**PATFIN SECONDARY SCHOOL, AKESAN, LAGOS STATE.**

**THIRD TERM EXAMINATION [2018 / 2019]**

**CLASS: JSS 1**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SUBJECT: BASIC SCIENCE**

**INSTRUCTION: ANSWER ALL QUESTIONS DURATION: 1 HOUR 45MINUTES**

**OBJECTIVES**

1. Any energy source that is being replaced all the time is a \_\_\_\_\_\_\_ energy source (a) newable (b) good (c) solar (d) renewable

2. In science, a push or pull is a (a) force (b) rise (c) fall (d) game

3. One of the following is not a force field (a) gravitational force (b) electrical (c) frictional force (d) electrostatic force

4. In what year did Nigeria launch her first satellite into space? (a) 1960 (b) 2000 (c) 2007 (d) 2009

5. Which is the closest planet to the sun? (a) Mercury (b) Earth (c) Saturn (d) Uranus

6. The weight of an object on the surface of the moon is (a) one-tenth that on earth (b) one-sixth that on earth (c) the same with that on earth (d) ten times that on earth

7. One advantage of maintaining cleanliness hygiene during menstruation is (a) it prevents cold and catarrh (b) it allows flexibility (c) it prevents body odor and discomfort (d) it shows a sense of maturity

8. The stage at which a male and female sex organs mature is called (a) development (b) probating (c) puberty (d) myth

9. Teenage pregnancy can be defined as pregnancy of a female between the age of (a) ten to twenty years (b) ten to thirteen years (c) ten to nineteen years (d) thirteen to nineteen years

10. Myths about teenage pregnancy are (a) scientifically true (b) cultural beliefs that are true (c) cultural belief/facts that are baseless and should be disregarded (d) not common in our society.

11. One of the physical consequences of teenage pregnancy is (a) frustration (b) anxiety (c) low birth weight (d) confusion

12. All the following can cause birth defects except (a) diabetes (b) smoking (c) drug abuse (d) miscarriage

13. What is the surest way of preventing an STI? (a) careful selection of partners (b) sexual abstinence (c) using condom during sex (d) looking for STI signs on the partner

14. Conception occurs in (a) fallopian tube (b) oviduct (c) uterus/womb (d) vagina

15. Menstruation starts between the age of \_\_\_\_\_ in girls (a) 10-18 (b) 18-15 (c) 12-20 (d) 6-14

16. The release of egg(s) from the ovary to the fallopian tube is called (a) ovulation (b) menstruation (c) fertilization (d) pregnancy

17. Balanced forces make bodies remain in \_\_\_\_\_\_ (a) disunity (b) equilibrium (c) opposite (d) unbalanced

18. Unlike poles or ends on a magnet \_\_\_\_\_\_ each other (a) attract (b) repel (c) connect (d) prepare

19. The first successful space travel was in what year? (a) 1920 (b) 1961 (c) 1960 (d) 1819

20. A condition of having no weight is known as \_\_\_\_\_\_ (a) weightlessness (b) weight (c) friction (c) gravity

21. A child that lacks vitamin D is prone to \_\_\_\_\_\_ (a) rickets (b) beri beri (c) kwashiorkor (d) scurvy

22. Solid waste is referred to as (a) sewage (b) bush (c) filth (d) refuse

23. Which of these is not an excretory organ? (a) kidney (b) liver (c) lungs (d) intestine

24. The act of taking drugs frequently, such that one cannot do without it is called (a) drug abuse (b) drug overdose (c) drug addiction (d) drug medication

25. Which of these cannot be regarded as an air pollutant? (a) nitrogen (b) smoke (c) noise (d) dust

26. The first successful space travel was undertaken by who \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

27. There is no \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in space

28. The time between one menstruation and the next is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

29. The force that pulls all objects towards the centre of the earth is called \_\_\_\_\_\_\_\_\_\_\_\_

30. An energy source that is being replaced all the time is a \_\_\_\_\_\_\_\_\_\_\_\_ energy source.

**THEORY**

Answer question 1 and any other two.

1. A particle weighing 0.1kg falls through a height of 1.5m at the surface of the earth. Assuming the acceleration due to gravity is 9.8m/s2 . Calculate the gravitational force of the object.

