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CBT ENTRANCE EXAMINATION PAST QUESTIONS

1. The cell as the basic unit of life consist of
a Cell wall and vacuole
b Nucleus and cell wall
c Cytoplasm and nucleus
d Cytoplasm and vacuole

2. The network of double membrane that conveys materials through the cytoplasm is
a Plasma membrane
b Nuclear membrane
c. Mitochondrion
d. Endoplasmic reticulum

3 The respiratory organ of the cockroach is the
a. Air sac
b. Trachea
c. Lung book
d. Lung

4 The excretory product of some reptiles, birds and insects is
a. Urea
b. Urine
c. Ammonia
d. Uric acid

5. The part of the mammalian kidney that stores urine is the
a. Capsule
b. Medulla
c. Pelvis
d. Bladder

6. The properties of endocrine system includes the following EXCEPT
a. Secretion of hormones
b. Transportation of blood to target organs ~
c. Having specific effects
d. Release of secretions into ducts

7. The part of the central nervous system that controls unconscious actions in humans is the
a. Cerebellum
b. Cerebrum
c. Spinal cord
d. Optic nerve

8. What happens when the cilliary muscle of the eye contracts
a. The lens becomes more concave
9. The structures for gaseous exchange in breathing roots are
a. Stomata

b. Lenticels
c. Cuticle
d. Mitochondria

10. The first stable product of photosynthesis is
a. Starch
b. Fructose
c. Glucose
d. Sucrose

11. An example of trace element is
a. Potassium
b. Calcium
c. Magnesium
d. Copper

12. A mutualism type of relationship is different from parasitic relationship because in mutualism,
a. Both organisms involved benefits
b. None of the organisms benefits or harm each other
c. Both organisms harm each other
d. Only one of the organism is harmed

13 Measurement of height and weight of students in a class show
a. Discontinuous variation
b. Continuous variation
c. Shortness is more prevalent
d. Fatness is less prevalent

14. Which of the following diseases can be inherited?
a. Pneumonia
b. Whooping cough
c. Sickle cell anaemia
d. Malaria

15. Replication of DNA molecule is catalyzed by an enzyme called
a. Polymerase
b. Ptyalin
c. Amylase
d. Pepsin

16. Who proposed the theory of evolution?
a. Darwin
b. Lamarck
c. Aristotle
d. Linnaeus

Choose from the option the one that ***most nearly opposite in meaning*** to the word in italics and bold
17. Since mortality is the lot of man, argued the preacher, we must all accept

death with ***equanimity***

a. Concern
b. Uncertainty
c. Serenity
d. Anxiety

Choose from the option the one that ***most nearly opposite in meaning*** to the word in italics and bold
18. We admire the minister's ***passionate and dynamic*** characteristics

a. Cruel and passive
b. Kind and forceful
c. Passive and charmless
d. Charmless and cruel

Choose from the option the one that ***most nearly opposite in meaning*** to the word in italics and bold
19. I was advised to stay away from cities that are ***ravaged*** by crime

a. Spoilt by
b. Free from
c. Suffering from
d. Haven of

Choose from the option the one that ***most nearly opposite in meaning*** to the word in italics and bold
20. You can use ***lethal*** means if necessary to stop dangerous characters from molesting innocent citizens

a. Fatal
b. Cruel
c. Harmless
d. Soft

Choose from the option the one that ***most nearly opposite in meaning*** to the word in italics and bold
21. His intention was not actually to punish the villagers and in any case he is now making moves to ***pacify*** them

a. Placate
b. Ridicule
c. Appease
d. Annoy

Choose from the option the one that ***most nearly opposite in meaning*** to the word in italics and bold
22. If you are really keen on immediate result, you just have to adopt thi ***pragmatic*** approach

a. Practical
b. Unrealistic
c. Opportunistic
d. Sensible

Choose from the option the one that ***most nearly opposite in meaning*** to the word in italics and bold
23. My friend was reduced to ***beggary*** by various ill-advised business deal

a. Affluence
b. Penury

c. Influence
d. Poverty

Choose from the option the one that ***most nearly opposite in meaning*** to the word in italics and bold
24. Measures were taking to ***authenticate*** the number of the booklets received
a. Reaffirm
b. Discredit
c. Discountenance
d. Count

Choose from the option the one that ***most nearly opposite in meaning*** to the word in italics and bold
25. He urged other ***progressive*** in the country to join forces with his association
a. Radicals
b. Conservatives
c. Pessimists
d. Activists

Choose from the option the one that ***most nearly opposite in meaning*** to the word in italics and bold
26. Adama's father simply ***condoned*** her bad habits instead of punishing her appropriately
a. Opposed
b. Blamed
c. Accepted
d. Forbade

Choose from the option the one that ***most appropriately*** completes the sentence
27. He has been away from his family for a long time. He is seriously _____
a. Depressed
b. Elated
c. Lonely
d. Ostracized

Choose from the option the one that ***most appropriately*** completes the sentence
28. He was dismissed because he _____ the cheque
a. Must not issue
b. Ought not to issue
c. Should not have issued
d. Will have issued

Choose from the option the one that ***most appropriately*** completes the sentence
29. Is there _____ chalk in the classroom?
a. A
b. Any
c. Many
d. Plenty

30. Which of the following statements correctly defined the boiling point of a liquid? The temperature at which the

a. Saturated vapour equals the atmospheric pressure
b. Molecules leave the liquid at a rate equal to the rate at which they return
c. Molecules leave the liquid at a rate higher than that which they return
d. Molecules leave the liquid at a rate lower than the rate at which they return

31. X-rays and infrared rays are both electromagnetic waves. Which common properties do the waves have? Both waves are
a. Longitudinal
b. Have the same frequency
c. Have the same wave length
d. Travel at the same speed and vacuum

32. The image formed by a concave mirror is real, inverted and magnified when the object is placed
a. At the focus
b. At the centre of the curvature
c. Beyond the centre of the curvature
d. Between the centre of curvature and focus

33. Complementary colors are those which
a. Have the same reflection index
b. Have the same wavelength
c. Add up to produce black light
d. Add up to produce white light

34. The phenomenon by which two light atomic nuclear combine to form a heavy nuclide with the release of energy is known as
a. Radioactivity
b. Nuclear fusion
c. Nuclear fission
d. Chain reaction

35 Water is unsuitable for use as a thermometric liquid because it
a Expand unevenly between 0°C and 4°C
b. Has narrow temperature range
c. Has a concave meniscus
d. Maintain a fixed density

36. The crackling noise produce by aluminum roofing sheet on a house during hot sunny day is a result of
a. Thermal equilibrium of the sheet
b. Conduction of heat by the sheet
c. Contraction of the sheet
d. Expansion of the sheet

37. Which of the following unit is the SI unit heat capacity
a. $J\,kg^{-1}$
b. $J\,kg^{-1}\,K^{-1}$

c. $J\,k^{-1}$
d. $Jg^{-1}\,K^{-1}$

38. Which of the following concepts is a method of heat transfer that does not require a material; media
a. Conduction
b. Radiation
c. Diffusion
d. Convection

39. The pressure applied to an enclosed fluid to one end is transmitted equall throughout the fluid and to the container walls. This principle is
a. Archimedes' Principle
b. Bernoulli's Principle
c. Pascal's Principle
d. Heisenberg's Principle

40. What type of wave is emitted by a loudspeaker?
a. Transverse
b. Longitudinal
c. Gamma
d. Radio

41. Thermal energy added or removed from a substance that changes the state of the substance is called
a. Latent heat

42. The Nigerian minister of Labour and Productivity is
a. Dr. Chris Oyakilome
b. Dr. Chris Solomon.
b. Dr. Chris Ngige
c. Dr. Festus Keyamo

43. One of the following is an example of output device
a. Monitor
b. Keyboard
c. Scanner
d. Mouse

44. All the following are input devices EXCEPT
a. Joystick
b. Microphone
c. Printer
d. Light pen

45. If a computer has more than one processor, then it is known as
a. Uniprocessor
b. Multiprocessor

c. Multithread
d. Multiprogramming

46. The first generation computer consist of
a. Vacuum tubes and magnetic drums ~
b. Integrated circuits
c. Magnetics tape and transistors
d. All of the above

