alkanol      **B.** Carbonyl      **C.** Keto      **D.** Carboxylic acid
- The gas equation  $\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$  is made up of Charles' Law and \_\_\_\_\_ law  
**A.** Le Chateliers'      **B.** Gay-Lussac's      **C.** Boyle's      **D.** Newton's
- The acid in butter is called \_\_\_\_\_ acid  
**A.** Butanonoic      **B.** Butyric      **C.** Benzoic      **D.** Butandioic
- The oxidation state of calcium is  $\text{CaCl}_2$  is \_\_\_\_\_  
**A.** +1      **B.** +2      **C.** +3      **D.** +4
- The mass number of an atom of an element is the sum of its  
**A.** Electrons, neutrons and protons      **B.** Electrons and protons  
**C.** Protons and neutrons      **D.** Valence electrons
- The existence of two or more forms of the same element in the same physical state is known as.  
**A.** Allotropy      **B.** Resonance      **C.** Hybridization      **D.** Isotopy
- In which of the following are radioactive isotopes used?  
**A.** Scientific research      **B.** Dating techniques  
**C.** Treatment of cancer      **D.** All of the above
- The phenomenon observed when dust particles collide randomly in a beam of sunlight is known as  
**A.** Tyndal effect      **B.** Diffusion      **C.** Osmosis      **D.** Brownian movement
- The main characteristic features of transition metals are that they  
**A.** Have the same atomic size      **B.** Are reducing agents  
**C.** Forms ions easily      **D.** Have variable oxidation states
- In 1898, which scientist proposed that the atom is a sphere of positively charged matter in which negatively charged electrons are embedded  
**A.** Earnest Rutherford      **B.** Max Planck      **C.** J.J Thomson      **D.** Robert Millikan
- Oxygen gas is collected in the laboratory by \_\_\_\_\_  
**A.** upward displacement of air      **B.** upward displacement of water  
**C.** downward displacement of water      **D.** using a gas layer
- $\text{CuO} + \text{H}_2 \longrightarrow \text{Cu} + \text{H}_2\text{O}$  In the reaction above CuO is \_\_\_\_\_  
**A.** oxidized to copper      **B.** reduced to copper  
**C.** chemically converted to copper      **D.** reversed to copper
- Isotopes are atoms if the same element with \_\_\_\_\_  
**A.** different protons      **B.** mass above 50  
**C.** inter convertible masses      **D.** different masses
- A reaction is in equilibrium when \_\_\_\_\_  
**A.** the rate of the forward reaction is equal to the rate of the reverse reaction  
**B.** the reaction rates of the forward and backward reaction are zero  
**C.** its rate is reversible  
**D.** it does not produce ant product again
- The boiling point of a liquid such as methanol is the temperature at which its  
**A.** vapour pressure is equal to 1 atmosphere

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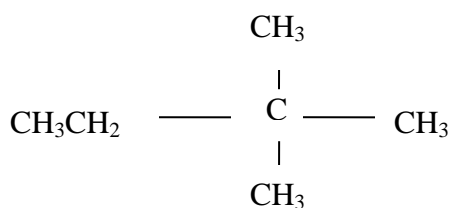
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- B. vapour pressure is equal to the atmospheric pressure  
 C. reactants and products are at standard states  
 D. vapour pressure doubles atmospheric pressure
18. Alkenes and \_\_\_\_\_ are compounds that contain a multiple bond each  
 A. Alkanes      B. Benzene      C. Alkynes      D. Benzaldehyde
19. A palm fruit dropped to the ground from the top of a tree 45m tall, how long does it take to reach the ground? (take  $g=10\text{ms}^{-2}$ )  
 A. 1s      B. 2s      C. 3s      D. 5s
20. \_\_\_\_\_ is due to the formation of hydrogen gas bubbles around the copper plate of a simple cell  
 A. polarization      B. depolarization      C. local action      D. amalgamation
21. Which of the following can be explained by the kinetic theory?  
 I. The physical state of matter      II. Diffusion of gases  
 III. Melting of solid      IV. Evaporation of liquids  
 A. IV      B. I & II      C. III & IV      D. I, II & III      E. I, II, III & IV
22. The properties of electrovalent compounds include the following except  
 A. High melting point and boiling point  
 B. Conduction of electricity in the molten state  
 C. High volatility at room temperature  
 D. Ionization in aqueous solution
23. Which of the following statements is not corrected about electrolysis?  
 A. Reduction occurs at the anode  
 B. Anions migrate to the anode  
 C. Positive ions migrate to the cathode  
 D. Concentration affects the discharge of ions
24. Separation of mixtures of solids by physical methods can be based on differences in the following except  
 A. Melting point  
 B. Solubility  
 C. Particle size  
 D. Molar mass
25. The following are major gaseous pollutants except.  
 A. CO      B. CO<sub>2</sub>      C. SO<sub>2</sub>      D. CFC
26. Brass is an alloy containing copper and  
 A. zinc      B. tin      C. silver      D. lead
27. Which of the following reduces the activation energy of a chemical reaction?  
 A. freezing mixture      B. reducing agent  
 C. water      D. catalyst
28. In the electrolysis of brime, the anode is  
 A. carbon      B. platinum      C. zinc      D. copper
29. What current in ampere will deposit 0.27g of aluminium in 2 hours? [Al=27, F=96500C].  
 A. 3.2      B. 8      C. 0.4      D. 16
30. What is the likely formula of a compound formed between element M in group 2 and between element X in group 7?  
 A. M<sub>7</sub>X<sub>2</sub>      B. MX<sub>2</sub>      C. M<sub>2</sub>X<sub>7</sub>      D. M<sub>2</sub>X
31. Which of the following can be explained by the kinetic theory?  
 I. The physical state of matter      II. Diffusion of gases      III. Melting of solid      IV. Evaporation of liquids  
 A. IV      B. I & II      C. III & IV      D. I, II & III      E. I, II, III & IV
32. The properties of electrovalent compounds include the following except  
 A. High melting point and boiling point      B. Conduction of electricity in the molten state  
 C. High volatility at room temperature      D. Ionization in aqueous solution  
 E. Decomposition of their solutions by electric current

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33. Which of the following statements is not correct about electrolysis?  
**A.** Reduction occurs at the anode **B.** Anions migrate to the anode  
**C.** Positive ions migrate to the cathode **D.** Concentration affects the discharge of ions  
**E.** Electrolysis conduct electric current
34. Separation of mixtures of solids by physical methods can be based on differences in the following except  
**A.** Melting point **B.** Solubility **C.** Particle size **D.** Molar mass
35. The following are major gaseous pollutants except.  
**A.** CO **B.** CO<sub>2</sub> **C.** SO<sub>2</sub> **D.** CFC
36. The ratio of reactants to products is 1: 3: 2 in the reaction represented by the equation below: N<sub>2(g)</sub> + 3H<sub>2(g)</sub> → 2NH<sub>3(g)</sub> which of the following laws is demonstrated by this?  
**A.** Boyle's law **B.** Law of multiple proportion  
**C.** Gay Lussac's law **D.** Law of constant composition
37. PH of a 0.0001M acid is  
**A.** 1 **B.** 2 **C.** 3 **D.** 4
- 38.



How many isomers of the compound above can be obtained?

- A.** 5 **B.** 4 **C.** 3 **D.** 2
39. Alkanoates are produced from alkanols by  
**A.** Esterification **B.** Fermentation  
**C.** Saponification **D.** Oxidation
40. Esters are employed in the following except  
**A.** Making perfumes **B.** Nail varisher  
**C.** Making solvent for cellulose trioxonitrate(V) **D.** Making cement
41. What mass of anhydrous sodium trioxocarbonate(IV) is present in 500cm<sup>3</sup> of 0.1mol dm<sup>-3</sup> of the solution [Na=23, C=12, O=16]  
**A.** 10.6g **B.** 106g  
**C.** 5.3g **D.** 53g
42. The oxidation state of oxygen in tetraoxosulphate(IV) acid is  
**A.** -4 **B.** +4  
**C.** -2 **D.** +2
43. Metals of the first transition series have special properties which are different from those of groups I and II elements because they have partially filled  
**A.** S orbital **B.** P orbital **C.** D orbital **D.** F orbital
44. Separation of different carotenes from carrot root uses a method  
**A.** centrifugation **B.** Distillation **C.** chromatography  
**D.** carotinization
- 45.

<b>Solution</b>	<b>W</b>	<b>X</b>	<b>Y</b>	<b>Z</b>
<b>Ph</b>	8	12	4	2

From the table, which of the solutions W, C, Y and Z will liberate carbon (IV) oxide from a trioxocarbonate (IV) salt?

- A.** Z **B.** Y **C.** W **D.** X
46. 50cm<sup>3</sup> of a saturated solution of KNO<sub>3</sub> at 40°C contained 5.05g of the salt. What is the solubility of KNO<sub>3</sub> at 40°C [K=39, N=14, O=16]  
**A.** 1.0moldm<sup>-3</sup> **B.** 1.5moldm<sup>-3</sup> **C.** 2.0moldm<sup>-3</sup> **D.** 5.0moldm<sup>-3</sup>

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47. A brand of ink containing cobalt (III), copper (II) and iron(II) ions can best be separated into its various components by  
**A.** fractional crystallization **B.** fractional distillation **C.** sublimation **D.** chromatography
48. If the rate law obtained for a given reaction is given as  $\text{rate} = K[X]^n [Y]^m$ , what is the overall order of the reaction.  
**A.** nm **B.**  $\frac{n}{m}$  **C.** n+m **D.** n-m
49. A molecular formula shows \_\_\_\_\_ in a molecule  
**A.** the elements present **B.** the number of atoms of each element  
**C.** cations and anions **D.** chemical symbols and number of atoms
50. Give the total mass of copper in 1gm of copper (II) sulphate  
 [Cu = 40; S = 32; O = 16]  
**A.** 0.25g **B.** 0.50g **C.** 10g **D.** 2.5g
51.  ${}_{55}^{114}\text{Cs} \longrightarrow {}_Z^A\text{E} + {}_2^4\alpha$   
 Find the value of A and Z in the equation above  
**A.** 119, 53 **B.** 110, 57 **C.** 110, 53 **D.** 110, 58
52. How many moles of  $\text{H}_2$  molecules are needed to convert 5 mol of  $\text{O}_2$  molecules to water?  
**A.** 5 mol  $\text{H}_2$  **B.** 10 mol  $\text{H}_2$  **C.** 15 mol  $\text{H}_2$  **D.** 20 mol  $\text{H}_2$
53.  ${}_{88}^{226}\text{Ra} \rightarrow {}_{86}^X\text{Rn} + \alpha$ . What is the value of X in the nuclear reaction above?  
**A.** 220 **B.** 222 **C.** 226 **D.** 227.
54. When naphthalene on heating changes from solid state directly to the gaseous state, it undergoes  
**A.** sublimation **B.** evaporation **C.** combustion **D.** decomposition
55. Which of the following is an electrolyte?  
**A.** alcohol **B.** sodium ethanoate **C.** solid potassium hydroxide **D.** mercury
56. The equation  ${}_{7}^{14}\text{N} + {}_2^4\text{He} \rightarrow {}_8^{17}\text{O} + {}_1^1\text{P}$  represents.  
**A.** nuclear fusion **B.** nuclear fission  
**C.** artificial radioactivity **D.** nuclear fission using positron
57. Which of the following is a general method of preparing acids?  
**A.** Direct combination of constituent elements **B.** Double decomposition involving a salt solution  
**C.** Reaction between an anhydride and water **D.** Reaction between a base and an amphoteric oxide  
**E.** Dissolution of hydroxides followed by neutralization
58. Monosaccharides are  
**A.** hydrolysable **B.** non-hydrolysable **C.** not soluble in water **D.** sweet but sometimes non sugary
59. The major air pollutants that can result from smoky vehicles include  
**A.** Acid fumes **B.** Hydrogen sulphide  
**C.** Carbon (II) oxide **D.** Carbon particles
60. If an element has the electronic configuration  $1s^2, 2s^2, 2p^6, 3s^2, 3p^4$ , it is  
**A.** metal **B.** An alkaline earth metal  
**C.** An S-block element **D.** A P-block element
61. Compounds that have the same molecular formula but different structures are said to be  
**A.** Allotropic **B.** Isotopic  
**C.** Polymeric **D.** Isomeric
62. Which of the following statements is not correct?  
**A.** Carbon exhibits allotropy **B.** Sulphur exhibits allotropy  
**C.** Chlorine exhibits allotropy **D.** Hydrogen is a gas
63.  $300\text{cm}^3$  of a gas has a pressure 400mmHg. If the pressure is reduced to 150mmHg. Find its volume.  
**A.**  $700\text{cm}^3$  **B.**  $800\text{cm}^3$   
**C.**  $350\text{cm}^3$  **D.**  $112.5\text{cm}^3$