2a. Explain the meaning of force

b. Give two examples of

i. Contact force

ii. Non-contact force

3a. Define the term space travel

b. Mention two benefits and two dangerous of space travel.

4a. Differentiate between renewable and non-renewable energy sources

b. Give three examples of each

5. Briefly explain the following

a. Menstruation

b. Teenage pregnancy

c. Ovulation

**PATFIN SECONDARY SCHOOL, AKESAN, LAGOS STATE.**

**THIRD TERM EXAMINATION [2018 / 2019]**

**CLASS: JSS 2**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SUBJECT: BASIC SCIENCE**

**INSTRUCTION: ANSWER ALL QUESTIONS DURATION: 1 HOUR 45MINUTES**

**OBJECTIVES**

1. \_\_\_\_\_\_ is a term used to describe the energy content of a system related to heating effects (a) mechanical (b) thermal energy (c) kinetic energy (d) chemical energy

2. Sun rays reach the earth’s surface by \_\_\_\_\_\_ (a) heat transfer (b) conduction (c) radiation (d) heat

3. When energy is transferred, it result into \_\_\_\_\_\_ energy (a) conduction (b) mechanical (c) convection (d) heat

4. The temperature at which a substance changed from the solid state directly into gaseous state is termed \_\_\_\_\_\_ (a) condensation point (b) sublimation (c) melting point (d) freezing point

5. \_\_\_\_\_\_\_ is a substance produced when two or more elements react together form a new product (a) nuclear (b) chemical (c) molecules (d) element

6. The chemical formula for water is \_\_\_\_\_\_ (a) H20 (b) 2HO (c) HO2 (d) wr

7. The chemical reaction between hydrogen gas and oxygen gas produces \_\_\_\_\_\_ (a) solid (b) water (c) suspension (d) colloid

8. The following are products from chemical industries except (a) catapult (b) soaps (c) paints (d) cosmetics

9. Taking drugs without doctor’s advice and directives is known as \_\_\_\_\_\_ (a) abuse (b) addiction (c) overdose (d) heroine

10. All these resources are obtained from decayed living matter, except \_\_\_\_\_\_ (a) coal (b) diesel (c) methane (d) iron

11. The human brain is encased in the \_\_\_\_\_ (a) heart (b) head (c) skull (d) ribs

12. The end product of carbohydrate digestion in the alimentary canal is \_\_\_\_\_\_ (a) glucose and simple sugars (b) amino acids (c) fatty acids and glycerol (d) poly saccharide

13. The removal of waste products of digestion from the body is called \_\_\_\_\_\_\_ (a) excretion (b) defecation (c) digestion (d) ingestion

14. The alimentary canal comprises of the following except \_\_\_\_\_\_ (a) gullet (b) lungs (c) mouth (d) stomach (e) intestine

15. One of the following is not an excretory organ (a) lung (b) liver (c) kidney (d) anus

16. Which botanist is associated with Brownian motion? (a) Robert Brown (b) William Johnson (c) Karl Max (d) Judge Brown

17. The kinetic theory is associated with the random behavior of \_\_\_\_\_ (a) humans (b) particles (c) living things (d) organisms

18. When the number of molecules leaving the liquid equals the number entering it, the vapor is said to be \_\_\_\_\_\_ (a) heated (b) saturated (c) equality (d) filled

19. The transfer of heat by the movement of a liquid or air is called \_\_\_\_\_\_\_ (a) radiation (b) convection (c) convention (d) circulation

20. Which of the following is not among the importance of breast feeding for babies? (a) it is readily available (b) there is no risk of contamination (c) it contributes to protect baby from disease (d) it may hinder the growth of the baby.

21. Which type of abstinence is associated with some Roman Catholic Priest? (a) life long abstinence (b) delayed abstinence (c) periodic abstinence (d) secondary abstinence

22. Which of the following is not a class of chemical based on use? (a) nuclear (b) industrial (c) agro chemical (d) highly hazardous and toxic

23. The breast milk contains nutritional elements and \_\_\_\_\_\_ (a) antibodies (b) toxic element (c) mental bodies (d) cow milk

24. After fractional distillation of crude oil, the commonest impurity is \_\_\_\_\_\_ (a) sand (b) propane (c) methane (d) sulphur

25. Crude oil is a mixture of naturally occurring \_\_\_\_\_\_ (a) oxygen (b) carbon dioxide (c) hydrogen (d) hydrocarbons

**FILL IN THE GAPS**

26. It is always good to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ babies

27. The process by which heat is transferred from a hotter to a cooler place without heating the intervening medium is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

28. The only factor that can affect evaporation is the level of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy

29. Blue black color in food test shows the presence of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

30. Heat flows by \_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_

**THEORY**

Answer any three.