47. RAM means
a. Random Accessory Methods
b. Random Access Memory
c. Rational Access Memory
d. Remote Access Memory

48. The following are examples of storage device EXCEPT
a. Floppy disk
b. Hard Drive Disk
c. Monitor
d. Compact disk

49. _____ is an example of operating system
a. CPU
b. Processor
c. Monitor
d. Microsoft windows

50. The sum of 12 and one third of n is 1 more than twice n. Express the statemept in the form an equation
a. $12n - 6 = 0$
b. $3n - 12 = 0$
c. $2n - 35 = 0$
d. $5n - 33 = 0$

51 If $\cos(x + 40) = 0.0872$, what is the value of x?
a. 85°
b. 75°
c. 65°
d. 45°

52. A car is travelling at a constant rate of 45km per hour. The distance travelled car from 10.40am to 1.00pm is
a. 165km
b. 150km
c. 120km
d. 105km

53. What is the value k which will make the expression $4k^2 + 12k + k$ a perfec

square?

a. 5
b. 7
c. 8
d. 9

54. The least number of four digits which is a perfect square is

a. 1204
b. 1024
c. 1402
d. 1420

55. The population of a country increased by an average of 2% per year from 2000 to 2003. If the population of this country was 2,000,000 on December 31, 2003, then the population of this country on January 1, 2000, to the nearest thousand would have been

a. 1846000
b. 1852000
c. 1000000
d. 1500000

56. Mr. Jones sold two pipes at N1.20 each. Based on the cost, his profit on one was 20% and loss on the other was 20% on the sale of the pipes, he

a. Broke even
b. Lost 4%
c. Gained 4%
d. Lost 10%

Instruction: ***Choose the best answer***

57. I come ..... Italy.

a. to
b. from
c. at
d. in

Instruction: ***Choose the best answer***

58. ..... do you go to the gym? - Twice a week.

a. How often
b. Where
c. How
d. Why

Instruction: ***Choose the best answer***

59. I like .....in my spare time.

a. reading
b. read
c. to read
d. to reading

Instruction: ***Choose the best answer***

60. Ann, how are you?
a. I'm a nurse
b. I'm fine, thanks. And you?
c. I am working.
d. Good

Instruction: ***Choose the best answer***
61 Whose key is that?
a. It's of Cate.
b. It's Cate's
c. It's Cate.
d. It's to Cate.

Instruction: ***Choose the best answer***
62. I ..... born in 1992
a. was
b. am
c. were
d. is

Instruction: ***Choose the best answer***
63. His office is on the first .....
a. level
b. ground
c. stage
d. floor

Instruction: ***Choose the best answer***
64. (On the phone) Hello.Juliet .....
a. speak
b. speaking
c. talking
d. talk

Instruction: Choose from the options the one that is ***most nearly opposite in meaning*** to the word in underline
65. Most banks that were <u>solvent</u> at the beginning of the reform have gone.
a. Bankrupt
b. Buoyant
c. Exile
d. Fraudulent

Instruction: Choose from the options the one that is ***most nearly opposite in meaning*** to the word in underline
66. When result is out, students who are sure of themselves are <u>eager</u> to go and check theirs while the dullards are
a. Absent
b. Ashamed
c. Enthusiastic
d. Reluctant

Instruction: Choose from the options the one that is ***most nearly opposite in meaning*** to the word in

underline

67. Anyone who wants to keep friends must be mild mannered No one want to be near a person who is always very

a. Abusive
b. Annoying
c. Arrogant
d. Intelligent

Instruction: Choose from the options the one that is **most nearly opposite in meaning** to the word in underline

68. A slothful student is sure to fail, the_____ ones pass at a sitting

a. Brilliant
b. Diligent
c. Famous
d. Strong

Instruction: Choose from the options the one that is ***most nearly opposite in meaning*** to the word in underline

69. Although he is usually well-informed about most matters, he seems to be_____of recent develops in the senate

a. Abreast
b. Absent-minded
c. Aware
d. Ignorant

Choose from the options A to D the one that is nearest in meaning to the expression in bold

70. The ***myriad*** problems of modern life make the attainment of happiness difficult

a. Compounded
b. Many
c. Much
d. Multiple

From the words lettered A to D, choose the word that best completes each of the following sentences

71. The class prefects____of the quarrel is different from yours

a. Statement
b. Account
c. Outline
d. Summary

From the words lettered A to D, choose the word that best completes each of the following sentences

72. But for the timely _____of the police, there would have been a riot

a. Interference
b. Intrusion
c. Intervention
d. Interruption

From the words lettered A to D, choose the word that best completes each of the following sentences

73. I refused to _____ my statement because it was true

a. Retract
b. Make
c. Withhold
d. Voice

From the words lettered A to D, choose the word that best completes each of the following sentences
74. We are waiting to hear the weather _____ for tomorrow
a. Broadcast
b Declaration
c Report
d Forecast

From the words lettered A to D, choose the word that best completes each of the following sentences
75. I will tell you the secret if you promise not to _____ it
a. Divulge
b. Show
c. Scatter
d. Relay

76. Find the 8th of the AP -3, -1, _____
a. 13
b. 11
c. -8
d. -11

77. While doing his physics practical, Idowu recorded a reading as 1.12cm instead of 1.21cm. Calculate his percentage error
a. 1.17%
b. 6.38%
c. 7.44%
d. 8.05%

78. If N varies directly as M and N = 8 when M = 20, find M when N = 7
a. 13
b. 15
c. 17.5
d. 18.5

79. The square root of the sum of X and 6 is equal to 4 Find the value of X
a. 2
b. 3
c. 10
d. 22

80. Find the simple interest on #2970.00 in 12 years at the rate of 6%
a. 4125.00
b. 2238.40
c. 2138.40
d. 2069.20

81. Express 0.00254 in standard form
a. 2.54×10^{1}
b. 2.54×10^{2}
c. 2.54×10^{3}
d. 2.54×10^{4}

81. The length of a chord is 24cm if the distance of the chord is 8cm from the centre of the circle, find the

radius of the circle (correct to 2 decimal place)

a. 12.65cm
b. 14.42cm
c. 20.50cm
d. 22.53cm

82. A pair of die is tossed once. What is the probability of obtaining either an even number or a prime number.

a. 2
b. 3
c. 1
d. 4

83. Which of the following does not exist freely in air

a. Carbon
b. Oxide
c. Nitrogen
d. Oxygen

84. The main impurity in iron ore is

a. Silicon (iv) oxide
b. Carbon (iv) oxide
c. Calcium oxide
d. Calcium trioxosilicate

85. Which of the following is an insulator?

a. Aluminum
b. Plastic
c. Copper
d. Iron

86. Periodic table has the same

a. Atomic number
b. Number of shells
c. Number of valence electrons
d. Atomic mass

87. Which of the following is not a vector quantity?

a. Momentum
b. Force
c. Velocity
d. Temperature

88. Which of the following is not a consequence of a force field?

a. Weight
b. Surface tension
c. Gravitational pull
d. Magnetic force

89. Which of the following is used to determine the relative density of the acid in a car battery?

a. Hypsometer
b. Hygrometer

c. Manometer
d. Hydrometer

Which one of the following will the taste buds of the tongue not distinguish?
a. Salt
b. Quinine
c. Onion
d. Sugar

90. The number of thoracic vertebra in human being is
a. 12
b. 5
c. 7
d. 4

91. What differentiates atlas vertebra from all other cervical vertebra is the possession of
a. Large, flat transverse processes an odontoid fossa and a transverse ligament
b. Bifid spine only
c. Trifid transverse processes
d. An odontoid peg

92. The only similarity between red blood cells and white blood cells is that the both
a. Are disc-shaped
b. Contain nucleus
c. Are alive
d. Live for about 120days

93. Territoriality is a phenomenon among
a. Lower organism
b. Animal and plant
c. Males animals with a group of females
d. Plants of different species

94. The group molusca is characterized by the presence of
a. Joint appendages
b. Star- shaped bodies
c. Backbones
d. Soft, non- segmented bodies

95. Raw material required by green plants to manufacture their food are
a. Mainly fluid
b. Living materials
c. Mainly gases
d. Inorganic substances