64. The ideal gas equation can be written as

A.  $\frac{V_1}{T_1} = \frac{V_2}{T_2}$

B.  $P_1V_1 = P_2V_2$

C.  $V_2 = \frac{P_1V_1T_1}{P_2T_2}$

D.  $P_1V_1T_2 = P_2V_2T_1$

65. Ethyne, Ethene, Cyclohexane and Propene can be classified as \_\_\_\_\_

A. alkenes

B. aromatic compounds

C. saturated compounds

D. multiple bond hydrocarbons

66. If the PH of a compound is 3.2 that compound is \_\_\_\_\_

A. Amphoteric

B. A Salt

C. An Acid

D. A Base

67. Which is the most ionic in the group below

A.  $\text{Cl}_2$

B. NaCl

C.  $\text{AlCl}_3$

D.  $\text{CaCl}_2$

68. Hydrogenation of palm oil results in a solid compound called

A. candle

B. solid palm oil

C. palm oil

D. ester

69. An Amphoteric compound \_\_\_\_\_

A. Reacts with alcohols

B. Reacts both as an acid and as a base

C. It is solid at room temperature

D. has a PH of 7

70. In structural isomerism same atoms are linked to \_\_\_\_\_

A. carbon atoms

B. similar atoms

C. different neighbouring atoms

D. different functional groups



# PHYSICS

- The weakest form of bonding in materials is  
A. Ionic      B. Metallic      C. Covalent      D. Van der Waals
- The period of a simple pendulum oscillating in a vacuum depends on  
A. The mass of the pendulum      B. The length of the pendulum  
C. The acceleration due to gravity      D. The volume of the pendulum
- Which one of the following phenomenon cannot be explained by the wave theory of light?  
A. Refraction      B. Interference      C. Diffraction      D. Photoelectric effect
- Which of these best describes the power of a lens  
A.  $P = 1/f$       B.  $P = f/\mu$       C.  $P = f\lambda$       D.  $P = f\mu$
- Which of the following attributes of a machine does not depend on friction?  
(1) Mechanical advantage (2) Velocity ratio (3) Efficiency  
A. 1 only      B. 2 only      C. 3 only      D. 1 and 2 only
- A cell is a device which converts  
A. Kinetic energy to potential energy      B. Sound energy to electrical energy  
C. Chemical energy to heat energy      D. Chemical energy to electrical energy
- In which of the following media would sound waves travel fastest  
A. kerosene      B. alcohol      C. water      D. iron
- Which of the following is not a use of plain mirrors  
A. as wing mirrors on cars      B. as a looking glass  
C. in a periscope      D. in a kaleidoscope
- If  $V$  is the velocity of a wave,  $\lambda$  is its wavelength and  $T$  its period. The  $V$ ,  $\lambda$  and  $T$  are related by the expression  
A.  $\lambda = V/T^2$       B.  $V = \lambda T$       C.  $\lambda = VT$       D.  $\frac{T}{\lambda}$
- Three 3.0 ohm resistors are connected in parallel. What is the equivalent resistance?  
A. 9.0 ohm      B. 1.0 ohm      C. 6.0 ohm      D. 3.0 ohm
- The distance between two successive crest or trough is  
A. amplitude      B. wavelength      C. frequency      D. wave distance
- An object is placed 15cm in front of a convex mirror and an image is produced 5cm behind the mirror, calculate the focal length of the mirror  
A. -7.5cm      B. 10cm      C. 7.5cm      D. 20cm
- A ball is projected horizontally at 15m/s from a point 20m above a horizontal surface ( $g=10\text{m/s}^2$ ). The magnitude of its velocity in m/s when it hits the surface is  
A. 10      B. 15      C. 20      D. 25
- A malaria patient has a body temperature of  $39.5^\circ\text{C}$ . Convert this temperature to  $^\circ\text{F}$ .  
A.  $83.2^\circ\text{F}$       B.  $103.1^\circ\text{F}$       C.  $77.4^\circ\text{F}$       D. 147.
- Positive charges usually move from  
A. Higher to lower potential areas      B. Lower to higher potential areas  
C. North to south      D. Higher resistance to lower resistance areas
- A truck traveling with a velocity of 40m/s applies the brakes and comes to a halt after 20 seconds. What is distance traveled by the truck before coming to a halt  
A. 40m      B. 800m  
C. 400m      D. 10m
- In a harmonic oscillation of a simple pendulum, one of the following statements is correct  
A. The potential energy and the kinetic energy of the bob are equal at all times  
B. The potential energy is equal to the kinetic energy at the central position of the oscillation  
C. The potential and the kinetic energies of the bob are maximum at the maximum height of the oscillation  
D. None of the above
- If the linear expansivity of a metal rod is  $4 \times 10^{-5}$  per  $^\circ\text{C}$ , what will be the new length of the rod if it is heated from  $15^\circ\text{C}$  to  $95^\circ\text{C}$  from its original length of 20cm  
A. 0.064 cm      B. 0.64 cm  
C. 20.64 cm      D. 20.064 cm

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19. The heat required to melt ice at  $0^{\circ}\text{C}$  to water at the same temperature is called  
**A.** Apparent heat of fusion    **B.** Apparent heat of vaporization  
**C.** Latent heat of vaporization    **D.** Latent heat of fusion
20. Which of the following is used in a nuclear reactor to slow down fast moving electrons?  
**A.** Carbon dioxide gas  
**B.** Liquid sodium metal  
**C.** Concrete shield  
**D.** Graphite rods.
21. Calculate the power-rating of a heating element which melted in 20g of ice at  $0^{\circ}\text{C}$  and raised the temperature of the resulting water to  $60^{\circ}\text{C}$  in 2 minutes  
*Specific latent heat of fusion of ice =  $340 \text{ J/g}$*   
*Specific heat capacity of water =  $4.2 \text{ J/g}^{\circ}\text{C}$*   
**A.** 5.92kw    **B.** 98.6w    **C.** 107w    **D.** 42w
22. If a man cannot see objects very close to him the following can be used to correct the problem.  
**A.** Convex lens    **B.** Convex mirror    **C.** Concave lens    **D.** Concave mirror
23. when the bob of a simple pendulum is at it's highest displacement, one of the following happens:  
**A.** kinetic energy is maximum    **B.** potential energy is maximum  
**C.** total energy is zero    **D.** momentum is maximum
24. When the atmospheric pressure is very low in a given location, boiling point of water:  
**A.** increases    **B.** decreases    **C.** remains    **D.** cannot boil
25. Which of these statements is correct about cathode rays. They are fast moving  
**A.** atoms    **B.** neutrons    **C.** electrons    **D.** ions
26. Which of the following has the highest surface tension.  
**A.** soapy water    **B.** cold water  
**C.** warm water    **D.** Salt water
27. A truck traveling with a velocity of  $40\text{m/s}$  applies the brakes and comes to a halt after 20 seconds. What is the distance traveled by the truck before coming to a halt  
**A.** 40m    **B.** 800m    **C.** 400m    **D.** 10m
28. If the linear expansivity of a metal rod is  $4 \times 10^{-5}$  per  $^{\circ}\text{C}$ , what will be the new length of the rod if it is heated from  $15^{\circ}\text{C}$  to  $95^{\circ}\text{C}$  from its original length of 20cm  
**A.** 0.064 cm    **B.** 0.64 cm    **C.** 20.64 cm    **D.** 20.064 cm
29. 44KJ of heat was used in raising the temperature of 2kg of paraffin oil from 360K to 370K. Calculate the specific heat capacity of paraffin oil  
**A.**  $2.2 \text{ J/kg/K}$     **B.**  $2.2 \times 10^3 \text{ J/kg/K}$     **C.**  $2.2 \times 10^5 \text{ J/kg/K}$     **D.** 220 J/kg/K
30. A simple machine overcomes a load of 4000N when a force of 200N is applied. If the velocity ration of the machine is 25, calculate the efficiency of the machine?  
**A.** 1.25%    **B.** 80%    **C.** 125%    **D.** 0.8%
31. A long sighted person is to read a book held at a distance of 20cm from the eyes. Which of the following will the person require to read the book with ease?  
**A.** Nothing    **B.** Concave lens    **C.** Convex lens    **D.** Concave mirror
32. An object at the bottom of a pool of liquid 10m depth is seen by an observer as if it is at 8m depth. What is the refractive index of the liquid  
**A.** 0.25    **B.** 0.20    **C.** 1.25    **D.** 0.8
33. Which of the following has the highest surface tension?  
**A.** soapy water    **B.** cold water    **C.** warm water    **D.** Salt water
34. The emf developed in a circuit is directly proportional to the rate of change of magnetic flux. The above was a finding from  
**A.** Maxwell    **B.** Faraday    **C.** Ampere    **D.** Lenz
35. Which of the following is stored by a dry leclanche cell?  
**A.** Chemical energy    **B.** Solar energy    **C.** Electrical energy    **D.** Heat energy
36. A ball is projected horizontally from the top of a hill with a velocity of  $20\text{m/s}$ . if it reaches the ground 4 seconds later. What is the height of the hill? ( $g=10\text{m/s}^2$ ).  
**A.** 200m    **B.** 20m    **C.** 160m    **D.** 40m

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37. The expansion of solids can be considered a disadvantage in
  - A. fire-alarm system
  - B. thermostat
  - C. riveting of steel plates
  - D. balance wheel of a watch
38. An object is placed between 2 mirrors inclined at an angle of  $120^\circ$  and facing each other. Determine the number of images observed in the 2 mirrors
  - A. 2
  - B. 3
  - C. 4
  - D. 1
39. Which of these instruments is suitable for making the most accurate measurement of the internal diameter of a test tube?
  - A. metre rule
  - B. vernier callipers
  - C. micrometer screw gauge
  - D. spectrometer
40. Which of the following instruments would be best suited in studying the stars?
  - A. periscope
  - B. microscopes
  - C. telescopes
  - D. spectroscopy
41. A gas which obeys Charles law exactly has a volume of  $283\text{cm}^3$  at  $10^\circ\text{C}$ . what is the volume at  $30^\circ\text{C}$ ?
  - A.  $142\text{cm}^3$
  - B.  $293\text{cm}^3$
  - C.  $303\text{cm}^3$
  - D.  $566\text{cm}^3$
42. Electrical resistance is a property of an electric conductor that causes electrical energy to be converted to
  - A. mechanical energy
  - B. solar energy
  - C. heat energy
  - D. chemical energy
43. Which of the following has the greatest penetrating power?
  - A. beta particles
  - B. Alpha particles
  - C. gamma rays
  - D. Neutrons
44. The change in direction of a wave front as a result of a change in the velocity of the wave in another medium is called
  - A. interference
  - B. diffraction
  - C. refraction
  - D. reflection
45. Which of the following is a reason why concrete floor feels colder to the bare feet than a mat on the same floor during the rainy season?
  - A. mat is a better conductor of heat than the feet
  - B. mat loses heat to the bare feet at a faster rate than concrete floor.
  - C. mat loses heat to the bare feet while the concrete floor extracts heat from them.
  - D. concrete floor is a better conductor of heat than the mat.
46. A short-sighted person needs one of the following types of lens to correct the vision
  - A. convex lens
  - B. concave lens
  - C. plano-convex lens
  - D. plano-concave lens
47. The motion of a body is simple harmonic if the
  - A. acceleration is always directed towards a fixed point
  - B. path of motion is a straight line
  - C. acceleration is directed towards a fixed point and proportional to its distance from the point
  - D. acceleration is proportional to the square of the distance from a fixed point.
  - E. acceleration is constant and directed towards a fixed point.
48. An object is placed  $25\text{cm}$  in front of a convex lens of focal length  $10\text{cm}$ . The image of the object will be
  - A. real inverted and magnified
  - B. real upright and magnified
  - C. real upright and diminished
  - D. real inverted and diminished
49. Any successful lift-off of space-craft uses the application of
  - A. Newton's First Law
  - B. Newton's Second Law
  - C. Newton's Third Law
  - D. All of the above
50. When a carpenter screws a nail into an object, the distance travelled into the object at a full circle of the head of the screw is called
  - A. pitch
  - B. thimble
  - C. wavelength
  - D. moment
51. One of the following is true of Boyle's law when the pressure of a given volume of gas increases:
  - A. volume increases
  - B. the temperature increases
  - C. the volume decreases
  - D. the temperature decreases
52. If two resistors of  $10\Omega$  and  $20\Omega$  are connected in series and then placed in parallel with another  $20\Omega$  resistor, calculate the effective resistance of the combination
  - A.  $50\Omega$
  - B.  $12\Omega$
  - C.  $10\Omega$
  - D.  $0.02\Omega$
53. Converging lenses with focal lengths  $4\text{cm}$ ,  $40\text{cm}$  and  $4\text{m}$  are available for use. Which of them will you use as a magnifying glass
  - A.  $4\text{cm}$
  - B.  $40\text{cm}$
  - C.  $4\text{m}$
  - D. None of the above