1a. What is abstinence?

b. State three myths and facts about abstinence

c. Mention two skills that promote abstinence

2a. Explain the term chemical

b. State five safety measures when using chemicals

3a. What is drug abuse?

b. Mention three ways of drug abuse

c. State two social risks factors in drug abuse

4a. Explain the terms, crude oil and petro chemicals

b. Mention three steps in oil refining

c. State two importance of crude oil and petro chemicals

5. Explain the following

a. Potential energy

b. Kinetic energy

c. Body image

d. Communication

e. Work

**PATFIN SECONDARY SCHOOL, AKESAN, LAGOS STATE.**

**THIRD TERM EXAMINATION [2018 / 2019]**

**CLASS: JSS 1**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SUBJECT: ENGLISH STUDIES**

**INSTRUCTION: ANSWER ALL QUESTIONS DURATION: 1 HOUR 45 MINUTES**

**COMPREHENSION PASSAGE**

Read this passage carefully and use it to answer questions below it.

Gender refers to the sum of cultural values, attitudes, role, practices and characteristics based on sex. Gender also reflects and perpetuates particular power relations between men and women. It refers to the social interpretation of what it means to be female or male. Gender is the condition of being masculine or feminine through one’s behavior. One is born and labeled male or female biologically. But one learns how to be masculine or feminine.

Gender identity is socially derived. Gender identity is formed through socialization and not biology. It is determined by cultural beliefs about what it means to be a man or woman in each society. Gender identity changes overtime, reflecting social realities in a given community.

Roles considered appropriate for males or females in a culture is a cluster of socially defined expectations that people of one gender are expected to fulfill. However, changes in gender roles do occur. Religion, family structure, politics, economic conditions, education, laws and traditions influence them. Many roles are culturally determined. Both boys and girls need help sorting out how gender role expectations after their behaviors in relationships, leisure, activities and careers.

1. Paragraph one \_\_\_\_\_\_ (a) state the advantages of gender (b) explains gender roles (c) explains what gender is (d) states the effect of gender

2. The topic sentence of the second paragraph is \_\_\_\_\_\_ (a) gender identity is formed through socialization (b) gender identity is formed through socialization and not biology (c) it is determined by cultural beliefs (d) gender identity is socially derived

3. From the passage, it can be inferred that \_\_\_\_\_\_\_ (a) one learns to be male or female (b) gender role is the condition of being male (c) one learns how to be masculine or feminine (d) gender roles affect careers only

4. According to the passage, gender roles \_\_\_\_\_\_\_ (a) change (b) reflect (c) identify (d) fulfill

5. \_\_\_\_\_\_ does not influence gender roles (a) Religion (b) Biology (c) Politics (d) Education

**LEXIS AND STRUCTURE**

From the options lettered A-D, choose the appropriate word that can fill in each of the numbered gaps

-6- have extended our knowledge of the world by studying the -7-. One of the planetary bodies often studied is the moon. Scientists who travel in space, known as -8-, have described the moon as being both even and uneven. The moon -9- or rotates around the Earth in 28-29 days making one -10-month.

A B C D

6. Mourners astronomers astrologers mooners

7. Planets platelets Pluto craters

8. Astronomers astrologers palmists astronauts

9. Devolves revolves involves moves

10. Lunar mooner monthly sonar

Fill in the gaps with the most suitable word from the options provided below each statement.