96. Which of the following infections is unlikely to respond to antibiotic treatment?
a. Typhoid fever
b. Ringworm
c. Meningitis
d. Tetanus

97. Current Director –General of WHO is

a. Dr Tedros Adhanom Ghebreyesus
b. Dr Margret Chan
c. Dr Bruno Roelants
d. Dr Adnan Tetros

98. The Kaduna state Deputy Governor is
a. Dr. Hadiza Sabo Balarabe
b. Dr. Khadija Sagir Balarabe
c. Dr. Hadiza Sabuwa Balarabe
d. Dr. Hadiza Sabuwa Bakura

100. "ABUTH" means
a. Ahmadu Bayero University Teaching Hospital
b. Ahmed Bello University Teaching Hospital
c. Ahmadu Bello University Teaching Hospital
d. Ahmadu Bello Universal Teaching Hospital

101. TSA means
a. Tertiary Single Account
b. Treasury Single Account
c. Treasury Singular Account
d. Tertiary Singular Account

102. The full meaning of CBT is_____
a. Computer Based Test
b. Computer Based Technology
c. Curriculum Based Test
d. Curriculum Based Technology

103. The Speaker of House of Representative is
a. Honorable Femi Gbajabiamila
b. Honorable Ahmed Lawan
c. Honorable Femi Gbaje
d. Honorable Femi Ransome Kuti

104. The current INEC Boss is_____
a. Prof. Mahmood Isa
b. Prof. Mahmood Jega
c. Prof. Mahmood Yakubu
d. Prof. Maman Jega

105. The exchange of genes between homologous chromosomes is called
a. Test cross
b. Back cross
c. Crossing over
d. Mutation

106. Which of the following characters is NOT sex linked
a. River blindness
b. Baldness
c. Haemophilia
d. Colour blindness

107. The hereditary material of the cell is
a. The RNA
b. Protein
c. The DNA
d. Carbohydrate

108. Which force is most important in allowing ammonia to dissolve in water?
a. Hydrogen bonding
b. Dipole-induced dipole
c. Ion-dipole
d. Dipole-dipole

109. Which one of the following substances will form strong hydrogen bonds?
a. HCOOH
b. CH_3Cn
c. CCl_4
d. SiH4

110. Which one of the following statements regarding a catalyst is not correct
a. An enzyme is a catalyst that only binds certain substrates
b. An enzyme is a protein that is highly efficient catalyst for one or more chemical reactions in a living system
c. Catalysts increase the rate of a reaction by altering the mechanism, thereby increasing the activation energy
d. Catalysts do not alter the equilibrium constant for a chemical reaction

111. Which one of the following statements most accurately relates the properties of a liquid at room temperature with its vapor pressure?
a. A liquid with a low vapor pressure will probably have a high surface tension and a high boiling point
b. A liquid with a low vapor pressure will probably have a low surface tension and a high boiling point.
c. A liquid with a high a vapor pressure will probably have a low surface tension and a high boiling point
d. A liquid with a low vapor pressure will probably have high intermolecular forces and a low boiling point

112. What happens when a catalyst is added to a system at equilibrium?
a. The reaction follows an alternative pathway of lower activation energy
b. The heat of reaction decreases
c. The potential energy of the reactants decrease
d. The potential energy of the products decrease

113. Which one of the following species contains an unpaired electron?
a. N_2
b. N_2O
c. NO_2
d. NO_3^-

114. A crate of mass 8.0kg requires 72J of energy to push it through a horizontal distance of 6.0m. Neglecting frictional force, calculate the magnitude of the applied force on the state.
a. 5.1 N

b. 9.0 N
c. 12.0 N
d. 36.0 N

115. A boy standing 620m in front of a tall building shouts and receives the echo soon afterwards. How long does the sound travel in air? (Speed of sound in air =330ms^{-1})
a. 1.9 s
b. 2.0 s
c. 3.8 s
d. 4.0s

116. Light of frequency 5.00×10^{14} Hz travels from a glass prism into air. Its speed is____
a. Decreases
b. Increases
c. Decreases and then increases
d. Remains the same

117. What happens to the wavelength and frequency respectively of an electromagnetic wave as it moves from air into glass?
a. Increases; remains the same
b. Increases; decreases
c. Decreases; remain the same
d. Decreases; increases

118. Which of the following mirrors is mostly used for the construction of a searchlight?
a. Convex mirror
b. Plain mirror
c. Parabolic mirror
d. Spherical mirror

119. Which of the following sets of colours contain primary colours of the ligh only?
a. Red, blue, green
b. Red, yellow, orange
c. Violet, indigo, blue
d. Blue, yellow, green

120. Whenever the frequency of a vibrating body coincides with the natural frequency of an external vibrating body then the system is said to be in
a. Free oscillation
b. Damped oscillation
c. Resonance
d. Forced vibration

121. Vitamin C deficiency result in
a. Beri-beri
b. Scurvy
c. Pellagra
d. Ricket

122. Growth include the following processes except
a. Differentiation
b. Enlargement

c. Meiosis
d. Mitosis

123. Many disease caused by bacteria are treated and cured using
a. Antibiotics
b. Antiseptics
c. Antigen
d. Antibodies

124. Which of the following adapt the aorta to the high pressure of blood from the heart
a. Thin walls
b. Membranes
c. Narrow lumen
d. Thick elastic wall

125. Which one of the following species has the same electron configuration a the Aluminum (Al^{3+}) cation?
a. F
b. Cl
c. S_i
d. O

126. Which one of the following elements has valence electrons in the n = 3 shell?
a. Beryllium
b. Oxygen
c. Silicon
d. Neon

127. Which one of the following species contains a polar covalent bond?
a. Oxygen
b. Carbon dioxide
c. Sodium chloride
d. Magnesium floride

128. The two (2) prominent rivers included in the Nigerian coat of arms are;
a. Osun and Ogun
b. Limpopo and Zambesi
c. Senegal and Congo
d. Benue and Niger

129. The first woman Managing Director of Nigeria Ports Authority is
a. Hajia Hadiza Bala Usman
b. Hajia Hadiza Bello Usman
c. Hajia Habiba Bala Usman
d. Hajia Bilkisu Bello Usman

130. The full meaning of the acronym AIDS means
a. Assisted Invitro Delivery Service
b. Acquired Infections Disease Syndrome
c. Acquired Immune Deficiency Syndrome
d. Acquired Immune Disease Syndrome

131. The last outbreak of Ebola disease in Africa is in _____
a. Chad
b. South Africa
c. Somalia
d. Democratic Republic of Congo

132. A disease that got its name from the community it originates from in Nigeria is
a. Liver Fever
b. Lassa Fever
c. Lassu Fever
d. Lassma fever

133. Which of these micro-organism causes malaria fever?
a. Anopheles Mosquito
b. Salmonella species
c. Plasmodium species
d. Neisseria species

Choose from the options the one that best completes each Sentence.
134. For such a serious offence, the chairman was lucky to _____ with a fine
a. Get over
b. Get on
c. Get away
d. Get off

Choose from the options the one that best completes each Sentence.
135. The members of the association were just rounding _____ their discussion when the police arrived
a. Up
b. Off
c. Of
d. In

Choose from the options the one that is *most nearly opposite in meaning* to the underlined and bold word in each of the following questions
136. A gully, which is a **natural** phenomenon, could not be mistaken for a tunnel, which is____
a. Imitative
b. Modern
c. Artificial
d. Usual

Choose from the options the one that is *most nearly opposite in meaning* to the underlined and bold word in each of the following questions
137. Too many **theories** will not help us, we need to be_____
a. Practical
b. Hypothetical
c. Antithetical
d. Conceptual

Choose from the options the one that is *most nearly opposite in meaning* to the underlined and bold word in each of the following questions
138. The **insignificant** effort he made yielded____ results

a. Tremendous
b. Exorbitant
c. Unimaginable
d. Little

Choose from the options the one that is *most nearly opposite in meaning* to the underlined and bold word in each of the following questions

139. The motorist said the splashing of the water was____not **deliberate**
a. Incidental
b. Intentional
c. Planned
d. Accidental

Choose from the options the one that is *most nearly opposite in meaning* to the underlined and bold word in each of the following questions