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54. A piece of aluminium of mass 0.5kg at a temperature of 100°C is placed in water of mass 0.4kg at a temperature of 10°C. If the final temperature of the mixture is 40°C. Find the specific heat capacity of aluminium if that of water is 4200J/Kg/°C  
**A.** 960J/Kg/°C                      **B.** 908J/Kg/°C                      **C.** 1860J/Kg/°C                      **D.** 1680J/Kg/°C
55. Hardness of X-rays is a measure of its  
**A.** Intensity   **B.** Density                      **C.** Penetration power                      **D.** Picture it produces
56. The half life of a radioactive substance is 2 seconds. Calculate the decay constant  
**A.** 0.035s                      **B.** 0.347s                      **C.** 0.151s                      **D.** 0.576s
57. A body moves with a constant speed but has an acceleration. This is possible if it  
**A.** moves in a straight line   **B.** moves in a circle                      **C.** is oscillating                      **D.** is in equilibrium
58. A 500kg truck moving with a velocity of 6m/s collides with a stationary 100kg car. The truck and the car move together after collision. What is their common velocity?  
**A.** 5m/s                      **B.** 10m/s                      **C.** 30m/s                      **D.** 1m/s
59. The process by which a metal heated to a high temperature gives off electrons from its surface is known as:  
**A.** radioactive emission                      **B.** field emission  
**C.** photoelectric emission                      **D.** thermionic emission
60. A total internal reflection occurs in the glass-air boundary when the angle of incidence is  
**A.** greater than the right angle                      **B.** greater than critical angle  
**C.** greater than angle of prism                      **D.** greater than angle of deviation
61. At what temperature will the Celsius scale coincide with the Fahrenheit scale?  
**A.** 4°                      **B.** -273°                      **C.** 100°                      **D.** -40°
62. Which of these statements is correct about cathode rays. They are fast moving  
**A.** atoms                      **B.** neutrons                      **C.** electrons                      **D.** ions
63. The upthrust experienced by an object immersed in a fluid makes the object feel  
**A.** Heavier                      **B.** Lighter                      **C.** sink lower                      **D.** none of the above
64. Which of the following has the highest surface tension.  
**A.** soapy water                      **B.** cold water  
**C.** warm water                      **D.** Salt water
65. Which of these is NOT a consequence of hydrogen bubbles covering the upper plate of a primary cell?  
**A.** Polarization                      **B.** Local action  
**C.** Generation of less current by the cell                      **D.** Increase in the resistance of the cell.
66. What is the current in a circuit if the charge of 240 coulombs pass each point in 2 minutes  
**A.** 120 A                      **B.** 480 A                      **C.** 4 A                      **D.** 2 A
67. An electric in Nigeria has a number of 60w coloured bulb. How many can be connected to a 240V supply through a 5A fuse  
**A.** 20                      **B.** 48                      **C.** 5                      **D.** 4
68. A radio station broadcasts on a frequency of 100MHz. If the speed of the radio wave is  $3 \times 10^8$  m/s, what is the wavelength of the radio wave from this station  
**A.**  $3 \times 10^6$  m                      **B.**  $3 \times 10^3$  m                      **C.** 300m  
**D.** 3m
69. If you need to clearly see an object that is at a very far distance, then you need to use  
**A.** periscope                      **B.** microscope  
**C.** telescope                      **D.** prismscope
70. Michael Faraday found that the EMF developed across a conductor is directly proportional to the  
**A.** current applied                      **B.** voltage applied  
**C.** rate of change of magnetic flux                      **D.** rate of change of electric flux

## COMPUTER

1. The following are output devices except:  
**A. Mouse B. Plotter C. Printer D. Speakers E. Monitor**
2. What type of device is a computer monitor?  
**A. Input B. Output C. Software D. Storage E. Processing**
3. What type of device is a computer keyboard  
**A. Input B. Output C. Software D. Storage E. Processing**
4. What type of devices are computer speakers or headphones?  
**A. Input B. Output C. Software D. Storage E. Processing**
5. What type of device is a computer printer?  
**A. Input B. Output C. Software D. Storage E. Processing**
6. What type of device is a 3 1/2 inch floppy drive?  
**A. Input B. Output C. Software D. Storage E. Processing**
7. What type of device is a computer mouse?  
**A. Input B. Output C. Software D. Storage E. Processing**
8. What type of devices are CDs or DVDs?  
**A. Input B. Output C. Software D. Storage E. Processing**
9. What type of device is a digital camera?  
**A. Input B. Output C. Software D. Storage E. Processing**
10. A program that can copy itself and infect a computer without the permission or knowledge of the owner is called what?  
**A. Floppy B. Virus C. Java D. Monitor E. Flash**
11. Which of these is a correct format of IP address?  
**A. 192.168.1.1 B. 192.168.111.1111 C. 192.168.900.1 D. 192.900.168.1 E. 192.16.168.111**
12. Which was the first web browser?  
**A. WorldWideWeb B. Netscape Navigator C. Internet Explorer D. Safari E. Chrome**
13. It is a small piece of text stored on a user's computer by a web browser for maintaining the state. What we are talking about?  
**A. Application B. Session C. Cookie D. QueryString E. Applets**
14. Which of these is a correct format of Email address?  
**A. contact.website.info B. contactwebsite.info C. [contact@website.info](mailto:contact@website.info) D. contact@website@info E. Contact.website@info**
15. What does HTTP stands for?  
**A. Hypertext Transfer Protocol B. Hypertext Transfer Plotter C. Head Tail Transfer Plot D. Head Tail Transfer Protocol E. Hypertext Transmission Process**
16. In computers, what is the smallest and basic unit of information storage?  
**A. Bit B. Byte C. Newton D. Mega byte E. Kilo byte**
17. What is Windows XP?  
**A. Operating System B. Storage Device C. Processor D. Output Device E. Input Device**
18. Which of the following is responsible for the management and coordination of activities and the sharing of the resources of the computer?  
**A. Application Software B. Motherboard C. Operating System D. RAM E. System Software**
19. MP3 file format is associated with what type of files?  
**A. Video B. Audio C. Image D. Word Document E. Flash file**
20. MS-Word is an example of  
**A. Application Software B. System Software C. Operating System D. Scanner E. ALU**
21. Which software application is used for accessing sites or information on a network (as the World Wide Web)?  
**A. Operating System B. Web Browser C. Microsoft Word D. Microsoft Excel E. FileZilla**
22. What are the two broad categories of software?  
**A. MS Word and Spreadsheet B. Transaction and Application C. Microsoft and Mac OS D. System and Application E. Transaction and System**

23. One kilobyte contains how many bytes?  
**A. 1000 B. 1001 C. 100 D. 1024 E. 10**
24. Who Owns the Internet?  
**A. Internet Engineering Task Force B. ICANN C. Internet Architecture Board D. No one owns it E. InterNIC**
25. What is the shortcut key of printing a document for computer having windows?  
**A. Ctrl + P B. Shift + P C. Alt + P D. Shift + PP E. Fn + P**
26. In computers, '.TMP' extension refers usually to what kind of file?  
**A. Temporary file B. Image file C. Video file D. Text file E. Database file**
27. The way of manipulating data into information is called  
**A. Storing B. Processing C. Deletion D. Organizing E. Transmission**
28. What Does BIOS Stand For?  
**A. Better Integrated Operating System B. Basic Input Output System C. Battery Integrated Operating Setup D. Backup Input Output System E. Battery Input Operating System**
29. Memory management is a feature of  
**A. Processor B. Operating System C. MS Word D. Animation E. UPS**
30. Which of the following is not a storage device?  
**A. DVD B. Hard Disk C. Floppy Disk D. Mouse E. Flash Drive**



**ANSWERS**

**ENGLISH**

1. A
2. D
3. D
4. A
5. D
6. C
7. C
8. D
9. B
10. D
11. C
12. C
13. C
14. A
15. D
16. C
17. A
18. D
19. B
20. C
21. B
22. D
23. C
24. A
25. C
26. D
27. D
28. B
29. C
30. D
31. D
32. D
33. D
34. D
35. B
36. C
37. A
38. B
39. D
40. D
41. B
42. D
43. C
44. C
45. D
46. D
47. A
48. A
49. C
50. A
51. C
52. B

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- 53. B
- 54. C
- 55. D
- 56. D
- 57. B
- 58. B
- 59. C
- 60. A
- 61. C
- 62. B
- 63. C
- 64. A
- 65. D
- 66. C
- 67. B
- 68. C
- 69. A
- 70. D
- 71. B
- 72. B
- 73. D
- 74. B
- 75. C

**MATHEMATICS**

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

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26. C
27. E
28. C
29. D
30. C
31. A
32. B
33. B
34. D
35. B
36. A
37. C
38. D
39. C
40. A
41. B
42. C
43. D
44. C
45. B
46. D
47. C
48. A
49. B
50. D
51. A
52. B
53. C
54. B
55. C
56. B
57. C
58. D
59. D
60. B
61. B
62. C
63. D
64. C
65. B
66. C
67. C
68. A
69. D
70. B

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**BIOLOGY**

1. C
2. D
3. D
4. A
5. A
6. B
7. C
8. B
9. A
10. B
11. D
12. C
13. D
14. D
15. C
16. D
17. D
18. D
19. A
20. D
21. C
22. D
23. B
24. A
25. C
26. C
27. B
28. B
29. B
30. A
31. A
32. B
33. C
34. D
35. B
36. D
37. D
38. C
39. B
40. C
41. D
42. C
43. B
44. A
45. C
46. C
47. C
48. B
49. B
50. C
51. C

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- 52. A
- 53. D
- 54. A
- 55. D
- 56. A
- 57. A
- 58. D
- 59. B
- 60. D
- 61. B
- 62. D
- 63. B
- 64. A
- 65. D
- 66. A
- 67. C
- 68. A
- 69. D
- 70. B

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**CHEMISTRY**

1. C
2. C
3. D
4. C
5. B
6. B
7. C
8. A
9. D
10. A
11. D
12. C
13. C
14. B
15. D
16. A
17. B
18. C
19. C
  
20. A
21. E
22. C
23. A
24. D
25. B
26. A
27. D
28. A
29. C
30. B
31. E
32. C
  
33. A
34. D
35. B
36. C
37. D
38. B
39. A
40. D
41. C
42. C
43. C
44. C
45. B
46. A
47. D
48. C
49. D

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- 50. A
- 51. C
- 52. B
- 53. C
- 54. A
- 55. B
- 56. C
- 57. A
- 58. B
- 59. C
- 60. D
- 61. D
- 62. C
- 63. B
- 64. D
- 65. D
- 66. C
- 67. B
- 68. C
- 69. B
- 70. C

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**PHYSICS**

1. D
2. C
3. D
4. A
5. B
6. D
7. D
8. A
9. C
10. B
11. B
12. A
13. D
14. B
15. A
16. A
17. D
18. D
19. D
20. C
21. B
22. A
23. B
24. B
25. C
26. B
27. A
28. D
29. B
30. B
31. C
32. C
33. B
34. B
35. A
36. C
37. D
38. A
39. B
40. C
41. C
42. C
43. C
44. C
45. D
46. B
47. C
48. D
49. D

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- 50. A
- 51. C
- 52. B
- 53. A
- 54. D
  
- 55. C
- 56. B
- 57. B
- 58. A
- 59. D
- 60. B
- 61. D
- 62. C
- 63. B
- 64. B
- 65. B
- 66. D
- 67. A
- 68. D
- 69. C
- 70. C

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**COMPUTER**

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

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## ENGLISH LANGUAGE

Choose the expression or word which **BEST COMPLETES** each sentence

1. I am intent \_\_\_\_\_ continuing my course  
A. on      B. with      C. as      D. to      E. at
2. \_\_\_\_\_ equations use letters to stand for numbers  
A. Simultaneous      B. Simultaneous  
C. Simultaneous      D. Simultaneous

From the options A to D, choose the expression that is **OPPOSITE IN MEANING** to the underlined word(s).