11. Joan did not play a trick on anyone, \_\_\_\_\_ she? (a) didn’t (b) do (c) did (d) does

12. The man was honest \_\_\_\_\_\_? (a) was he (b) could he (c) wasn’t he (d) not so

13. The correct response to the question. The man is a cook, isn’t he? Is \_\_\_\_\_ (a) Yes, he isn’t (b) No, he wasn’t (c) Yes, he is (d) No, he is

14. The man \_\_\_\_\_ by the dog (a) was bitten (b) was biting (c) was bitting (d) was bit

15. None of the following is a Yes/No question except \_\_\_\_\_\_ (a) what a beautiful day we’ve had (b) who brought this? (c) are you serious (d) she is just wonderful

16. In indirect speech, the sentence: “Who brought the message here yesterday? Asked John will be asked \_\_\_\_\_ (a) who had brought the message here yesterday (b) who has brought the message there the previous day (c) who had brought the message there the previous day (d) who brought the message here the previous day

17. The passive form of the sentence, The man nearly killed the snake is \_\_\_\_\_\_ (a) The man was nearly killed by the snake (b) The snake was nearly killed by the man (c) The snake had been killed by the man (d) The snake had been nearly killed by the man

18. The sentence, He celebrated his birthday, re-written in the passive structure will be, His birthday \_\_\_\_\_\_ celebrated (a) has been (b) had been (c) was (d) is

***Choose from the options lettered (a)-(d), the one that contains the given phonetic symbol***

19. /µа/ (a) sure (b) bureau (c) feud (d) treasure

20. /ʦ/ (a) catch (b) fish (c) june (d) suggest

21. /ɑі/ (a) mild (b) air (c) bait (d) boil

22. /˄/ (a) beauty (b) cot (c) monkey (d) put

23. /іә/ (a) bite (b) great (c) here (d) loiter

24. /аµ/ (a) aloud (b) new (c) low (d) should

25. /Ͻ˸/ (a) could (b) lost (c) court (d) love

***Fill in the gap with the correct option from words lettered A-D***

26. “The old man is a snake”. The figure of speech used in this expression is \_\_\_\_\_\_ (a) metaphor (b) apostrophe (c) euphemism (d) personification

27. “He is as brave as a lion”. This is an example of \_\_\_\_\_\_ (a) simile (b) alliteration (c) assonance (d) metaphor

28. According to the story, “Wives and mother”, Kunle’s mother accused Paulina of being \_\_\_\_\_\_ (a) spend thrift (b) wizard (c) demon (d) fornicator

29. Who is the author of the book, “Ugonna the school drop-out”? (a) Okeke C. Jerry (b) Seinde Arogbofa (c) Taiwo Oyelade (d) Paul Mario

30. According to the story, “Ugonna the school drop-out”, at what age do young men in Akpokwe required to form an age grade meeting? (a) 15 years (b) 17 years (c) 19 years (d) 25 years

**THEORY PART B**

**ESSAY WRITING**

Answer three questions from this part. For question, choose either A or B.

1a. Write in support or against the topic, “Tribalism is a better evil than Cultism”

**OR**

1b. Write a composition on: “The Most Memorable Day of My Life”

2. Change the following sentences from active to passive voice

a. The girls may have seen us

b. A rat is digging a hole in the garden

c. The students supported the new government

d. The woman killed a rat

e. Mr. Stone ate the food

3. What question tag will you add to these statements?

a. Sam is not fat, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?

b. Get out of my room, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?

c. Uncle Jim can’t dance, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?

d. They used to smoke, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?

e. They love each other, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?

**PART C**

**LITERATURE-IN-ENGLISH**

***Answer all***

1. Wives and mothers by Seinde Arogbofa

a. List ten characters in the book

b. In three sentences, describe mama’s attitude towards her daughter in law

2. Ugonna the school drop-out by Okeke Chika Jerry

a. How old was Ugonna when his brother was born?

b. Why did Ugonna refuse to go to school again?

c. What made the town union to reward Ugonna?

**PATFIN SECONDARY SCHOOL, AKESAN, LAGOS STATE.**

**THIRD TERM EXAMINATION [2018 / 2019]**

**CLASS: JSS 2**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SUBJECT: ENGLISH STUDIES**

**INSTRUCTION: ANSWER ALL QUESTIONS DURATION: 1 HOUR 45MINUTES**

**PAPER A – COMPREHENSION PASSAGE**

***Read this passage carefully and use it to answer the questions below it.***

The environmental restoration of Nigeria’s Ogoni land oil region could prove to be the world’s most wide-ranging and long term clean up exercise ever, if contaminated drinking water, land, creeks and other ecosystems are to be brought back to full health, according to a United Nations report.