140. The shopkeeper will **reject** your offer if you do not_____ his terms
a. Allow
b. Commend
c. Accept
d. Decline

Choose from the options the one that is *most nearly opposite in meaning* to the underlined and bold word in each of the following questions

141. Most people thought the accused would be **convicted** but surprisingly he was _____
a. Released
b. Acquitted
c. Pardoned
d. Reprimand

142. Factorise $ab + b^2 - ac - bc$
a. $(b-c)(a-c)$
b. $(b+a)(b+c)$
c. $(b-c)(a+b)$
d. $(b+c)(a-b)$

143. $54 - 6 \div 2 + 6 = ?$
a. 6
b. 24
c. 27
d. 57

144. Which of the following is a factor of $x^2 - 5x - 6$?
a. $(x+2)$
b. $(x-6)$
c. $(x-3)$
d. $(x-2)$

145. Express 20,000 + 3,400,000 in scientific notation,
a. 3.42×10^6
b. 3.60×10^6
c. 3.42×10^7
d. 3.60×10^7

146. Simplify $10\frac{2}{5} - 6\frac{2}{3} + 3$

a. $6\frac{4}{15}$

b. $6\frac{11}{15}$

c. $7\frac{4}{15}$

d. $7\frac{11}{15}$

147. A sale boy gave a change of #68 instead of #72.Calculate his percentage error

a. 4%

b. $5\frac{5}{9}\%$

c. $5\frac{15}{17}\%$

d. 7%

148. If the total cost of x apples is b Naira, what is a general formula for the cost, in Naira, of y apples?

a. $\frac{b}{xy}$

b. $\frac{x}{by}$

c. $\frac{xy}{b}$

d. $\frac{by}{x}$

Instruction: choose the best answer

149. I promise I---------- study harder.

a. will
b. am going to
c. may
d. must

Choose the one that is **most nearly opposite in meaning** to the underlined word and that will at the same time, correctly fill the gap in the sentence.

150. The Director was full of admiration for his secretary but she treated him with ----------

a. Amusement
b. Freedom
c. Disdain ~
c. Restraint

Choose the one that is **most nearly opposite in meaning** to the underlined word and that will at the same time, correctly fill the gap in the sentence.

151. Mr. Akin is always moody while his wife is forever ----------

a. Cheerful
b. Willing
c. Tender
d. Reluctant

Choose the one that is **most nearly opposite in meaning** to the underlined word and that will at the same time, correctly fill the gap in the sentence.

152. You will succeed fairly well with adolescent if you coax rather than _____ them

a. coarce
b. punish
c. cajole
d. curse

Choose the one that is **most nearly opposite in meaning** to the underlined word and that will at the same time, correctly fill the gap in the sentence.

153. We ended the discussion on amicable terms through we were ---------- to each other at the beginning.

a. Unfamiliar
b. Hostile
c. Unknown
d. Annoying

Choose the one that is **most nearly opposite in meaning** to the underlined word and that will at the same time, correctly fill the gap in the sentence.

154. Hassan's flamboyant lifestyle contrast sharply with Hussaini's ----------altitude.

a. austere
b. serious
c. lawish
d. severe

Choose the word that is nearest in meaning to the underlined word as it is used in the sentences.

155. Don't expect anything but hypocrisy from politicians.

a. Promises
b. Manifestoes
c. Insincerity
d. Dishonesty

Choose the word that is nearest in meaning to the underlined word as it is used in the sentences.

156. There are some drugs that could worsen a particular illness.

a. heal
b. ameliorate
c. detect
d. exacerbate

Choose the word that is nearest in meaning to the underlined word as it is used in the sentences.

157. The king orders are imperative.

a. Lenient
b. Authoritative
c. Necessary
d. Optional

Choose the word that is nearest in meaning to the underlined word as it is used in the sentences.

158. The manager endorsed my travelling documents without delay
a. corrected
b. checked
c. collected
d. approved

Choose the word that is nearest in meaning to the underlined word as it is used in the sentences.

159. The HOD was reluctant to grant my request.
a. disposed
b. Delighted
c. Glad
d. Unwilling

160. The car travelling from Kaduna to Lagos is an example of
a. Random motion
b. Oscillatory motion
c. Translational motion
d. Rotational motion

161. A car travel at an average speed of 100kmh^{-1}, what distance does it cover in 5minutes?
a. 8.3km
b. 3.8 kms^{-1}
c. 8.4km
d. 4.8 kms^{-1}

162.. The efficiency of a machine is 60%.Find in joules the work done by a student using this machine to raise a load of 150kg through a vertical distance of 2.5m(g=10 ms^{-2}).
a. 6.250 Joules
b. 6250 Joules
c. 5260 Joules
d. 5.260 Joules

163. The process by which the new cells are formed for growth repair and replacement in the body is
a. Cytokines
b. Cell division
c. Exocytosis
d. Cell enlargement

164. The layer of skin that is responsible for fingerprint and foot print is the
a. Stratum cornea
b. Stratum granolosum
c. Reticular layer of the dermis
d. Papillary layer of dermis

165. Receptors for the sensation of touch are located in the
a. Stratum corneum
b. Stratum basale
c. Dermis
d. Hypodermis

166. The cells that produce a dark pigment is _____
a. Stratum Basale
b. Melanocytes
c. Keratin
d. Hypodermis

167. The visible portion of hair is _____
a. Hair shaft
b. Arrector pilli
c. Medula
d. Keratin

168. Which of the following blood components has greatest affinity for oxygen and carbondioxide
a. Blood plasma
b. Erythrocytes
c. Lymphocytes
d. Thrombocytes

169. By what process is starch converted to maltose
a. Hydrolysis
b. Condensation
c. Translocation
d. Photosyntesis

170. Ultrafiltration takes place in the
a. Renal vein
b. Medulla
c. Bowman's capsule
d. Loop of Henle's

171. The thyroid gland is located at the base of the
a. Neck
b. Liver
c. Kidney
d. Midbrain

172. Which of the following instrument is used to determine turbidity of water
a. Hygrometer
b. Hydrometer
c. Rain gauge
d. Secci disc

173. Which of the following resources cannot be renewed
a. Air
b. Petroleum
c. Food crops
d. Soil

174. Sam bought a car valued at □7700. One year later the car's value had decreased by 2/7 What is the new value of the car?
a. □2200
b. □5500

c. 9900
d. 4400.

175. What is the speed in m/s of a car that travels 30km in 20 minutes? 15 m/s
a. 150 m/s
c. 250 m/s
d. 25m/

176. Simplify $-(-3)^3$
a. -9
b. 27
c. 9
d. -27

177. Expand and simplify $(3a - 5b)(3a + 5b)$
a. $9a - 25b$
b. $9a + 25b$
c. $9a2 + 25b^2$
d. $9a2 - 25b^2$

178. Factorise and simplify $3a^2 + 3a - 18$
a. $(a + 3)(a - 2)$
b. $3(a - 3)(a + 2)$
c. $3(a - 3)(a - 2)$
d. $3(a + 3)(a - 2)$

179. The lowest temperature on a winter morning was $-8^{\circ}F$. Later that same day the temperature reached a high of $24^{\circ}F$. By how many degrees Fahrenheit did the temperature increase?
a. 3
b. 32
c. 16
d. 24

180. The Nigeria independence day is
a. 1st October 1950
b. 1st October 1991
c. 1st October 1960
d. 1st October 1959

181. Democracy day in Nigeria is
a. 2nd May
b. 29th May
c. 1st June
d. 12th June

182. Worker's Day in Nigeria is
a. 2nd May
b. 5th May
c. 1st May
d. 21st May

183. The name of the world modern Model/Mother of Nursing is_____
a. Florence William
b. Florence David
c. Florence Nightingale
d. Florence Nollingham

184. HIV is the acronym for _____
a. Human Immune Virus
b. Human Immunity -Deficiency Virus
c. Human Immunity Virus
d. Human Immuno-Deficiency Virus

185. Freedom to act as one pleases, but within the law is described as _____
a. Citizen's responsibility
b. Civic responsibility
c. Democracy
d. Human right