3. Elemi's sagacity contrasted sharply with his friend's \_\_\_\_\_  
A. Timidity      B. Wisdom      C. Fluency      D. Foolishness
4. Some people keep ferocious animals as pets.  
A. Gentle      B. Wild      C. Fierce      D. Domestic

From the options listed A – D select the word that best **CAPTURES THE MEANING** of the italicized part of the sentences

5. Every visitor to Calabar must visit *where photographs and artifacts of early European colonial presence in Nigeria are kept*  
A. Archives      B. Ranch      C. Market      D. museum

From the options A to D, choose the expression that is **NEAREST IN MEANING** to the underlined word

6. Ebire's generosity turned out to be her Achilles' heel  
A. Strong point      B. Favourite habit      C. Weak point      D. Less popular virtue

Choose the expression or word which **BEST COMPLETES** each sentence

7. The giant hydro-electric project is among the \_\_\_\_\_ of colonial rule in Southern Africa  
A. Inheritance      B. Remnants      C. Legacies      D. Evidence
8. Ukpabio is proficient \_\_\_\_\_ tailoring  
A. With      B. In      C. Of      D. At

Choose the word or phrase that is **OPPOSITE IN MEANING** to the underlined

9. The demonstration was organized by hoodlums  
A. Criminals      B. Activists      C. Thugs      D. Soldiers
10. The plaintiff convinced the court that the murder was inadvertent  
A. Brutal      B. Wicked      C. Careless      D. Premeditated
11. The bush burning festival will further renew our forest resource  
A. Increase      B. Reduce      C. Deplete      D. Remove

Choose from the options lettered A – E the one that has the correct stress with the word given. In each word only the stressed part is in CAPITAL

12. Planetarium  
A. PLAN-e-tar-i-um      B. plan-E-tar-i-um      C. plan-e-TAR-i-um      D. plan-e-tar-I-um

Choose from the options the word which has **THE SAME SOUND** as the underlined

13. COURTESY      A. our      B. Court      C. Shirt      D. Tour

From the options listed A – D select the word that best **CAPTURES THE MEANING** of the italicized part of the sentences.

14. Lecturers assisted Prof. Atahiru Jega when *Nigerians chose their political leaders*  
A. election      B. nomination      C. appointment      D. selection
15. Mother always *pays attention to details*  
A. frivolous      B. interesting      C. rigid      D. meticulous

Choose the option that **BEST EXPLAINS** the information conveyed in the sentences below

16. The rampage in England shows that youths react the same way under provocation  
A. youths in England are very good      B. youths in England are miscreants  
C. youths act the same way when provoked      D. youths provoke people in England

From the options choose the appropriate **STRESS** pattern. The stressed syllables are written in CAPITAL letters.

17. Intimacy  
A. INTimacy      B. inTImacy      C. intiMACy      D. INTImacy

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18. consideration

- A. CONsideration B. consideration C. consiDERation D. considerAtion

From the words lettered A – D choose the word that rhymes with the given word

19. purity

- A. plentiful B. security C. purify D. nonentity

From the words lettered A – D choose the word that rhymes with the given word

20. beautiful

- A. beautify B. beautification C. dutiful D. dignify

Choose from the options lettered A – E the one that has the correct stress with the word given. In each word only the stressed part is in CAPITAL

21. constitutional

- A.con-sti-tu-tion-AL B.con-sti-TU-tion-al C.CON-sti-tu-tion-al D.con-STI-tu-tion-al

22. abnormality

- A.AB-nor-ma-li-ty B.ab-nor-ma-li-TY C.ab-nor-ma-LI-ty D.ab-nor-MA-li-ty

From the options A to D, choose the expression that is NEAREST IN MEANING to the underlined word

23. The use of Latin expressions in English is now dated

- A. well-established B. historical C. old-fashioned D. popular

24. His uncle showed affected interest in his welfare.

- A. pretended B. loving C. genuine D. deep

From the options choose the expression that BEST COMPLETES each sentence

25. I am qualified for the job; ----?

- A. haven't I B. Isn't it C. aren't I D. ain't I

26. My sister along with her colleagues-----the museum today.

- A. are visiting B. have visited C. were visiting D. is visiting

Choose the word that has the SAME SOUND as the one represented by the underlined letter

27. mansion

- A.cheap B.leisure C.peace D.action

28. time

- A.print B.might C.flip D.illegal

From the options choose the expression that BEST COMPLETES each sentence.

29. Every student \_\_\_\_\_ before the principal entered the hall

- A. has arrived B. have arrived C. had arrived D. arrived

30. The workers presented \_\_\_\_\_ to the National Assembly

- A. five pages document B. five-paged document  
C. a five - paged document D. a five - page document

From the options A to D, choose the expression that is NEAREST IN MEANING to the underlined word(s).

31. A dogged student is likely to succeed

- A. Studious B. Clever C. Curious D. Determined

Choose the option that best explains the information conveyed in the sentence below

32. When I visited Okon I only gave him a congratulatory card

- A.the only person I visited was Okon and nobody else  
B. it was only Okon that I gave a congratulatory card  
C.Okon only wanted a congratulatory card  
D.All that I gave Okon when I visited him was a congratulatory card

From the options choose the expression that BEST COMPLETES each sentence

33. The police -----up a list of suspects in the recent bombings.

- A.Has drawnd B. Has drawn C. have drawnd D. Have drawn

Choose the word that has the same sound as the one represented by the underlined letter

34. book

- A.lamb B.flock C.slump D.club

35. key

- Akite B.quay C.kindred D.quarter

Choose the expression or word which best completes each sentence

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36. Since Atim hasn't come till now I am in doubt \_\_\_\_\_ what to do  
 A. to B. with C. about D. of
37. The method \_\_\_\_\_ does not give the expected results  
 A. you recommended B. you visited C. you told me D. you sent me
- From the options listed A – E select the word that best captures the meaning of the italicized part of the sentences**
38. Wolves are *meat eaters*  
 A. herbivores B. carnivores C. animals D. omnivores
39. Miss Suzuki has *published the life stories of three movies stars*  
 A. historian B. autobiographer C. writer D. biographer
40. Most of the birds my grandfather described are *no longer available* in our village forest  
 A. travelled B. migrated C. hibernated D. extinct

Select the word that best captures the meaning of the italicised part of the sentence.

41. The principles of American government are *the direct opposite* of communist doctrine  
 A. apex B. antithesis C. anathema D. ambivalence
42. Superstition has it that certain foods and drinks are *able to increase sexual desire or potency*  
 A. Apocryphal B. Amorous C. Amorphous D. Aphrodisiac
43. Collins had little understanding of the game, and most of his moves were *random, based on caprice rather than reasoning*  
 A. Assiduous B. Astute C. Arbitrary D. Acute
44. Eddy vowed to live a long and happy life, *shun* temptation and *avoid* extremes  
 A. Deny B. Devolve C. Eschew D. Emulate

Choose the expression or word which best completes each sentence.

45. By the end of this year \_\_\_\_\_ in this town for eleven years  
 A. I'm living B. I'd be living C. I have lived D. I'll have lived

Fill in the blank in the following sentences making use of the best of the five options.

46. He was reported \_\_\_\_\_ the policeman  
 A. to be assaulting B. to assault  
 C. assaulting D. to have assaulted
47. He devoted himself \_\_\_\_\_ homeless children  
 A. to helping B. to help C. with helping D. helping
48. My younger brother looked ill last night and evidently \_\_\_\_\_ this morning.  
 A. Worse B. Worst C. More ill D. leaner

After each of the following sentences, a list of possible interpretation of all or part of the sentence is given. Choose the interpretation that you consider most appropriate for each sentence:

49. For us to succeed in this task all hands must be on deck. This means that everybody  
 A. should push with his hands B. will have to place his hands on the deck  
 C. must cooperate D. should take a test to qualify
50. Kate was at home with all the questions asked by the examiner. This means that Kate was:  
 A. Familiar with the questions B. Went home with the questions  
 C. Prepared to go home with the questions D. Conceited about the questions
51. Mike flies off the handle each time there is an argument. This means:  
 A. Mike holds the door handle when he argues B. Mike allows the handle to fly  
 C. Mike easily loses his temper D. Mike can cope with any argument

Complete the following sentences with the right option from the words supplied after each sentence.

52. When the fire broke out in the hostel, students in \_\_\_\_\_ rushed out in all directions.  
 A. Crisis B. Panic C. Haste D. Hurry
53. Astronomers keep a close watch of the night sky in order not to miss the \_\_\_\_\_ appearance of some stars  
 A. Parallel B. Periodic C. Regular D. Constant



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Choose the word or phrase from options A-D which has the nearest meaning to the underlined word or words in each sentence.

54. My mother has refused to come to live in Lagos because she prefers the tranquil life in the village to the hurly burly of the city.

- A. Sweet                      B. Prosperous                      C. Peaceful                      D. Decent

55. A lorry larger than an elephant was struck on the bridge

- A. As large as an elephant                      B. Carrying an elephant.  
C. That looked like an elephant                      D. Of enormous proportions.

Choose the option that best completes the sentence.

56. The dentist found that his patient's teeth \_\_\_\_\_

- A. Have long decayed                      B. Have long been decayed  
C. Have long being decayed                      D. Had long decayed

57. In order to carry out the necessary examination, the dead body was \_\_\_\_\_

- A. Extracted                      B. Exhumed                      C. Extradited                      D. Expelled

58. He went abroad with a view \_\_\_\_\_ a business partner

- A. To fund                      B. To funding                      C. To be funding                      D. To have funded

In question 59, which of the options express the same idea as the one in quote?

59. „To put something aside“ is to

- A. Put it one's side.                      B. Put it in a side pocket for future use.  
C. Keep something for some special purpose.                      D. Keep in safety.

Select the option that best explains the sentence:

60. The painting was beautifully faked

- A. The painting was a good deceptive replica                      B. The painting was well framed and displayed  
C. The painting was deceptively decorated                      D. The painting was carefully hung

From the alternatives provided select the one which best completes the sentence

61. If only I \_\_\_\_\_ insured? But I wasn't. But I have to pay a lot of money

- A. am                      B. have been                      C. had been                      D. was to be

62. Since the petition writer did not include his name, the vice chancellor refused to act on such \_\_\_\_\_ letter

- A. a spontaneous                      B. an anonymous                      C. a scandalous                      D. a cowardly

63. The first graduation ceremony of the university was attended by men from all \_\_\_\_\_ of life

- A. works                      B. areas                      C. walks                      D. walk

Choose the word or phrase from options A – D which has the nearest meaning to the underlined word or words in each sentence

64. He should be able to do it alone

- A. he would be able to do it alone                      B. he ought to be able to do it alone  
C. he has to be able to do it alone                      D. he will do it alone

65. The old man was said to have died intestate

- A. without an estate                      B. in his estate  
C. without a will                      D. in good state

From the alternatives provided select the one which best completes the sentence

66. If only I \_\_\_\_\_ insured? But I wasn't. But I have to pay a lot of money

- A. am                      B. have been                      C. had been                      D. was to be

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Choose the word or phrase from options A – D which has the nearest meaning to the underlined word or words in each sentence

69. He should be able to do it alone

A. he would be able to do it alone

B. he ought to be able to do it alone

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D. he will do it alone

70. The old man was said to have died intestate

A. without an estate

B. in his estate

C. without a will

D. in good state

In each of the following questions, the word in capital letter has the emphatic stress. Choose the option that best fits the expression in the sentence.