The independent scientific assessment, carried out by the United Nations Environmental Programme (UNEP) over a 14-month period, showed greater and deeper pollution than previously thought after an agency team examined more than 200 locations, surveyed 122 kilometers of pipeline rights of way, analyzed 4,000 soil and water samples, reviewed more than 5,000 medical records and engaged with over 23, 000 people at local community meetings.

Meanwhile, Ogoni communities are exposed to hydrocarbons everyday through multiple routes. Ranging from the disastrous impact on mangrove vegetation to the contamination of wells with potentially cancer-causing chemicals in a region. While the impact of individual contaminated land sites tends to be localized, air pollution related to oil industry operation is pervasive and affects the quality of life of close to one million people.

1. Which word in paragraph one means the same as one of the following pairs of word (a) widespread, broad (b) restricted, narrow (c) limited, controlled (d) partial, incomplete

2. The word independent, as used in paragraph two, is a/an (a) verb (b) adjective (c) adverb (d) noun

3. What kinds of pollution have greatly affected Ogoni land? (a) water and air (b) light and noise (c) plastic and car (d) land and nuclear

4. Which of the following is not an after effect of oil pollution in Ogoni land? (a) contamination of wells (b) pollution of water (c) pollution affects one million people (d) pollution will not be localized

5. Which of the following is true about the first paragraph? (a) it is a one sentence paragraph (b) the paragraph contains one simile (c) the paragraph consists of three sentences (d) the paragraph contains 46 words

**LEXIS AND STRUCTURE**

***From the options lettered A-D, choose the appropriate word that can fill in each of the numbered gaps***

The Earth is one of the -6- in our -7- system. It is the third planet from the sun. It is the only place in the -8- known to -9-life. Many -10- disasters occur on the Earth.

A B C D

6. regions planets domains districts

7. lunar polar solar sonar

8. universe Americas Indian ocean sun

9. destroy encourage reject support

10. unnatural natural artificial cultural

***From the list of words (a) to (d), choose the one that is nearly opposite in meaning to the underlined word in each sentence to fill in the gap.***

11. Success has many relations but \_\_\_\_\_\_ is an orphan (a) laziness (b) idleness (c) poverty (d) failure

12. Toro was advised to make his illegible writing \_\_\_\_\_\_ (a) fine (b) readable (c) straight (d) clear

13. Nowadays, a car should be seen more of a \_\_\_\_\_\_ than luxury (a) commodity (b) property (c) necessity (d) possession

14. Alao is one of the most affluent men just in Nigeria (a) rich (b) indigent (c) diligent (d) intelligent

15. As soon as the sun appeared, the cloud just \_\_\_\_\_\_ (a) vanished (b) defrost (c) dissolved (d) bursts

***From the options labeled (a)-(d), choose the one that is nearest in meaning to the word underlined.***

16. The lady was able to recognized the robber that came to her house (a) identify (b) arrest (c) see (d) chase

17. His employers fired him because he was lazy (a) shot (b) condemned (c) sacked (d) praised

18. The police subjected the accused to serious interrogation (a) torture (b) questioning (c) hardship (d) beating

19. Yetunde is a peace lover, she rarely quarrels with her neighbors (a) always (b) seldom (c) repeatedly (d) often

20. The disagreement Kunle had with his friend has been settled (a) discussed (b) avenged (c) seen to (d) resolved

***Choose from the options labeled (a) to (d) the one that contains the phonetic symbol given.***

21. /ᵁ˸/ (a) look (b) tool (c) book (d) blood

22. /tᶴ/ (a) machine (b) chair (c) architect (d) chef

23. /˄/ (a) aboss (b) bus (c) pot (d) bore

24. /j/ (a) away (b) unite (c) cousin (d) joy

25. /ᵚ/ (a) vision (b) win (c) June (d) live

***Fill in the gap with the correct option from words lettered A-D***

26. “The cloud is pregnant”. The figure of speech used in this expression is \_\_\_\_\_\_ (a) metaphor (b) personification (c) euphemism (d) irony

27. A bouncing baby boy was born in Bonny is an example of \_\_\_\_\_\_ (a) assonance (b) alliteration (c) simile (d) rhyme

28. Most poems are written in \_\_\_\_\_\_ (a) rhymes (b) stanzas (c) chapters (d) paragraphs

29. According to the story, “My brother my soul”. In what hospital was John’s mother admitted? (a) St. Rita’s hospital (b) St. Martin’s hospital (c) St. Michael’s hospital (d) St. Mary’s hospital

30. In the book, “Divine Justice”. Who is Folabi? (a) Taye’s son (b) Alade’s son (c) Ife’s son (d) Head of Alade’s family

**PART B - THEORY**

**SECTION A – COMPOSITION**

Instruction: Answer one question from this section

1a. Write a letter to your friend in another school telling him or her about your English Studies Teacher, giving at least three reasons why you like him.