186. An individual's reflection of needs and desires in life is _____ value.
a. General
b. Group
c. National
d. Personal

187. The quality of being honest and having strong moral principles is_____
a. Commitment
b. Integrity
c. Justice
d. Loyalty

Instruction: Choose the correct interpretation for each of the underlined word
188. His father will be taken to court for ---------- his wife.
a. Beating up
b. Beating off
c. Beating down
d. Beating about

Instruction: Choose the correct interpretation for each of the underlined word
189. What you have done is contrary ------- the school rules.
a. For
b. With
c. To
d. In

Instruction: Choose the correct interpretation for each of the underlined word
190. Get the fire engine! My house is ---------- fire!
a. In
b. For
c. Under
d. On

Choose the correct answer that is **nearest in meaning to the underlined expression** as it is used in the

sentences:

191. Left for me, I would go for the blue skirt.
a. Hate
b. Dislike
c. Pick
d. Prefer

Choose the correct answer that is **nearest in meaning to the underlined expression** as it is used in the sentences:

192. The Emir decorated the soldier for exceptional bravery.
a. Honored
b. Dignified
c. Dishonored
d. Disgraced

Choose the correct answer that is **nearest in meaning to the underlined expression** as it is used in the sentences:

193. The condemned prisoner's sentences was commuted to life imprisonment.
a. Reduced
b. Exchange
c. Increase
d. Retained

Choose the correct answer that is **nearest in meaning to the underlined expression** as it is used in the sentences:

194. The boy is mentally unbalanced, so you should be -------- of his behavior.
a. A tolerant
b. Tolerable
c. Apologetic
d. Careful

Choose the correct answer that is **nearest in meaning to the underlined expression** as it is used in the sentences:

195. The Doctor listened to heart beat with a --------
a. Microscope
b. Scalpel
c. Chronometer
d. Stethoscope

Choose the correct answer that is **nearest in meaning to the underlined expression** as it is used in the sentences:

196. Clara, your writing is difficult to read; you must try to make it ---------
a. Easier
b. Legible
c. Large
d. Eligible

Choose the interpretation that you consider most appropriate for the sentences.

197. Despite their newness on the job, the workers were remunerated rather than handsomely. This means that
a. The salaries were poor
b. Those paid were handsome in appearances

c. The salaries were attractive
d. The workers were paid by handsome accountants

Choose the interpretation that you consider most appropriate for the sentence.

198. The plan to upgrade the dispensary to a general hospital did not materialize. This means that
a. The arrangements did not work out as wished
b. The plan was badly executed
c. It was difficult to obtain the materials
d. The plan did not meet the required specifications

Choose the interpretation that you consider most appropriate for the sentence.

199. The robbery suspect said he made his earlier confessional statement under duress. This means that the he made it
a. Because he was forced
b. In the presence of a judge
c. Because he took an oath
d. With the help of his lawyer

200. The hungry refugees had to queue for their ----------
a. Allowances
b. Needs
c. A supplies
d. Parcels

From the words lettered A to D, choose the word that best complete the following sentence.

201. This land is very dry; we have to ---------- the plants.
a. Wet
b. Sprinkles
c. Shower
d. Water

From the words lettered A to D, choose the word that best complete the following sentence.

202. It is not right for you to insult your parents; you will just ---------- trouble for yourself.
a. Invite
b. Increase
c. Create
d. Produce

From the words lettered A to D, choose the word that best complete the following sentence.

203. The meeting of the warring factions ended on a ---------- note
a. Cautious
b. Prosperous
c. Conciliatory
d. Definite

From the words lettered A to D, choose the word that best complete the following sentence.

204. We cannot tell which of the historian's ---------- is true.
a. Narrations
b. Versions
c. Comments
d. Suggestions

205. Which energy transfer most likely occurs between organisms in the food web?
a. From owl to fox
b. From rabbit to fox
c. From sparrow to grass
d. From mouse to grasshopper

206. Which one of the following is true of glycolysis?
a. It is the first stage of aerobic respiration, not anaerobic respiration
b. It result in the production of either lactic acid or ethanol
c. It produces more ATP than the Krebs cycle.
d. It occurs in the cytosol of a cell

207. What percentage of the atmosphere consists of carbon dioxide?
a. 0.3%
b. 1%
c. 5%
d. 7%

208. What percentage of the atmosphere consists of carbon dioxide?
a. 0.3%
b. 1%
c. 5%
d. 7%

209. The chromosomes responsible for characteristics other than sex are known by which of the following terms?
a. Ribosomes
b. Lysosomes
c. Autosomes
d. Spermatocytes

210. In human, a chemical barrier to help keep pathogens out of the internal environment includes
a. Keratin deposited in skin cells
b. The presence of acid in the stomach
c. It produces more ATP than the krebs cycle
d. The production of interferon by virus – infected cells

211. Each of the following is a cell organelle except one. Which one of these is NOT a cell
a. Mitochondrion
b. Lysosome
c. Cytoplasm
d. Endoplasmic reticulum

212. From which of the following categories of substances are hormones NO composed from?
a. Proteins
b. Peptides
c. Nucleic acids
d. Steroids

213. The process by which an amino acid loses its amino group is called:
a. Hydration
b. Deamination
c. Oxidoamination
d. Dehydration

214. In the first stage of photosynthesis, light energy is used to:
a. move water molecules
b. denature chlorophyll
c. split water
d. produce carbohydrates

215. Osmoregulation is concerned with:
a. Excretion
b. Ionic regulation
c. Control of the body's water content
d. Carbon dioxide regulation

216. Which of the following is not an arachnid?
a. Lobster
b. Scorpion
c. Black widow spider
d. Tick

217. Which of the following is not found in blood?
a. Fibrinogen
b. Glucose
c. Urea
d. Glycogen

218. Water molecules enter plant epidermal cells by:
a. Osmosis
b. Active transport
c. Translocation
d. Transpiration

219. Cholesterol, testosterone, and estrogen are all examples of:
a. Proteins
b. Steroids
c. Nucleic acids
d. Alcohols

220. In mammals, the primary function of the loop of Henle is:
a. Reabsorption of water
b. Water secretion
c. Ammonia secretion
d. Bicarbonate reabsorption

221. The bacteria which cause dental cavities in humans break down sugars, releasing what chemical that causes tooth destruction?
a. Acids
b. Bases
c. Enzymes

d. Monosaccharides

222. All of the following are characteristic of amphibians EXCEPT:
a. Moist skin
b. The absence of scales
c. Metamorphosis
d. Live in salt water

223. Which of the following joints is formed by the articulation of the tibia, the malleolus of the fibula, and the convex surface of the talus?
a. Ankle
b. Knee
c. Elbow
d. Wrist

224. Which of the following salt containing ions are generally insoluble in cold water?
a. Acetate
b. Ammonium
c. Potassium
d. Phosphate

225. Factors that affect the rate of a chemical reaction include which of the following
i. Frequency of collisions of reactant particles
ii. Kinetic energy of collisions of reactant particles
iii. Orientation of reactant particles during collisions
a. ii only
b. i and ii only
c. i, ii and iii
d. ii and iii only.