71. The man BOUGHT the newspaper

A. Is this the newspaper which the man bought?

B. Did the man read the newspaper?

C. Who bought the newspaper?

D. What did the man buy?

72. The chief RAN to the place

A. Where did the chief run to?

B. Did the chief walk to the place?

C. Did the princess run to the place

D. Who ran to the place?

From the options lettered A – D choose the word opposite in meaning to the underlined words in the following sentences

73. Ebere's \_\_\_\_\_ contrasts with his brother's indolence

A. indulgence

B. laziness

C. labour

D. diligence

74. The discussion ended on an amicable note even though there was grave \_\_\_\_\_ at the beginning

A. hostility

B. incompatibility

C. irresponsibility

D. camaraderie

Select the word that best captures the meaning of the italicized part of the sentence

75. Some politicians in the area were said to be engaged in *double dealing*

A. eschewing

B. effiteness

C. duplicity

D. dubiousness

## ECONOMICS

1. Land is a most significant factor in terms of contribution to the economy because
  - A. it enables us to build industries
  - B. we build houses on it
  - C. all our highways are constructed on it
  - D. vital resources from it enrich the economy.
2. All of the following are assets of a commercial bank except
  - A. cash
  - B. bills discounted
  - C. bank deposits
  - D. advances to customers
3. The Quantity Theory of Money states that an increase in the quantity of money would bring about
  - A. a geometrical rise in prices
  - B. an unequal rise in prices
  - C. a proportionate rise in prices
  - D. an absolute rise in prices
4. Under the socialist economy, the decision on what to produce is determined by the
  - A. producers
  - B. level of expected profit
  - C. price
  - D. government
5. Terms of trade simply means the price
  - A. ratio of import to export
  - B. ratio of export multiplied by import
  - C. ratio of export to import
  - D. ratio of export multiplied by price ratio of import
6. In perfect competition, the marginal cost curve intersects the average cost curve
  - A. from below at its lowest point
  - B. from above at its lowest point
  - C. from below before the lowest point
  - D. at the zero point
7. International trade takes place because of differences in
  - A. production cost
  - B. language
  - C. government
  - D. currency
8. One major aim of a cartel is
  - A. Increase production
  - B. Regulate output through quota system
  - C. Have a joint account
  - D. Share profits equally
9. Which of the following does not hinder the efficient distribution of goods in West Africa?
  - A. Inadequate transportation network
  - B. Inadequate storage facilities for agricultural goods
  - C. Inadequate credit facilities for potential distributors
  - D. government participation in the distributive trade
10. Which of the following is not a negative effect of inflation?
  - A. lenders earn less
  - B. pensioners and salary earners on fixed incomes suffer
  - C. exports tend to decline
  - D. savings are discouraged
11. Devaluation means
  - A. a reduction in the value of the national currency
  - B. a reduction in the purchasing power of foreign currencies
  - C. a reduction in the value of domestic currency relative to foreign currencies
  - D. an increase in the value of the national currency
12. Which of the following is not an advantage of price control?
  - A. control of inflation
  - B. distortion of price mechanism
  - C. prevention of exploitation
  - D. control of producer's profit
13. Cement industry is located in Cross River because the state
  - A. imports raw materials.
  - B. has large deposit of limestone.
  - C. the soil is unsuitable for other products
  - D. land is suitable for cement production.
14. Which of the following is not a type of mobility of labour
  - A. Occupational mobility of labour
  - B. Industrial mobility of labour
  - C. Geographical mobility of labour
  - D. Crisis mobility of labour
15. A common natural response of people to the problem of uneven distribution of resources in a place is
  - A. hoarding
  - B. shifting cultivation
  - C. family planning
  - D. migration
16. Subsistence agriculture means
  - A. cultivation for external use
  - B. cultivation for local industries
  - C. farming for the urban dwellers
  - D. cultivation for household consumption

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17. The natural growth rate of a population is the
  - A. death rate plus net immigration
  - B. rate of migration divided by birth rate
  - C. birth rate minus death rate
  - D. sum of birth rate and net immigration rate
18. Who bears the greater burden of the indirect tax when the demand for a commodity is inelastic? The
  - A. wholesaler
  - B. shareholder
  - C. retailer
  - D. consumer
19. Which of these is NOT a feature of under development?
  - A. low per capita income.
  - B. vicious circle of poverty.
  - C. low level of industrialization
  - D. high per capita income.
20. The economic system which relies mainly on the price mechanism for the allocation of scarce resources is known as
  - A. Capitalist economic system
  - B. Command economic system
  - C. Combined economic system
  - D. Traditional economic system
21. The theory of consumer behaviour is based on all the following assumptions except that the
  - A. consumer is assumed irrational
  - B. consumer taste remains constant
  - C. consumer has budget constraint
  - D. consumer aims at maximizing his utility
22. During the consolidation exercise most banks in Nigeria got the required capital through
  - A. mergers only
  - B. mergers and acquisition
  - C. acquisition only.
  - D. getting money from people
23. Economics can best be defined as the study of
  - A. how to spend the family income efficiently
  - B. how to find minimum cost of production
  - C. the interpretation of scarce resources and date
  - D. how scarce resources can be used efficiently
24. Which of the following is specialized in lending money for the purpose of developing real estate?
  - A. Commercial banks
  - B. Central bank
  - C. Mortgage banks
  - D. Merchant banks.
25. Factors of production can be described as the
  - A. resources required for the provision of goods and services
  - B. skills involved in deciding and directing the flow of goods
  - C. monetary tools employed by government to ensure stable production
  - D. elements involved in the process of formulating policies on production
26. The systemic record of the various levels and types of economic activities is called.
  - A. Gross national product
  - B. National income accounting
  - C. The budget
  - D. Census.
27. When the rate of inflation increases
  - A. Savings will increase
  - B. Income will increase
  - C. Savings will decrease
  - D. Prices will decrease
28. The tax imposed on goods manufactured within a country is called
  - A. Value added tax
  - B. Capital gains tax
  - C. Excise tax
  - D. Profit tax
29. One of the criticisms against delegated legislation is that it
  - A. gives too much power to all organs of government
  - B. enhances separation of powers
  - C. encroaches on parliamentary power
  - D. is not practised in advanced countries
30. Devaluation of the country's currency is as a result of
  - A. Forces of demand and supply
  - B. Official policies of local economy
  - C. The economic meltdown
  - D. Foreign policies
31. The economic system which relies mainly on the price mechanism for the allocation of scarce resources is known as
  - A. Capitalist economic system
  - B. Command economic system
  - C. Combined economic system
  - D. Traditional economic system
32. A shift in supply is caused by the following factors except
  - A. The price of the goods
  - B. The cost of resources
  - C. The number of buyers
  - D. The technique of production
33. When firms are privatized
  - A. They are transferred to individuals
  - B. They are made more profitable.

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- C. They are owned by the government but managed by individuals  
D. Their products are sold to the public.
34. Any type of restricted franchise is a violation of the principle of  
A. constitutionalism      B. sovereignty      C. political equality      D. popular election
35. When the demand for a commodity is inelastic, who bears the greater burden of the indirect tax?  
A. The producer      B. The government      C. The retailer      D. The consumer
36. The indicator of the value of money in the market is  
A. the general price level      B. effective supply  
C. the equilibrium price      D. effective demand
37. Which of the following is not characteristic of a perfect competition?  
A. Many sellers and buyers are in the market  
B. there is perfect knowledge of the market situation  
C. supply and demand are equal  
D. there is no discrimination
38. The price of a commodity is determined by the  
A. supplier      B. consumer  
C. quantity of goods demanded      D. interaction of demand and supply
39. In which of the following economic systems is the consumer referred to as „The King“?  
A. Planned economy      B. Mixed economy  
C. Traditional economy      D. Free Market economy
40. As interest rate increases  
A. investment declines      B. it is not certain what happens to investment  
C. investment increases      D. investment remains constant
41. Economic planning in Nigeria faces all these problems except:  
A. Shortage of land      B. Shortage of capital  
C. Lack of skilled manpower      D. Political instability
42. The natural growth rate of population is the  
A. sum of the birth rate and the death rate      B. sum of the birth rate and the net migration rate  
C. birth rate minus the death rate      D. death rate minus the net migration
43. Which of the following is not correct?  
A. Population refers to the number of people living in a place  
B. The population of a place is not static  
C. Population is known through a census  
D. Population is affected by the amount of money in circulation
44. Which of the following is not characteristic of a perfect competition?  
A. Many sellers and buyers are in the market  
B. there is perfect knowledge of the market situation  
C. supply and demand are equal  
D. there is no discrimination
45. If the price elasticity of demand for a good is greater than one, then its demand will be  
A. Inelastic      B. infinitely elastic      C. infinitely inelastic      D. relatively elastic
46. In any economic system, which of the following is not an economic problem?  
A. What goods and services to produce      B. For whom to produce goods or services  
C. What techniques of production to be adopted      D. Equal distribution of the goods and services
47. Which of the following are not agents of distribution?  
A. Wholesalers      B. Retailers  
C. Consumers      D. Government agencies
48. Which of the following is not an advantage of division of labour? It  
A. saves time      B. makes possible the use of machines  
C. is monotonous      D. leads to specialization
49. An inflation in which the price level rises steadily at an average rate of about 2% per annum is best described as  
A. galloping      B. induced  
C. creeping      D. suppressed
50. The greatest disadvantage of the barter system is the need for  
A. durability      B. divisibility      C. homogeneity      D. double coincidence of wants

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51. The type of demand that exists between bicycle and fuel is  
A. Competitive demand B. Complementary demand  
C. Composite demand D. Independent demand.
52. Which of these are true of a perfect competition?  
A.  $P=AR < MR$  B.  $P > AR=MR$  C.  $P=MR < AR$  D.  $P=AR=MR$
53. Which of the following factors is not important in deciding the location of an industry?  
A. The native language of the people B. Availability of suitable labour  
C. Sources of cheap power and raw materials D. Proximity to the location of a similar industry
54. The theory of consumer behaviour is based on all the following assumptions except that the  
A. consumer is assumed irrational B. consumer taste remains constant  
C. consumer has budget constraint D. consumer aims at maximizing his utility
55. Which of the following items is NOT included in measuring national income by the income approach?  
A. wages and salaries B. student's grants and scholarships  
C. profits of companies D. income earned by self-employed persons
56. Which of the following is not a negative effect of inflation?  
A. lenders earn less B. pensioners and salary earners on fixed incomes suffer  
C. exports tend to decline D. borrowers tend to gain.
57. When a nation is experiencing balance of payment surplus, it is in a better position to  
A. increase her foreign exchange reserves B. increase her liabilities to foreigners  
C. reduce her foreign exchange reserves D. devalue her national currency
58. The necessity for the study of economics arises due to  
A. Need to satisfy every desire of man B. Scarcity of resources  
C. Large population size of the world D. Opportunity cost of goods and services
59. The bank of industry is  
A. a commercial bank B. a development bank  
C. an industrial bank D. a merchant bank
60. Scarcity in Economics mean that resources  
A. are not enough to share among the producers of goods and services  
B. needed to satisfy human wants are limited  
C. are never enough to share among consumers of goods and services  
D. required to meet our essential wants are unlimited



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**GOVERNMENT**

1. Who propounded the theory of the rule of law?  
**A.** A.V. Dicey      **B.** Karl Max      **C.** Baron de Montesquieu      **D.** Abraham Lincoln
2. The constitution that introduced federalism to Nigeria was \_\_\_\_\_  
**A.** The McPherson Constitution      **B.** The Clifford Constitution  
**C.** The Lyttleton Constitution      **D.** The Richards Constitution
3. Which of the following is not a pressure group      **A.** P.D.P      **B.** A.S.U.U      **C.** N.A.S.U  
**D.** N.L.C
4. Which of these is an organ of The United Nations organization?  
**A.** The council of ministers      **B.** The senate of the U.N  
**C.** House of Lords      **D.** The general assembly
5. A body charged with the responsibility of employing, promoting dismissing and disciplining of civil servants is  
**A.** The Nigerian police      **B.** The Senate  
**C.** The Judiciary      **D.** The public service
6. The rule of law entails  
**A.** there is no man without law      **B.** the law is everywhere  
**C.** impartiality before the law      **D.** the law exist before man
7. A type of election in which an important political matter or a proposed law is referred to the electorate for final approval is  
**A.** Primary elections      **B.** Run-off election      **C.** General election      **D.** Referendum
8. Laws made by the Federal Government are called  
**A.** Executive laws      **B.** Central laws      **C.** Bye-laws      **D.** Concurrent laws
9. The name, Nigeria, was suggested by \_\_\_\_\_  
**A.** Sir Frederick Lugard      **B.** Nnamdi Azikiwe      **C.** Flora Shaw      **D.** Bishop Ajayi Crowther
10. In 1919, Lord Lugard was replaced with \_\_\_\_\_ as the Governor of Nigeria  
**A.** Sir Arthur Richards      **B.** Lord Milverton Thatcher      **C.** Sir John Macpherson  
**D.** Sir Hugh Clifford
11. The ability of a state to make laws which are free from internal aggression and external control is known as  
**A.** independence      **B.** power      **C.** authority      **D.** sovereignty
12. Organization of petroleum exporting countries (OPEC) was founded in  
**A.** 1955      **B.** 1960      **C.** 1979      **D.** 1977
13. The admistrator of the capital in pre-colonial Hausa/Fulani was  
**A.** Maagi      **B.** Galadima      **C.** Madawaki      **D.** Sarkin Yan Doka
14. Which is the highest office in the structure of organization of the civil service?  
**A.** The executive class      **B.** The professional or specialist class      **C.** The Administrative class  
**D.** The Technical class
15. The ombudsman originated in which of the following countries  
**A.** The U.S.A      **B.** Sweden      **C.** Britain      **D.** Greece
16. The theory of separation of powers was for the first time clearly formulated by  
**A.** Baron de Montesquieu      **B.** Albert Dicey      **C.** Lord Bryce      **D.** Jean Bodin
17. One major disadvantages of a two-party is that is  
**A.** does not allow citizens to participate in politics      **B.** divides the country into factions  
**C.** creates two countries      **D.** stifles public opinion
18. The Aba riots of 1929 was a direct consequence of the  
**A.** attempt to introduce taxation      **B.** introduction of Western education  
**C.** Yoruba political organization      **D.** pre-colonial Bini System
19. Fascism emphasizes  
**A.** equality      **B.** individualism  
**C.** nationalism      **D.** totalitarianism
20. When a high court declares an action of the executive ultra-vires, it means that  
**A.** the executive has to reconsider the action  
**B.** such an action should never be brought up again