OR

b. Write a composition on, A Memorable Journey I Once Made

**SECTION B – GRAMMAR**

Answer all questions in this section.

2. Find the adverbs in these sentences and state their kinds

a. They ran quickly

b. We often see her

c. The girls danced happily

d. The boys came yesterday

e. They live there

3. What prefix will you add to these words?

a. Cycle

b. Able

***Add suffix to these words***

c. Fear

d. Care

e. Farm

**SECTION C**

**LITERATURE – IN – ENGLISH**

***Answer all questions in this section***

1. My Brother My Soul by Deji Oripeloye

a. Who is the narrator?

b. Why did Peter faint at the hospital?

c. State two moral lessons in the prose fiction

2. Divine Justice by Olaide Akintola

a. Who is Alade?

b. In three sentences, summarize the book.

**PATFIN SECONDARY SCHOOL, AKESAN, LAGOS STATE.**

**THIRD TERM EXAMINATION [2018 / 2019]**

**CLASS: JSS 1**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SUBJECT: MATHEMATICS**

**INSTRUCTION: ANSWER ALL QUESTIONS DURATION: 1 HOUR 45 MINUTES**

***Answer all questions in this section***

1. Calculate the perimeter of a triangle in (cm) whose dimensions are 1m60cm, 1m80cm and 2m (a) 460cm (b) 540cm (c) 576cm (d) 660cm

2. Find the area of a parallelogram with base 8cm and vertical height 5cm (a) 40cm2 (b) 20cm2 ()c 360cm (d) 180cm

3. Express 99.8cm in meters (a) 9980m (b) 998m (c) 9.98m (d) 0.998m

4. Express 4837mm in kilometer (a) 483.7km (b) 48.37km (c) 0.004837km (d) 4.837km

5. \_\_\_\_\_ has an infinite number of lines of symmetry (a) circle (b) rectangle (c) square (d) triangle

6. Calculate the volume of a cube of length 8m (a) 24cm3 (b) 512m3 (c) 24m3 (d) 512cm3

7. Calculate the volume of a cone if the height is 3cm and the base radius is 7cm (a) 145cm3 (b) 154cm3 (c) 452cm3 (d) 462cm3

8. Find the perimeter of a rectangle with length 11cm and its area is 99cm2 (a) 40cm (b) 38cm (c) 20cm (d) 11cm

9. A number is tripled and then 17 is subtracted. If the result is 40, find the original number (a) 91 (b) 75 (c) 57 (d) 19

10. Calculate the perimeter of a square of sides 3.08mm (a) 12.32cm (b) 9.49cm (c) 9.49cm2 (d) 12.32cm2

11. 5units 7units The triangle below is called \_\_\_\_\_ (a) scalene triangle (b) obtuse angled triangle (c) right angled triangle

9units

12. The diameter of a circle is 42cm, calculate its circumference (a) 6cm (b) 132cm (c) 968cm (d) 264cm

13. A circular plate has a circumference of 88cm, calculate the radius of the plate (a) 88cm (b) 14cm (c) 8.8cm (d) 28cm

14. Find the are of a semi-circle of radius 7cm (∏=22/7) (a) 78cm2 (b) 77cm2 (c) 68cm2 (d) 44cm2

15. Calculate the perimeter of a regular pentagon of side 10.5cm (a) 21.0cm (b) 105cm (c) 5.25cm (d) 52.5cm

16. P Q

PQRS is a quadrilateral. Then PQ is called \_\_\_\_\_ (a) chord (b) diagonal (c) diameter (d) symmetry