226. Which conditions are required to obtain a good yield of carboxylic acid when ethanol is oxidized using Potassium Dichromate (VI) $K_2Cr_2O_7$ (aq)?
I Add sulfuric acid
II Heat the reaction mixture under reflux
III Distill the product as the oxidizing agent is added
a. I and II only
b. I and III only
c. II and III only
d. I only

227. Diamond cannot be used
a. In making bicycle chains
b. As abrasives
c. In cutting glass and metals
d. As dies drawing wires

228. What volume of 0.5 MH^1SO^4 will exactly neutralize 20cm of 0.1 MNaOH solution
a. $2.00cm^1$
b. $5.0cm^1$
c. $6.8cm^1$
d. $8.3cm^1$

229. The bones of the legs of a six year old boy are observed to be weak and crooked. Which of the following elements were deficient in his mother's diet a

pregnancy.

a. Sodium and Iron
b. Iron and Manganese
c. Calcium and Phosphorus
d. Magnesium and Sulphur

230. Given that $P\ ^{1}?_{3} = \frac{3\ ?\ \bar{q}}{r}$

a. $q = p\ ?\ \bar{?}?$
b. $q = p^3r$
c. $q = pr^3$
d. $q = pr$

231. If $23x + 101x = 130x$. Find the value of x

a. 7
b. 6
c. 5
d. 4

232. Factorize $(2x + 3y)^2 - (x - 4y)^2$

a. $(3x - y)(x + 7y)$
b. $(3x + y)(2x - 7y)$
c. $(3x + y)(x - 7y)$
d. $(3x - y)(2x + 7y)$

233. Find the 7^{th} term of the sequence 2, 5, 10, 17, 26.....

a. 37
b. 48
c. 50
e. 63

234. In a family of eight (8) all the children are girls which of following reasons correctly explains this

a. The woman cannot produce male children
b. The man has a low sperm count
c. The Y component of the man's sex chromosomes was always involve
d. The X component of the man's sex chromosomes was always involve

235. The name of the enzyme that catalyzes the conversion of glucose to glucose 6-phosphate at the beginning of glycolysis

a. Phosphor Fructokinase
b. Glucose Isomerase
c. Hexokinase
d. Glucose 6-kinase

236. The following functions are associated with the liver except
a. Regulation of blood sugar
b. Production of heat
c. Production of calcium
d. Production of vitamin D

237. Growth include the following processes except
a. Differentiation
b. Enlargement
c. Meiosis
d. Mitosis

238. An intelligent guess to give a reasonable explanation for a particular observation is known as
a. Prediction
b. Hypothesis
c. Experiment
d. Theory

239. The following characteristics are common to both plants and animals EXCEPT
a. Respiration
b. Reproduction
c. Excretion
d. Digestion

240. The tissue that are responsible for the transport of manufactured food and water in plant are called
a. Epithelial tissue
b. Vascular tissue
c. Transport tissue
d. Meristematic tissue

241. The present method of classifying and naming of living organism is based on the work of
a. Aristotle
c. Carolus Linnaeus
d. Robert Hooke
e. Albert Einstein

242. In which of the following level of classification are the members most similar
a. Order
b. Family
c. Genus
d. Species

243. Algae is a member of the phylum
a. Thallophta
b. Bryophyte
c. Ptendophyte
d. Spermatophyte

244. The following characteristics are common to both gymnosperm and angiosperm

a. They bear seed
b. They bear flower
c. They are ever green
d. They are vascular plant

245. Modification of mouth part to form proboscis is a feeding adaptation foun in
a. Leeches
b. White flies
c. Butterflies
d. Mosquitoes

246. Which of the following organisms exhibit intracellular and extracellular digestion?
a. Hydra
b. Euglena
c. Paramecium
d. Grasshopper

247. _____ is an organelle in the cell that stores hereditary information and controls activities of the cell
a. Mitochondria
b. Nucleus
c. Chloroplast
d. Golgi-apparatus

248. Gastric juice contains two important enzymes which are
a. Pepsin and Renin
b. Renin and Maltase
c. Pepsin and Ptyalin
d. Pepsin and Lipase

249. Which of the following option is the correct sequence of the path of the small intestine in the process of digestion
a. Ilium - Jejunum - Duodenum
b. Duodenum – Ilium – Jejunum
c. Duodenum – Jejunum – Ilium
d. Jejunum – Duodenum – Ilium

250. In digestion, the end product of protein is called
a. Amino acid
b. Polypeptide
c. Glucose
d. Glycerol

251. The process by which absorbed food becomes part of the body is
a. Absorption
b. Assimilation
c. Deamination
d. Digestion

252. In open circulatory system, the heart pumps blood out into blood vessels which branches and open into a space in the body called
a. Capillaries

b. Haemocoeles
c. Ventricles
d. Auricles

253. Transport of water in the xylem tissue is due to the following EXCEPT
a. Root pressure
b. Leaf pressure
c. Capillary action
d. Transpiration

254. The loss of water from the leaf surface of plants by evaporation is called
a. Translocation
b. Transition
c. Transpiration
d. Transportation

255 _____ are essential organic substance that are needed by animals in trace amount for healthy function of their cell
a. Protein
b. Vitamins
c. Carbohydrate
d. Lipids

256. The first vertebrae to venture out of water and live on land are
a. Amphibians
b. Reptile
c. Area
d. Mammals

257. A good method of disposing refuse is by throwing them
a. Inside pit to form compose
b. Into gutters when it is raining
c. Into nearby bushes
d. Into uncompleted building

258. The effects of soil pollution include the following except
a. Loss of soil organism
b. Increase nutritional value of the soil
c. Loss of live hood to farmers
d. Poor plant yield

259. An example of non –metal is
a. Carbon
b. Copper
c. Gold
d. Silver

260. The increase in size of an organism due to increase in the number of its cells is known as
a. Development
b. Growth
c. Transition
d. Transformation

261. The following are secondary sources of energy EXCEPT

a. Coal
b. Heat
c. Sun
d. Water

262. Which of the following is positive effect of science and technology?
a. Deforestation
b. Erosion
c. Fake drugs
d. Reduced pollution

263. Which of the following is an examples of non –contact force
a. Electric
b. Friction
c. Pull
d. Push

264. Which of the following group of item can be found in a first aid box?
a. Antibiotics capsule, water and cotton wool
b. Bandage, Elastoplast and plate
c. Bandage, razor blade and flint
d. Iodine, lint and antibiotic

265. Contamination of water and air in our environment is referred to as
a. Decomposition
b. Infection
c. Pollution
d. Sewage

266. The pollutant released by automobile is
a. Apply analgesics
b. Learn to use first aid kit
c. Save life
d. Practice being a doctor

267. Which of this items is used for personal cleanliness
a. Cream
b. Jewelry
c. Perfume
d. Soap

268. Which of the following is a skin disease a
a. Cough
b. Eczema
c. Malaria
d. Obesity

269. The administration of any chemical substance in manner which deviate fro the approved medical patterns best defines drug
a. Abuse
b. Addiction
c. Dependence
d. Tolerance

270. The inability of a person to see far object is referred to as

a. Astigmatism
b. Cataract
c. Myopia
d. Hyper myopia

271. Birds which swim in water have____
a. Webbed feet
b. Long beaks
c. Toes with claws
d. Broad claws

272. Which of the following is not a plant hormone?
a. Cytokinin
b. Ethylene
c. Gibberellin
d. Insulin

273. Which of the following cell constituents is not common in both plants and animals?
a. Mitochondria
b. Chloroplast
c. Ribosomes
d. Golgi apparatus

274. Which of the following is responsible for converting milk into curd?
a. Virus
b. Yeast
c. Fungi
d. Bacteria

275. Ordinary table salt is sodium chloride what is baking soda?
a. Potassium chloride
b. Potassium carbonate
c. Potassium hydroxide
d. Sodium bicarbonate

276. In which part of plant does photosynthesis generally takes place?
a. Leaf and other chlorophyll bearing parts
b. Steam and leaf
c. Roots and chlorophyll bearing parts
d. Bark and leaf

277. Pollination is best defined as?
a. Transfer of pollen from anther to stigma
b. Germination of pollen grains
c. Growth pollen tube to ovule
d. Visiting flowers by insects

278. Which of the following animals has both exoskeletal and endo skeletal structure?
a. Tortoise
b. Frog
c. Jelly fish
d. Fresh water mussel

279. Pyramid of energy in ecosystem is____
a Always upright

b. Always inverted
c. Mostly upright
d. Mostly inverted

280. Which state of malarial parasite is infective to man?
a. Gametocyte
b. Merozoite
c. Crypto-Merozoite
d. Sporozoite

281. Plants that grow in saline water are called_____
a. Halophytes
b. Hydrophytes
c. Mesophytes
d. Thallophytes

282. Photosynthesis take place faster in
a. Yellow light
b. White light
c. Red light
d. Darkness

283. Which of the following is multicellular?
a. Euglena
b. Amoeba
c. Spirogyra
d. Chlamydomonas

284. Which of the following is used in measuring atmospheric pressure?
a. Barometer
b. Hydrometer
c. Hygrometer
d. Thermometer

285. An example of poikilothermic organism is_____
a. Bird
b. Lizard
c. Cockroach
d. Rabbit

286. The soil with the water retaining capacity is_____
a. Loamy soil
b. Clay soil
c. Sandy soil
d. Stoney soil

287. The gas present in the stratosphere which filters out some of the suns ultraviolet light and provides an effective shield against radiation damage to living things is_____
a. Helium
b. Ozone
c. Oxygen
d. Methane