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- C. only the legislature can deal with such an action  
D. the action is illegal and of no effect
21. The two parties which formed the coalition government in 1959 were the  
A. NPC and the NCNC  
B. NCNC and AG  
C. NPC and the NNA  
D. PRP and UPGA
22. Dis-enfranchisement refers to the  
A. qualification of voters in an election  
B. disqualification of fraudulent presidential aspirants  
C. denial of the right to vote in an election  
D. right to vote in all elections
23. The objective of the 1841 Niger expedition included the following except  
A. The abolition of the slave trade  
B. Establishment of legitimate commerce  
C. Establishment of friendly relationship with Africans  
D. Acquire greater knowledge of the interior of Africa.
24. The system of indirect rule failed in the former Eastern Nigeria primarily because  
A. of the fragmented political structures  
B. the chiefs refused to co-operate with the colonial officials  
C. of high taxation  
D. of forced labour
25. The headquarters of OAU is in  
A. Togo  
B. Senegal  
C. Addis Ababa  
D. Nigeria
26. The emergency powers conferred on the Federal Government under the independence constitution was first exercised in the  
A. Western region  
B. Mid-Western region  
C. Eastern Region  
D. Northern region  
E. Federal Territory Lagos
27. The international organization formed after the Second World War to guarantee international peace and security is called  
A. The European Common Market  
B. The British Common Wealth of Nations  
C. The League of Nations  
D. The United Nations Organization
28. Nigeria changed to the right hand driving in  
A. 1970  
B. 1973  
C. 1975  
D. 1977
29. Mary Slessor was popular for her  
A. Involvement in the abolition of slave trade  
B. Intervention in the killing of twins  
C. Cordial relationship with the Efik people  
D. Soliciting for peace among the indigenes.
30. The following are key factors which influence Nigeria's foreign relations except  
A. peaceful co-existence  
B. economic dependence  
C. non-interference  
D. respect for territorial integrity
31. The second military coup d'état in Nigeria took place on  
A. July 29, 1966  
B. July 29, 1975  
C. February 13, 1976  
D. October 1, 1966
32. The mechanism used to limit a parliamentary debate is known as  
A. guillotine  
B. prerogative  
C. abrogation  
D. adjournment
33. Some pre-colonial West African governments were democratic because of the existence of  
A. powerful traditional rulers  
B. age grade  
C. religious institutions  
D. checks and balances
34. The head of the executive branch in a parliamentary system is called  
A. Senate President  
B. Prime Minister  
C. President  
D. Governor-General
35. Under what constitution did the Supreme Court become the highest Court of Appeal in Nigeria?  
A. Lyttleton Constitution  
B. Republican constitution  
C. McPherson constitution  
D. Independence constitution
36. The Economic Community of West African States (ECOWAS) is  
A. An economic association  
B. A political association  
C. Cultural association  
D. A social association
37. Government as an act of governing means  
A. Activities of pressure groups and political parties  
B. Act of vetoing a bill  
C. Orders of judiciary and legislature  
D. Activities by which government policies are made and implemented

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38. The major advantage of the secret ballot is that
  - A. it is faster than other systems
  - B. nobody can be prevented from voting
  - C. it ensures the anonymity of each voter
  - D. it extends franchise to all adults
39. The process of depriving persons of the right of voting is known as
  - A. Disenfranchisement
  - B. Disqualification
  - C. Prohibition
  - D. Dismissal
40. The question of civil war was raised for the first time at the meeting of the OAU in September 1967 in
  - A. Kampala
  - B. Addis Ababa
  - C. Nairobi
  - D. Kinshasa
41. Military governors were members of the supreme military council under
  - A. Murtala Mohammed regime
  - B. Yakubu Gowon
  - C. Ibrahim Babangida regime
  - D. Muammaru Buhari regime
42. Residual powers under the Nigerian independence constitution were the powers exercised by
  - A. the Federal government
  - B. the Regional government
  - C. the Local government
  - D. both the Federal and Regional governments
43. It is the duty of a government to perform all the following functions except
  - A. Providing all the needs of its citizens
  - B. Preventing internal disorder
  - C. Providing basic welfare services
  - D. Promoting industrial and commercial development
44. The following factors favoured the introduction of indirect rule in Nigeria except the
  - A. shortage of manpower
  - B. shortage of funds
  - C. existence of education elites
  - D. existence of a system of taxation
45. It is argued that most of the new states of Africa cannot remain faithful to the doctrines of non-alignment mainly because of
  - A. corruption
  - B. ethnic problems
  - C. bad leadership
  - D. poor economy
46. The delegation of Administrative Powers to the local units with the central supervision and control is called
  - A. devolution
  - B. decentralization
  - C. deconcentration
  - D. centralization
  - E. concentration
47. Which of the following is not an accepted way of resolving international conflict
  - A. Diplomacy
  - B. Propaganda
  - C. Non-military use of force
  - D. Military Force (war)
  - E. Nuclear War
48. A unified- local government system was adopted in Nigeria under the
  - A. Tafawa Balewa administration
  - B. Yakubu Gowon administration
  - C. Shehu Shagari administration
  - D. Murtala/Obasanjo administration
  - E. Muhammadu Buhari administration
49. One of the criticisms against delegated legislation is that it
  - A. gives too much power to all organs of government
  - B. enhances separation of powers
  - C. encroaches on parliamentary power
  - D. is not practised in advanced countries
50. Which of the following is not an objective in foreign policy?
  - A. prestige
  - B. large population
  - C. territorial integrity
  - D. survival
51. Voting started in Nigeria in 1923 because the Clifford constitution of 1922 granted
  - A. decolonization
  - B. parliamentary government
  - C. an elective principle
  - D. Self government
52. Which of the following is not a component of political culture
  - A. Attitudes
  - B. Beliefs
  - C. Emotions
  - D. Age
53. With which country did Nigeria break diplomatic relations in 1963 for exploding a nuclear device in the Sahara?
  - A. The USA
  - B. China
  - C. Soviet Union
  - D. France
54. Which of the following did not formally recognize "Biafra" as an independent state?
  - A. Zambia
  - B. Tanzania
  - C. Gabon
  - D. Ivory Coast
55. The Armed forces Ruling Council came into existence under the
  - A. Buhari Administration
  - B. Babangida Administration
  - C. Gowon Administration
  - D. Obasanjo Administration
56. Residual powers under the Nigerian independence constitution were the powers exercised by
  - A. the Federal government
  - B. the Regional government
  - C. the Local government
  - D. both the Federal and Regional governments

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57. It is the duty of a government to perform all the following functions except  
A. Providing all the needs of its citizens      B. Preventing internal disorder  
C. Providing basic welfare services      D. Promoting industrial and commercial development
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**GEOGRAPHY**

1. Groundnut pyramid is associated with the region around  
**A. Damaturu      B. Maiduguri      C. Sokoto      D. Kano**
2. An irrigation system which involves major engineering works and dams to supply water to farms throughout the year is known as  
**A. animal irrigation      B. perennial irrigation  
C. well irrigation      D. tank irrigation**
3. Which of these features is not produced by the action of rain?  
**A. gullies      B. ravine      C. earth pillars      D. soil creep**
4. The hydrological cycle explains  
**A. how man uses water      B. what happens to rain water  
C. that some rain water percolates      D. that some rain water runs off the surface**
5. Which of the following is not associated with the process of chemical weathering:  
**A. oxidation      B. hydration      C. solution      D. percolation**
6. Check the correct answer in the following:  
The capital of Jigawa state in Nigeria is  
**A. Jigawa      B. Lokoja      C. Dutse      D. Jalingo**
7. Which of the following mineral oil products is not used for power consumption?  
**A. bitumen      B. natural gas      C. gasoline      D. kerosene**
8. Check the wrong statement in the following:  
The rotation of the earth on its axis results in:  
**A. Day and night      B. Time difference of 4 minutes for one degree of longitude  
C. Storms      D. deflection of the planetary wind system**
9. Which of the following instruments is not found in a weather station?  
**A. thermometer      B. anemometer      C. barometer      D. scanner**
10. Which of the following countries is not a major producer of cocoa?  
**A. Ghana      B. Nigeria      C. Ivory Coast      D. Angola**
11. Which of these is not true?  
Evidences that the earth is spherical are:  
**A. different places on the earth's surface see the sun at different times  
B. it is possible to circumnavigate the earth  
C. the shadow cast on the moon by the earth during an eclipse is round  
D. the earth is a globe**
12. Which of the following is not a measure of environmental control?  
**A. preservation      B. Stabilization  
C. Degradation      D. A forestation**
13. Water pollution is caused by all the following except  
**A. increased silt load      B. sand filling  
C. sewage disposal      D. industrial effluent**
14. Which of the following environmental hazards has been paired with the wrong factor?  
**A. coastal erosion and wave action      B. drought and climate  
C. floods and human factor only      D. deforestation and human factor only**
15. the active human population is determined by it's  
**A. racial combination      B. male-female ratio  
C. age distribution      D. height difference**
16. The predominant system of agriculture among rural farmers in Nigeria is  
**A. terrace farming      B. irrigation farming  
C. plantation agriculture      D. bush fallowing**
17. Glaciations produces  
**A. hanging valleys      B. zeugens      C. yardange      D. blow holes**
18. The most suitable statistical diagram to show spatial distribution of population is  
**A. Dot map      B. Pie Chart      C. Divided circle      D. Line graph**
19. Which savanna vegetation is characterized by grasses of about one metre high and scattered trees with flattish canopy?  
**A. guinea      B. sudan  
C. sahel      D. derived**

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20. Another name for wet and dry bulb thermometer is the
  - A. Hydrometer
  - B. Anemometer
  - C. Anemometer
  - D. Hygrometer
21. Which of the following is a major environmental problem in heavily industrialized regions?
  - A. water pollution
  - B. accelerated erosion
  - C. frost damage
  - D. acid rain
22. The time difference between a place on longitude 35°W and another longitude 25°E is
  - A. 2 hours
  - B. 3 hours
  - C. 5 hours
  - D. 4 hours
23. The olive tree is probably the most typical of all cultivated vegetation in
  - A. Tropical desert
  - B. Sudan climate
  - C. Mediterranean climate
  - D. Tropical monsoon climate
24. Stars occur in clusters known as
  - A. satellites
  - B. nebulas
  - C. meteorites
  - D. asteroids
25. High temperatures and heavy rainfall throughout the year describe the climate of
  - A. Uganda, Ethiopia and Tanzania
  - B. Ghana, Nigeria and Sierra Leone
  - C. Brazil, Egypt and Zambia
  - D. Britain, North and South Korea and Namibia
26. The movement of a group of people from a village to an irrigation project area may be described as
  - A. rural-urban migration
  - B. urban-urban migration
  - C. rural-rural migration
  - D. urban-rural migration
27. Which of the following factors best explains the generally low insolation in the high latitudes
  - A. continentality
  - B. longitudinal position
  - C. angle of inclination
  - D. altitude
28. The basic raw materials for the textile industry include
  - A. wool, cotton, jute and rubber
  - B. wool, flax, pulp and papyrus
  - C. wool, flax, silk and cotton
  - D. wool, cotton, pulp and papyrus
29. Which of the following refers to the fountains of hot water and super heated steam that may spout up to a great height of 45 meters from the earth beneath
  - A. tsunamis
  - B. blow-outs
  - C. volcanoes
  - D. geysers
30. Hydrolysis and oxidation are processes of
  - A. mechanical weathering
  - B. biological weathering
  - C. chemical weathering
  - D. mass wasting
31. Which of the following may not solve the problem of over population?
  - A. increase in food production
  - B. birth control
  - C. increase in the area extent of towns
  - D. reduction of agricultural land
32. All the following are characteristics of a limestone region except
  - A. stony and broken surface
  - B. rugged topography
  - C. adequate luxuriant vegetation cover
  - D. absence of surface drainage
33. The rapid exhaustion of non-renewable natural resources may least be aided by one of the following which is it?
  - A. increased urbanization
  - B. reckless exploitation
  - C. inadequate technology
  - D. natural disaster
34. Which of the following statements best describes the relationship between rural and urban centres?
  - A. cities are not important as rural areas
  - B. rural areas are more productive than cities
  - C. cities can exist without the rural areas
  - D. cities and rural areas depend on each other
35. The most critical element in an ecosystem is the
  - A. growth per day
  - B. energy flow within the system
  - C. number of species in the system
  - D. extent of area covered by the system
36. The level of details and the definition of distances between objects on a map is based upon
  - A. compass
  - B. longitude
  - C. latitude
  - D. scale
37. Arctic and Antarctic circles are imaginary lines that surround the north and south poles at
  - A. 90 degrees latitude
  - B. 66<sup>1/2</sup> degrees latitude
  - C. 23<sup>1/2</sup> degrees latitude
  - D. 45 degrees latitude
38. The largest indigenous city in Tropical Africa is
  - A. Cotonu
  - B. Nairobi
  - C. Kampala
  - D. Ibadan