S R

17. The perimeter of the shape shown below is \_\_\_\_\_ (all units in cm)

3y+6

2x 2x

3y-2

(a) (4x + 4y)cm (b)(4x + 6y + 4)cm (c) (6y – 2)cm (d) (4x + 6y - 4)cm

18. Subtract -9 from the sum of -8 and 10 (a) 11 (b) 7 (c) -7 (d) -11

19. Take away 125mm from 38cm giving your answer in mm (a) 22.5mm (b) 225mm (c) 152mm (d) 255mm

20. A rectangular container has a length of 30mm, width 25mm and height 15mm. the volume of the container is \_\_\_\_\_ (a) 112.5cm2 (b) 112.5cm3 (c) 11.25cm2 (d) 11.25cm3

21. Solve for x, if 2x + 5 = 9 (a) 14 (b) 7 (c) 2 (d) -2

22. Express 4.12cm2 in mm2 (a) 412mm2 (b) 41.2mm2 (c) 4.12mm2 (d) 0.412mm2

23. The distance measure round an object is called \_\_\_\_\_ (a) radius (b) perimeter (c) diameter (d) length

24. The length of an equilateral triangle is xcm and its perimeter is 27cm, find x (a) 3cm (b) 9cm (c) 18cm (d) 27cm

25. A crate of eggs contains 30eggs, n of them are broken. How many eggs remains? (a) (30-n)eggs (b) (30+n)eggs (c) (n-30)eggs (d) 30n eggs

26. Express 0.007 hectares in m2 (a) 7m2 (b) 0.07m2 (c) 70m2 (d) 70,000m2

27. A triangle with unequal sides and unequal angles is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

28. The region between two radius and an arc is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

29. \_\_\_\_\_\_\_\_\_\_\_\_\_ divides a circle into equal parts

30. Express 2.8m2 in cm2 (a) 28,000ccm2 (b) 208cm2 (c) 280cm2 (d) 2800cm2

SECTION B

*Instruction: answer any three questions in this section*

1. Calculate the area of the shape shown below

25.6cm

10.4cm 10.4cm

6.9cm 1.5cm 6.9cm

3.2cm 3.2cm

2a. I added 18 to 3 times a number, the result is equal to 5 times the number. What is the number?

b. If 5(r-l) +4 (r+2) = 75, find r

3. 26cm

10cm

6cm 6cm

Calculate (a) the radius of the semi circle

(b) the perimeter

(c) total area of the figure

4. The perimeter of a semi circle is 22cm calculate its area (Take ∏=22/7)

5. List the properties of the following

(i) Square

(ii) Equilateral triangle

(iii) Isosceles triangle

**PATFIN SECONDARY SCHOOL, AKESAN, LAGOS STATE.**

**THIRD TERM EXAMINATION [2018 / 2019]**

**CLASS: JSS 2**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SUBJECT: MATHEMATICS**

**INSTRUCTION: ANSWER ALL QUESTIONS DURATION: 1 HOUR 45MINUTES**

1. In a toss of a fair die, the probability of getting a five is \_\_\_\_\_ (a) ½ (b) 1/6 (c) 1/5 (d) 5/6

2. Find the difference between the median and the mode of the scores: 4,3,5,9,4,6,3,8,6,4,5 (a) 5 (b) 4 (c) 3 (d) 1

3. A B Answer question 3 and 4 with the diagram

Y

85⁰

X

58⁰

What is the value of y (a) 58⁰ (b) 95⁰ (c) 85⁰

(d) 37⁰

C D

4. What is the value of x (a) 58⁰ (b) 95⁰ (c) 85⁰ (d) 95⁰

5. Find the value of the angle marked x

30⁰

88⁰

2x

100⁰

x

(a) 148⁰ (b) 74⁰ (c) 47⁰ (d) 37⁰

6. \_\_\_\_\_ is used to measure angles of elevation and depression (a) ruler (b) protractor (c) French curve (d) clinometers

7. If the bearing of a school from home is 225⁰, what is the bearing of home from the school? (a) 135⁰ (b) 045⁰ (c) 105⁰ (d) 055⁰

8. A polygon has 10080⁰ as the total interior angle. How many sides has the polygon? (a) 58 (b) 48 (c) 40 (d) 32

9. If the sum of the sectorial angles representing private cars and school buses is as given. Find x (a) 252⁰ (b) 160⁰ (c) 126⁰ (d) 108⁰