288. The most commonly used bleaching agent is____
a. Alcohol
b. Carbon dioxide
c. Chlorine
d. Sodium chloride

289. The inherited traits of an organisms are controlled by
a. RNA molecules
b. Nucleus
c. DNA molecules
d. Enzymes

290. Which of the following is used as laughing gas
a. Nitrogen oxide
b. Nitrogen dioxide
c. Nitrogen trioxide
d. Nitrogen tetra oxide

291. An alkene can be converted to alkane by____
a. Halogenation
b. Hydrogenation
c. Dehydration
d. Hydrolysis

292. Which of the following pollutant is biodegradable?
a. DDT
b. Plastics
c. Sewage
d. Lead compound

293. Brass in an alloy of copper and_____
a. Zinc
b. Tin
c. Ion
d. Chromium

294. How many carbon atoms are there in benzene ring?
a. 3
b. 6
c. 9
d. 12

295. The rate of reaction usually decrease with a decrease in a concentration of reactant because_____
a. Kinetic energy decreases
b. Temperature increases
c. Speed increases
d. Reactant collision decreases

296. Which of the following is a physical change?
a. Freezing ice cream
b. Dissolving calcium in water

c. Burning kerosene
d. Exposing white phosphorus to air

297. Which of the following metals is purified commercially by electrolysis?
a. Zn
b. Fe
c. Sn
d. Cu

298. The gas that is most useful in protecting humans against solar radiations is____
a. Chlorine
b. Ozone
c. Carbon (iv) oxide
d. Hydrogen sulphide

299. The type of iron that is best suited for welding, making nails, chains and iro rods is_____
a. Pig iron
b. Wrought iron
c. Cast iron
d. Iron pyrites

300. Which of the following gases is commonly found in the atmosphere?
a. Argon
b. Xenon
c. Neon
d. Helium

301. Which of the following is NOT an alkali?
a. NaOH
b. NH_3
c. $Mg(OH)_2$
d. $Ca(OH)_2$

302. Which of the following is an example of a chemical change?
a. Dissolution of salt in water
b. Rusting of iron
c. Melting of ice
d. Separating mixtures by distillation.

303. Which of the following radiation has the highest frequency?
a. Infra-red rays
b. Radio waves
c. Light waves
d. X-rays

304. When a ray of light is incident normally on an air-glass interface, its angle of refraction is____
a. 60
b. 30
c. 150
d. 0

305. Which gas is filled in refrigeration?

a. Acetylene
b. Chlorofluorocarbon
c. Methane
d. Carbon monoxide

306. The efficiency of air-conditioning machine is measured in_____
a. Tonnes
b. CPO
c. Percentage
d. Temperature

307. Which of the following object is used to view distance objects?
a. Barometer
b. Binoculars
c. Microscope
d. Stethoscope

308. The sky appears blue due to which property of light?
a. Scattering
b. Refraction
c. Diffraction
d. Reflection

309. A satellite in a circular orbit around earth with constant speed but not a constant velocity. Which of the following statement best explains why the satellite velocity is not constant?
a. The radius of the satellites orbit is not larger
b. The force on the satellite mass is constantly decreasing
c. The magnitude of the satellite momentum is large
d. The direction of the satellite's motion is constantly changing

310. Which of the following statements describe electric generator?
a. A magnet is rotated through a coil of wire to produce an electric current ~
b. Electric potential in a rotating coil of wire on permanent magnet.
c. An electrical current causes a coil of wire in a magnetic field
d. Forces from a permanent magnet allow a coil wire to rotate

311. Which of the following radiation has the highest frequency?
a. Radio waves
b. Light waves
c. X-rays
d. Infra-red rays

Choose the option that best complete the gap
312. You must ensure the correctness of the information before _____to conclusion
a. Drawing
b. Enabling
c. Learning
d. Jumping

Choose the option that best complete the gap
313. The rocket_____ the target and did not cause any casualty

a. Sensed
b. Reached
c. Missed
d. Exploded

Choose the option that best complete the gap

314. It is desirable to take_____ in any business if you want to make profile
a. Advice
b. Risk
c. Loan
d. Perseverance E. Recourse

Choose the option that best complete the gap

315. They waste all the money on the purchase of some_____ items.
a. Excellent
b. Important
c. Significant
d. Trivial

Choose the option that best complete the gap

316. When he found the wallet his face was glowed but soon it faded as wallet was_____
a. Empty
b. Vacant
c. Recovered
d. Stolen

Choose the option that best complete the gap

317. Can you hear what he is_____?
a. Saying
b. Speaking
c. Telling
d. Talking

318. Our mechanized services contrast sharply with the_____ operation we had before.
a. Electrical
b. Controlled
c. Original
d. Manual

Choose the one that is most nearly opposite in meaning to the underlined word or group of words and that will, at the same time, correctly fill the gap in the sentence.

319. After Ade had listened to some advice, his rigid ideas became more_____
a. Friendly
b. Compromising
c. Flexible
d. Democratic

320. The marathon is a gruelling race.
a. Powerful
b. Exhausting
c. Interesting
d. Distant

Choose the word or group of words that is nearest in meaning to the underlined word or group of words as it is used in the sentence.

321. The works of art in this gallery are <u>invaluable</u>
a. Irreplaceable
b. Precious
c. Priceless
d. Durable

Choose the word or group of words that is nearest in meaning to the underlined word or group of words as it is used in the sentence.

322. The detective was <u>confused</u> when the clues pointed to several suspects.
a. Excited
b. Worried
c. Discouraged
d. Perplexed

Choose the word or group of words that is nearest in meaning to the underlined word or group of words as it is used in the sentence.

323. My father was <u>skeptical</u> about the story I told him.
a. Ignorant
b. Doubtful
c. Embraced
d. Lukewarm

324. Which of the following is an examples of non –contact force
a. Electric
b. Friction
c. Pull
d. Push

325. The force of attraction between the earth and objects on it is
a. Magnetic
b. Centripetal
c. Frictional
d. Gravitational

326. The energy possessed by a falling object is _____ energy
a. Gravitational
b. Kinetic
c. Light
d. Potential

327. The planet in the solar system are separated from one another by
a. Axis
b. Outer space
c. Satellite
d. Sun

328. Which of the following chemicals serves as a cleaning agent
a. Calcium hypochloride
b. chlorine
c. Ethylene dichloride

d. Phosphoric acid

329. The component of petroleum are separated by a method known as
a. Chromatography
b. Filtration
c. Fractional distillation
d. Simple distillation

330. The unit of hereditary is
a. Chromosomes
b. Gamete
c. Gene
d. Homozygous

331. Sound is reflected when it
a. Meets an obstacles
b. Moves across two media
c. Moves in a straight line
d. Passes through a small opening

332. The inability of a person to see far object is referred to as
a. Astigmatism
b. Cataract
c. Myopia
d. Hyper myopia

333. Birds which swim in water have_____
a. Webbed feet
b. Long beaks
c. Toes with claws
d. Broad claws

334. Which of the following is not a plant hormone?
a. Cytokinin
b. Ethylene
c. Gibberellin
d. Insulin

335. Which of the following cell constituents is not common in both plants and animals?
a. Mitochondria
b. Chloroplast
c. Ribosomes
d. Golgi apparatus

336. Which of the following is responsible for converting milk into curd?
a. Virus
b. Yeast ~
c. Fungi
d. Bacteria

337. Ordinary table salt is sodium chloride what is baking soda?
a. Potassium chloride

b. Potassium carbonate
c. Potassium hydroxide
d. Sodium bicarbonate

338. In which part of plant does photosynthesis generally takes place?
a. Leaf and other chlorophyll bearing parts
b. Steam and leaf
c. Roots and chlorophyll bearing parts
d. Bark and leaf

339. Pollination is best defined as?
a. Transfer of pollen from anther to stigma
b. Germination of pollen grains
c. Growth pollen tube to ovule
d. Visiting flowers by insects