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39. Which of the following farming systems is likely to give rise to nucleated rural settlements?  
**A.** large-scale farming **B.** Irrigation farming  
**C.** subsistence farming **D.** grazing

**MATHEMATICS**

1. Find the average of the first four prime numbers greater than 10  
**A.** 20 **B.** 19 **C.** 17 **D.** 15  
 2. Given that  $P \propto \frac{1}{\sqrt{r}}$  and  $p = 3$  when  $r = 16$ , find the value of  $r$  when  $p = \frac{3}{2}$   
**A.** 48 **B.** 64 **C.** 72 **D.** 324  
 3.  $4 \times 10^{-5} =$   
**A.** - 40,000 **B.** - 200 **C.** 0.0004 **D.** 0.00004  
 4. Which of the following equations corresponds the data in the table?

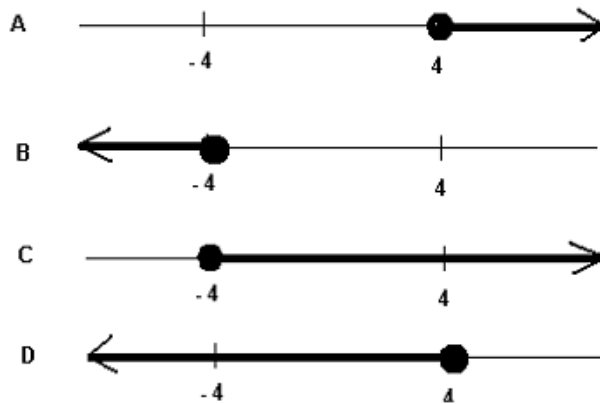
x	y
-20	-1/8
-10	-1/3
0	1/2
5	2/9
20	1/12

- A.**  $y = 1 / (x + 2)$  **B.**  $y = 2 / (x + 4)$   
**C.**  $y = (x - 1) / (x + 2)$  **D.**  $y = 2 / (x - 2)$   
 5. The quadratic equation whose roots are at  $x = 3$  and  $x = 5$  is given by  
**A.**  $(x - 3)(x - 5) = 1$  **B.**  $(x + 3)(x + 5) - 9 = (x + 3)(x + 5) - 25$   
**C.**  $(x + 3)(x + 5) = 0$  **D.**  $x^2 - 8x = -15$   
 6. There are 15 balls in a box: 8 balls are green, 4 are blue and 3 are white. Then 1 green and 1 blue balls are taken from the box and put away. What is the probability that a blue ball is selected at random from the box?  
**A.** 3/13 **B.** 4/15 **C.** 3/15 **D.** 4/13  
 7. If  $-3/(a - 3) = 3/(a + 2)$ , then  $a = ?$   
**A.** -3 **B.** -2 **C.** 1/2 **D.** 2  
 8. What is the average of  $7/8$  and  $3/4$ ?  
**A.** 13/8 **B.** 5/6 **C.** 5/3 **D.** 13/16  
 9. If the hypotenuse of a right triangle is 10 inches long and one of its legs is 5 inches long, how long is the other leg?  
**A.** 5 **B.**  $5\sqrt{3}$  **C.**  $5\sqrt{5}$  **D.** 75  
 10. If  $8y = 3x - 11$ , then  $x =$   
**A.**  $(88/3)y$  **B.**  $(8/3)y + 11$  **C.**  $(8/3)y - 11$  **D.**  $(8y + 11)/3$   
 11. Which of the statements describes the solution set for  $-2(x + 8) = -2x + 20$ ?  
**A.**  $x = -2$  only **B.**  $x = 0$  only **C.**  $x = 20$  only **D.** There are no solutions for this equation.  
 12. When graphed in the (x,y) coordinate plane, at what point do the lines  $2x + 3y = 5$  and  $x = -2$  intersect?  
**A.** (-2,0) **B.** (-2,5) **C.** (0,5/3) **D.** (-2,3)  
 13. Which of the following is equal to  $\sqrt{45}$ ?  
**A.** 15 **B.**  $5\sqrt{3}$  **C.**  $9\sqrt{5}$  **D.**  $3\sqrt{5}$   
 14. If  $a = 3$ , then  $2 / (1/7 + 1/a) = ?$   
**A.** 5 **B.** 21/10 **C.** 20 **D.** 21/5  
 15. If the expression  $x^3 + 2hx - 2$  is equal to 6 when  $x = -2$ , what is the value of  $h$ ?  
**A.** 0 **B.** -2 **C.** -4 **D.** 4  
 16. Which of the graphs below is the solution set of  $-3x \leq 12$



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17. If the domain of function  $f$  given by  $f(x) = -x^2 + 6x$  is given by the interval  $[0, 6]$ , then the range of  $f$  is given by the interval  
**A.**  $[0, 9]$  **B.**  $[0, 6]$  **C.**  $[0, 3]$  **D.**  $[3, 6]$
18. The  $x$  intercepts of the graph of  $y = -x^2 + 3x + 18$  are given by  
**A.**  $(6, -3)$  **B.**  $(-3, 6)$  **C.**  $(-3, 0)$  and  $(6, 0)$  **D.**  $(3, 0)$  and  $(-6, 0)$
19. The sum of the first  $n$  terms of a linear sequence  $S_n = n^2 + 2n$ . Determine the general term of the sequence  
**A.**  $n+1$  **B.**  $2n+1$  **C.**  $3n+1$   
**D.**  $4n+1$
20. The length of a rectangle is 3 times its width. If the width of the rectangle is 5 inches, what is the rectangle's area, in square inches?  
**A.** 15 **B.** 20 **C.** 30 **D.** 75
21. What is the slope of the line  
 $4x = -3y + 8$   
**A.** 4 **B.**  $-3/4$  **C.**  $-4/3$  **D.** 8
22. The length of a rectangle is 3 times its width. If the width of the rectangle is 5 inches, what is the rectangle's area, in square inches?  
**A.** 15 **B.** 20 **C.** 30 **D.** 75
23. If  $1.56^x = 2$ , then  $x =$   
**A.**  $\ln 1.56 / \ln 2$  **B.**  $\ln 2 / \ln 1.56$  **C.**  $2 / \ln 1.56$  **D.**  $\ln 2 / 1.56$
24. A machine valued at ₦20,000 depreciates by 10% every year. What will be the value of the machine at the end of two years?  
**A.** ₦16,200 **B.** ₦14,000 **C.** ₦12,000 **D.** ₦16,000
25.  $x^3 - 2x^2 + 4x - 8 = 0$  if  $x =$   
**A.** 4 **B.** 8 **C.** 2 **D.** -8 **E.** -4
26. The sum of integers from 4 to 8 plus the sum from 12 to 16 is  
**A.** 80 **B.** 120 **C.** 100 **D.** 110 **E.** 90
27. If the diagonals of a quadruplet are equal then the quadruplet is a  
**A.** square **B.** parallelogram **C.** rhomboid  
**D.** trapezoid **E.** rectangle
28. The sum of four powers of  $q$  starting from power 0 is 85. Then  $q =$   
**A.** 2 **B.** 3 **C.** 4 **D.** 5 **E.** 6
- | Amount (in Naira)  | 3 | 6 | 9 | 12 | 15 | 18 |
|--------------------|---|---|---|----|----|----|
| Number of Students | 3 | 9 | 6 | 15 | 3  | 12 |
29. What is the mode  
**A.** ₦3 **B.** ₦6 **C.** ₦9 **D.** ₦12 **E.** ₦15
30. Find the median of the distribution  
**A.** ₦3.00 **B.** ₦9.00 **C.** ₦12.00 **D.** ₦15.00 **E.** ₦18.00
31. Factorize:  $3a^2 - 11a + 6$   
**A.**  $(3a-2)(a-3)$  **B.**  $(2a-2)(a-3)$  **C.**  $(3a-2)(a+3)$  **D.**  $(3a+2)(a-3)$   
**E.**  $(2a-3)(a+2)$



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32. The number of telephone call  $N$  between two cities  $A$  and  $B$  varies directly as the population  $P_A$ ,  $P_B$  in  $A$  and  $B$  respectively and inversely as the square of the distance  $D$  between  $A$  and  $B$ . which of the following equations represents this relation?

A.  $N = \frac{kP_A}{D^2} + \frac{CP_B}{D^2}$       B.  $N = \frac{kP_A P_B}{D^2}$       C.  $N = kDP_A P_B$

D.  $N = kDP_A + CDP_B$       E.  $N = kD^2 P_A P_B$

33. In a soccer competition in one season, a club had scored the following goals: 2, 0, 3, 3, 2, 1, 4, 0, 0, 5, 1, 0, 2, 2, 1, 3, 1, 4, 1 and 1. The mean, median and mode are respectively

A. 1, 1.8 and 1.5      B. 1.8, 1.5 and 1      C. 1.8, 1 and 1.5  
D. 1.5, 1 and 1.8

34. Add the same number to the numerator and denominator of  $\frac{3}{18}$ . If the resulting fraction is  $\frac{1}{2}$  then the number added is

A. 13      B. 14      C. 15      D. 12

35.  $x^5 - 3x^4 + 4x - 12 = 0$  if  $x =$

A. 4      B. 3      C. 2      D. -8

36. Simplify  $\frac{a-b}{a+b} - \frac{a+b}{a-b}$

A.  $\frac{-4ab}{a^2 - b^2}$       B.  $\frac{a^2}{a^2 - b^2}$       C.  $\frac{b^2}{(a-b)^2}$       D.  $\frac{4ab}{a^2 - b^2}$

37. If opposite sides of a quadruple are equal then it is a

A. square      B. trapezoid      C. parallelogram      D. rhomboid      E. no such quadruple

38. The sum of even numbers from 12 to 18 is

A. 80      B. 40      C. 70      D. 60      E. 90

39. The sum of powers of 3 starting from power 2 is 117. Then the number of added powers is

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

40. What is the relationship between  $2ab$  and  $a+b$  where  $a, b$  are numbers?

A.  $2ab \leq a+b$       B.  $2ab \geq a+b$       C.  $2ab \neq a+b$   
D.  $2ab = a+b$       E.  $2ab > a+b$

41. There are four visitors in a party. There are two tables with two seats each. In how many different ways can these guests sit down?