10. The ratio of required outcome to the total outcome is (a) probability (b) sample space (c) game of chance (d) outcome

11. The sum of angles at a point is \_\_\_\_\_ (a) 270⁰ (b) 180⁰ (c) 360⁰ (d) 120⁰

12. What number is represented by the tally marks below?

(a) 33 (b) 43 (c) 13 (23)

13. If a student stand 15m away directly west of a tree. What is the tree’s bearing from the student? (a) 030⁰ (b) 045⁰ (c) 090⁰ (d) 270⁰

14. In the diagram below angle x and y are called

(a) angles in alternate segment x

(b) complementary angles

(c) supplementary angles y

(d) vertically opposite angles

15. Find the marked angle P in the figure below (a) 30⁰ (b) 150⁰ (c) 60⁰ (d) 120⁰ P

150⁰

16. In a set of data: 3,4,5,6,7,8,9,10,11 the probability that an odd number is chosen is \_\_\_\_\_ (a) 5/9 (b) 4/9 (c) 3/9 (d) 2/9

17. A prefect is to be chosen from a class of 12 girls and 8 boys. What is the probability that the prefect is a girl? (a) 3/5 (b) 1/5 (c) 205⁰ (d) 335⁰

18. Change 525⁰w to a three digit bearing (a) 205⁰ (b) 025⁰ (c) 115⁰ (d) 335⁰

19. A triangle with unequal sides and un equal angles is \_\_\_\_\_ (a) equilateral (b) isosceles (c) scalene (d) right angled

20. What is the sum of the interior angles of a polygon with seven sides? (a) 1080⁰ (b) 720⁰ (c) 900⁰ (d) 540⁰

21. \_\_\_\_\_ is the representation of statistical data in form of pictures (a) bar charts (b) histograms (c) pie chart (d) pictogram

22. The tally represents (a) 25 (b) 51 (c) 55 (d) 16

23. The angle of elevation of A from B is 054; then the angle of depression of B from A is \_\_\_\_\_ (a) 054⁰ (b) 045⁰ (c) 036⁰ (d) 090⁰

24. The mean of three numbers is 6, the mode of the numbers is 7. Find the lowest of the three numbers (a) 4 (b) 2 (c) 3 (d) 6

25. The total sample space in a toss of a fair die is (a) 6 (b) 2 (c) 3 (d) 36

26. The name of a triangle with a pair of adjacent sides equal is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

27. The line drawn across parallel lines is called a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

28. A fair die has \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ faces

29. How many lines of symmetry has a kite? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

30. \_\_\_\_\_\_\_\_\_\_\_\_\_ has an infinite numbers of lines of symmetry

SECTION B – THEORY

Instruction: answer any three questions in this section.

1a. Find the size of the lettered angles in the figure below

120⁰ a⁰

b⁰ c⁰

d⁰ e⁰

f⁰ g⁰

b. Find the value of y in the figure below

30⁰ y⁰

2y⁰

2a. The sum of seven of the angles of a nonagon is 1000⁰. The other two angles are equal to each other. Calculate the sizes of the other two angles.

b. Each exterior angle of a regular polygon is 30⁰. Find the sum of the interior angles of the polygon.

3. The table below is the color of cars used in a particular school.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Colors | Black | Blue | Cream | Multi color | Red | White | Yellow |
| Numbers of cars | 10 | 9 | 12 | 7 | 8 | 15 | 14 |

a. How many cars are in the school?

b. Draw a bar chart to represent the data

c. Identify the popular color

d. The statistical name for the popular color is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

e. Find the probability of selecting the popular color.

4. Kola tossed a fair die 30 times and the number that showed up in each toss was given as follows:

4 2 6 4 5 3 5 4 4 3

5 4 2 4 3 1 3 5 3 5

6 4 6 4 1 5 2 3 5 3

a. Prepare a frequency table for the date

b. Find the mode of the date

c. Determine the median

d. Calculate the mean

5. The following items were bought from the market by a housewife at the price indicated

|  |  |
| --- | --- |
| Items | Amount(#) |
| Beans | 1,800:00 |
| Meat | 1,200:00 |
| Yam | 1,000:00 |
| Rice | 2,000:00 |

Draw a pie chart to illustrate the information.