A. 16      B. 24      C. 20      D. 12      E. 18

42. What is the modal goal scored

A. 0      B. 1      C. 2      D. 5

43.  $\left(\frac{x^3}{2} - \frac{8}{x}\right) \frac{2x}{x^2 - 4} =$       A.  $\frac{1}{x^2 + 4}$       B. 1      C.  $\frac{x^2 - 4}{x^2 + 4}$       D.  $x^2 + 4$

44. The value of  $\frac{3}{2} \times \frac{10}{21} \times \frac{4}{22} \times \frac{77}{5} =$       A. 5      B.  $\frac{1}{5}$       C. 2      D. 7

45.  $\tan x + \cot x =$       A.  $\sin 2x$       B.  $\frac{2}{\sin 2x}$       C.  $\frac{1}{\cos 2x}$       D.  $\cos 2x$

46.  $\frac{27x^3 - 8}{3x - 2} =$       A.  $9x^2 - 6x + 4$       B.  $9x^2 + 3x + 4$       C.  $9x^2 - 2x + 4$       D.  $9x^2 + 6x + 4$

47.  $\left(\sqrt[6]{(3)^{12}}\right)^{\frac{1}{2}} =$       A. 9      B.  $3^{1/2}$       C. 3      D. 27

48. Express 0.00562 in standard form

A.  $5.62 \times 10^{-3}$       B.  $5.62 \times 10^{-2}$       C.  $5.62 \times 10^2$       D.  $5.62 \times 10^3$

49. If  $3^{2x} = 27$

A. 1      B. 1.5      C. 4.5      D. 18

50. The population of a village is 5846. Express this number to three significant figures

A. 5850      B. 5846      C. 584      D. 585

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51. Simplify  $(\frac{3}{4} - \frac{1}{3}) \times 4\frac{1}{2} \div 3\frac{1}{4}$

- A.  $\frac{3}{2}$  B.  $\frac{13}{12}$  C.  $\frac{13}{9}$  D.  $\frac{17}{12}$

52. Write as a single fraction  $\frac{5}{6r} - \frac{3}{4r}$

- A.  $\frac{r}{12}$  B.  $\frac{1}{12r}$  C.  $\frac{r}{6}$  D.  $\frac{1}{6r}$

53. Simplify  $\log_{10}^4 + \log_{10}^{25}$

- A. 3 B. 1 C. 2 D. 4

<b>No. of goals</b>	0	1	2	3	4	5
<b>No. of matches</b>	3	5	7	4	1	0

54. What is the mean goal scored?

- A. 0.75 B. 1.75 C. 1.9 D. 2

55.  $\frac{(\frac{1}{4} - \frac{1}{5})}{(\frac{1}{3} - \frac{1}{4})} \times \frac{(\frac{1}{2} - \frac{1}{3})}{(1 - \frac{1}{5})} \times 8 =$

- A. 2 B.  $\frac{1}{6}$  C. 1 D. 4 E. 3

56. ₦1, 000,000.00 is put for 4% yearly interest for three years with the interest added at the end of each year to the base. At the end of the three years the money will be

- A. ₦1, 122,416.00 B. ₦1, 124,864.00  
C. ₦1, 241,232.00 D. ₦1, 422,232.00 E. ₦1, 441,122.00

57. Joe gets ₦40.00 to buy erasers for ₦5.00 each, pencils for ₦7.00 each and rulers for ₦8.00 each so that minimum number of items are bought and all the money is spent, then the number of pencils bought is

- A. 6 B. 3 C. 2 D. 1 E. 4

58.  $\log_a x^2 - c \log_a x = 0$  then c

- A. 4 B. 3 C. 5 D. 2 E. -3

59.  $x^3 - 3x^2 + 4x - 12 = 0$  if x =

- A. 4 B. 8 C. 2 D. 3 E. -4

60. Evaluate  $\frac{1}{2} + \frac{3}{4}$  of  $\frac{2}{5} \div 1\frac{3}{5}$

- A.  $\frac{15}{16}$  B.  $\frac{5}{16}$  C.  $\frac{49}{50}$  D.  $3\frac{1}{5}$

61. Given that  $y = px + q$  and  $y = 5$  when  $x = 3$ , while  $y = 4$  when  $x = 2$  find the values of p and q

- A. p = 1, q = 3 B. p = 1, q = 2 C. p = -2, q = 3 D. p = 3, q = -2

62. If  $\frac{y-3}{2} < \frac{2y-1}{3}$ , which of the following is true?

- A.  $y > 7$  B.  $y < -7$  C.  $y > -7$  D.  $y < 7$

63. A boy estimated his transport fare for a journey as ₦190 instead of ₦200. Find the percentage error in his estimate.

- A. 95% B. 47.5% C. 5.26% D. 5%

64. The value of  $\frac{3}{2} \times \frac{10}{21} \times \frac{7}{5} =$

- A. 5 B.  $\frac{1}{5}$  C. 1 D. 7

65. There are three boys and three girls in a party. In how many different ways can they dance?

- A. 12 B. 6 C. 9 D. 8

66. If a sweet costs ₦2.00, a chocolate costs ₦3.00 and a cake costs ₦5.00 then buy from each item at least one and as many items as possible from ₦20.00. The number of sweets you buy then is

- A. 10 B. 6 C. 8 D. 6

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67.  $\left(\sqrt[6]{(3)^{12}}\right)^{\frac{1}{2}} =$                       **A. 9**                      **B.  $3^{1/2}$**                       **C. 3**                      **D. 27**
68.  $\log x^{\log x} = 1$  where  $\log x = \log_{10} x$ . Then  $x =$   
**A. 10 or 1/10**                      **B. 0**                      **C. 2**                      **D. 3**
69. If the elements of a series are 1, 2, 3, 5, 8, 13 ... then the next element is  
**A. 22**                      **B. 19**                      **C. 16**                      **D. 21**
70.  $\log_{27} x =$  **A.  $2\log_9 x$**                       **B.  $3\log_3 x$**                       **C.  $2\log_6 x$**                       **D.  $2\log_3 x$**

**COMPUTER**

- The following are output devices except:  
**A. Mouse B. Plotter C. Printer D. Speakers E. Monitor**
- What type of device is a computer monitor?  
**A. Input B. Output C. Software D. Storage E. Processing**
- What type of device is a computer keyboard  
**A. Input B. Output C. Software D. Storage E. Processing**
- What type of devices are computer speakers or headphones?  
**A. Input B. Output C. Software D. Storage E. Processing**
- What type of device is a computer printer?  
**A. Input B. Output C. Software D. Storage E. Processing**
- What type of device is a 3 1/2 inch floppy drive?  
**A. Input B. Output C. Software D. Storage E. Processing**
- What type of device is a computer mouse?  
**A. Input B. Output C. Software D. Storage E. Processing**
- What type of devices are CDs or DVDs?  
**A. Input B. Output C. Software D. Storage E. Processing**
- What type of device is a digital camera?  
**A. Input B. Output C. Software D. Storage E. Processing**
- A program that can copy itself and infect a computer without the permission or knowledge of the owner is called what?  
**A. Floppy B. Virus C. Java D. Monitor E. Flash**
- Which of these is a correct format of IP address?  
**A. 192.168.1.1 B. 192.168.111.1111 C. 192.168.900.1 D. 192.900.168.1 E. 192.16.168.111**
- Which was the first web browser?  
**A. WorldWideWeb B. Netscape Navigator C. Internet Explorer D. Safari E. Chrome**
- It is a small piece of text stored on a user's computer by a web browser for maintaining the state. What we are talking about?  
**A. Application B. Session C. Cookie D. QueryString E. Applets**
- Which of these is a correct format of Email address?  
**A. contact.website.info B. contactwebsite.info C. [contact@website.info](mailto:contact@website.info) D. contact@website@info E. Contact.website@info**
- What does HTTP stands for?  
**A. Hypertext Transfer Protocol B. Hypertext Transfer Plotter C. Head Tail Transfer Plot D. Head Tail Transfer Protocol E. Hypertext Transmission Process**
- In computers, what is the smallest and basic unit of information storage?  
**A. Bit B. Byte C. Newton D. Mega byte E. Kilo byte**
- What is Windows XP?  
**A. Operating System B. Storage Device C. Processor D. Output Device E. Input Device**
- Which of the following is responsible for the management and coordination of activities and the sharing of the resources of the computer?  
**A. Application Software B. Motherboard C. Operating System D. RAM E. System Software**

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19. MP3 file format is associated with what type of files?  
**A. Video B. Audio C. Image D. Word Document E. Flash file**
20. MS-Word is an example of  
**A. Application Software B. System Software C. Operating System D. Scanner E. ALU**
21. Which software application is used for accessing sites or information on a network (as the World Wide Web)?  
**A. Operating System B. Web Browser C. Microsoft Word D. Microsoft Excel E. FileZilla**
22. What are the two broad categories of software?  
**A. MS Word and Spreadsheet B. Transaction and Application C. Microsoft and Mac OS D. System and Application E. Transaction and System**
23. One kilobyte contains how many bytes?  
**A. 1000 B. 1001 C. 100 D. 1024 E. 10**
24. Who Owns the Internet?  
**A. Internet Engineering Task Force B. ICANN C. Internet Architecture Board D. No one owns it E. InterNIC**
25. What is the shortcut key of printing a document for computer having windows?  
**A. Ctrl + P B. Shift + P C. Alt + P D. Shift + PP E. Fn + P**
26. In computers, '.TMP' extension refers usually to what kind of file?  
**A. Temporary file B. Image file C. Video file D. Text file E. Database file**
27. The way of manipulating data into information is called  
**A. Storing B. Processing C. Deletion D. Organizing E. Transmission**
28. What Does BIOS Stand For?  
**A. Better Integrated Operating System B. Basic Input Output System C. Battery Integrated Operating Setup D. Backup Input Output System E. Battery Input Operating System**
29. Memory management is a feature of  
**A. Processor B. Operating System C. MS Word D. Animation E. UPS**
30. Which of the following is not a storage device?  
**A. DVD B. Hard Disk C. Floppy Disk D. Mouse E. Flash Drive**

**ANSWERS**

**ENGLISH**

1. A
2. D
3. D
4. A
5. D
6. C
7. C
8. D
9. B
10. D
11. C
12. C
13. C
14. A
15. D
16. C
17. A
18. D
19. B
20. C
21. B
22. D
23. C
24. A
25. C
26. D
27. D
28. B
29. C
30. D
31. D
32. D
33. D
34. D
35. B
36. C
37. A
38. B
39. D
40. D
41. B
42. D
43. C
44. C
45. D
46. D
47. A
48. A
49. C
50. A
51. C
52. B
53. B

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- 54. C
- 55. D
- 56. D
- 57. B
- 58. B
- 59. C
- 60. A
- 61. C
- 62. B
- 63. C
- 64. A
- 65. D
- 66. C
- 67. B
- 68. C
- 69. A
- 70. D
- 71. B
- 72. B
- 73. D
- 74. B
- 75. C

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**ECONOMICS**

1. D
2. D
3. C
4. D
5. C
6. A
7. A
8. A
9. D
10. D
11. C
12. B
13. B
14. D
15. D
16. D
17. C
18. D
19. D
20. A
21. A
22. B
23. D
24. C
25. A
26. B
27. C
28. C
29. C
30. C
31. A
32. C
33. A
34. C
35. D
36. A
37. C
38. D
39. D
40. A
41. C
42. C
43. D
44. C
45. D
46. D
47. C
48. C
49. C
50. D
51. D
52. D
53. A
54. A

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- 55. B
- 56. D
- 57. A
- 58. B
- 59. B
- 60. B

**GOVERNMENT**

- 1. A
- 2. C
- 3. A
- 4. D
- 5. D
- 6. C
- 7. D
- 8. C
- 9. C
- 10. C
- 11. D
- 12. D
- 13. B
- 14. C

- 15. B
- 16. A
- 17. B
- 18. A
- 19. D
- 20. D
- 21. A
- 22. C
- 23. D
- 24. A
- 25. C
- 26. A
- 27. D
- 28. B
- 29. B
- 30. B
- 31. A
- 32. A
- 33. D
- 34. B
- 35. B
- 36. A
- 37. D
- 38. C
- 39. A
- 40. D
- 41. B
- 42. B
- 43. A
- 44. C

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45. D
46. A
47. E
48. D
49. C
50. B
51. C
52. D
53. D
54. A
55. B
56. B
57. A
58. C
59. D
60. B

**GEOGRAPHY**

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

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- 36. D
- 37. B
- 38. D
- 39. B

**MATHEMATICS**

- 1. D
- 2. B
- 3. D
- 4. B
- 5. D
- 6. A
- 7. C
- 8. D
- 9. B
- 10. D
- 11. D
- 12. D
- 13. D
- 14. D
- 15. C
- 16. C
- 17. A
- 18. C
- 19. B
- 20. D
- 21. D
- 22. D
- 23. B
- 24. A
- 25. C
- 26. C
- 27. E
- 28. C
- 29. D
- 30. C
- 31. A
- 32. B
- 33. B
- 34. D
- 35. B
- 36. A
- 37. C
- 38. D
- 39. C
- 40. A
- 41. B
- 42. C
- 43. D
- 44. C
- 45. B
- 46. D
- 47. C

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48. A
49. B
50. D
51. A
52. B
53. C
54. B
55. C
56. B
57. C
58. D
59. D
60. B
61. B
62. C
63. D
64. C
65. B
66. C
67. C
68. A
69. D
70. B

**COMPUTER**

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

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