340. The soil with the water retaining capacity is_____
a. Loamy soil
b. Clay soil
c. Sandy soil
d. Stoney soil

341. The nucleus of an atom consist of_____
a. Electrons and neutrons
b. Electrons and protons
c. Protons and neutrons
d. All of the above

342. The number of moles of solute present in 1kg of a solvent is called its____
a. Molality
b. Molarity
c. Normality
d. Formality

343. The most electronegative element among the following is?
a. Sodium
b. Bromine
c. Fluorine
d. Oxygen

344. The metal used to recover copper from a solution of copper sulphate is
a. Na
b. Ag
c. Hg
d. Fe

345. The oldest rocks in the earth's crust were once molten and came from deep inside the earth. The molten rock called magma, spewed out in volcanic eruptions during the earth's early and solidified into hard rock is called_____
a. Granite
b. Basalt
c. Igneous rock

d. Sedimentary rocks

346. The law which states that the amount of gas dissolve in a liquid is proportional to its partial pressure is_____
a. Dalton's law
b. Gay Lussac's law
c. Hanry's law
d. Raolt's law

347. Which of the following compounds is readily dissolved in water?
a. CuO
b. AgCl
c. Na_2SO_4
d. $CaCO_3$

348. Which of these is used to hasten the ripening of fruits?
a. Ethyne
b. Ethane
c. Ethanol
d. Ethene

349. The rate of reaction usually decrease with a decrease in a concentration of reactant because_____
a. Kinetic energy decreases
b. Temperature increases
c. Speed increases
d. Reactant collision decreases

350. Which of the following is a physical change?
a. Freezing ice cream
b. Dissolving calcium in water
c. Burning kerosene
d. Exposing white phosphorus to air

351. Which of the following metals is purified commercially by electrolysis?
a. Zn
b. Fe
c. Sn
d. Cu

352. The gas that is most useful in protecting humans against solar radiations is____
a. Chlorine
b. Ozone
c. Carbon (iv) oxide
d. Hydrogen sulphide

353. The type of iron that is best suited for welding, making nails, chains and iron rods is_____
a. Pig iron
b. Wrought iron
c. Cast iron
d. Iron pyrites

354. Which of the following gases is commonly found in the atmosphere?
a. Argon

b. Xenon
c. Neon
d. Helium

355. Which of the following is NOT an alkali?
a. NaOH
b. NH_3
c. $Mg(OH)_2$
d. $Ca(OH)_2$

356. A satellite in a circular orbit around earth with constant speed but not a constant velocity. Which of the following statement best explains why the satellite velocity is not constant?
a. The radius of the satellites orbit is not larger
b. The force on the satellite mass is constantly decreasing
c. The magnitude of the satellite momentum is large
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b. Electric potential in a rotating coil of wire on permanent magnet.
c. An electrical current causes a coil of wire in a magnetic field
d. Forces from a permanent magnet allow a coil wire to rotate

358. A neutral balloon is rubbed with a piece of cloth. As a result, the balloon has a negative charge. Which of the following best explain why the balloon has a negative charge?
a. The balloon is a conductor
b. The balloon is an insulator
c. The balloon transfer charges to the cloth
d. The balloon receive charges from the cloth

359. During a thunderstorm, which of the following travel at a speed closest to 3.00 x 108 m/s
a. Wind from the storm
b. Sound from the thunder
c. Light from the lightning
d. Rain from the storm clouds

360. An athlete is training for a race by performing timed trials of sprints up a staircase. Which set of varieties most directly affect the athletes power?
a. Bode weight, height climbed, width of steps
b. Body weight, time spent climbing, width of steps
c. Height climbed, time spent climbing, Bode weight
d. Height climbed, time spent climbing, width of steps

361. Which of the following statements best explains how heat flows by conduction?
a. A large mass of air begins to move faster.
b. Energy is transferred by electromagnetic waves
c. Energy is transferred from molecule to molecule
d. Large mass of warm air rises, replacing the cooler above.

362. Which of the following always occurs when a light ray reflects off a mirror?
a. The speed of the light ray increases
b. The direction of the light ray stays the same

c. The frequency of the light ray decreases as it replace and loses energy to the mirror
d. The angle which the light ray strikes the mirror equal the angle at which it reflects

Choose the one that is most nearly opposite in meaning to the underlined word or group of words and that will, at the same time, correctly fill the gap in the sentence.

363. Rather than make derogatory remarks about host, a guest should make _____ ones.
a. Polite
b. Complementary
c. Interesting
d. Honest

Choose the one that is most nearly opposite in meaning to the underlined word or group of words an that will, at the same time, correctly fill the gap in the sentence.

364. Our mechanized services contrast sharply with the_____ operation we had before.
a. Electrical
b. Controlled
c. Original
d. Manual

Choose the one that is most nearly opposite in meaning to the underlined word or group of words and that will, at the same time, correctly fill the gap in the sentence.

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d. Democratic

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c. Interesting
d. Distant

Choose the word or group of words that is nearest in meaning to the underlined word or group of words as it is used in the sentence.

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a. Irreplaceable
b. Precious
c. Priceless
d. Durable

Choose the word or group of words that is nearest in meaning to the underlined word or group of words as it is used in the sentence.

368. The detective was confused when the clues pointed to several suspects.
a. Excited
b. Worried
c. Discouraged
d. Perplexed

369. I shouldn't go outside without raincoat because it is raining cats and dogs
a. It is just started to rain
b. It raining heavily

c. It going to rain
d. It is raining a little

Choose the one that best explain the underlined as it is used in the sentence.

370. It is lovely house and big but, no body uses it so its a bit of a white elephant
a. Something very beautiful and useful
b. Something very cheap and useless
c. Something very big and useful
d. Something very expensive and useless

Choose the one that best explain the underlined as it is used in the sentence.

371. When the business folded, he took the lion's share
a. The simplest part
b. The smallest part
c. The biggest part
d. The only part

Choose the one that best explain the underlined as it is used in the sentence.

372. Without my glasses I can't see where m going in fact, I'm as blind as bat
a. Very short sighted
b. Very long sighted
c. Very far sighted
d. Very clear sighted

373. Find the principal which amount to #4,400 at simple interest in 5 years at 2% per annum.
a. #3,800
b. #5,200
c. #5,000
d. #4,000

374. Mr Robson bought bags of orange for #2,500 each. He sold them for #90,000 at a loss of 20% . How many bags of orange did he buy?
a. 60
b. 80
c. 50
d. 45

375. Tunse bought a house for #1,250,000 and spent #350,000.00 to renovate it. He then sold the house for #2,000,000.00. What is the percentage gain?
a. 40%
b. 65%

376. If X and Y represent the mean and the median respectively of the following marks of students in a mathematics test 11,12,13,14,15,16,17,18,19,21. Find x/y correct to 1 decimal places.
a. 1
b. 3
c. 5
d. 2

377. Convert 12410 to a number in a base 8
a. 1648
b. 1748

c. 4718
d. 1248

378. List the element of the set (odd numberless than 10)
a. (4,7,8,9)
b. (2,4,6,8)
c. (1,3,5,7)
d. (1,2,3,9)

379. Which of the following is a fundamental particles of an atom
a. Element
b. Neutron
c. Compound
d. Mixture

380. The electronic configuration of an atom is 2,8,8,2 what is the atomic number of the element
a. 10
b. 20
c. 15
d. 18

381. When a solid substance changes directly to a gas on heating without passing through a liquid stat the substance is said to have undergone.
a. Sublimation
b. Melting
c. Evaporation
d. Crystallization

382. Element P,Q,R,S have 6.11,5 and 17 electron respectively, therefore
a. Q will form a covalent bond with S
b. Q will form an electrovalent bond with S
c. P will form an electrovalent bond with the R
d. S will form an electrovalent bond with R

383. Which of the following is not a property of metal
a. Ductile
b. Malleable
c. Conduct heat and electricity
d. Have many oxidation state

384. Which of the following is not an indicator used during titration
a. Methyl orange
b. Methyl red
c. Methyl Yellow
d. Phenolthalein

385. Which of the following statement about gamma radiation is correct? Gamma radiation can
a. Be seen by the naked eye
b. Not pass through an aluminum foil
c. Be present naturally in our surrounding
d. Be used as a tracer

386. The nucleon number of an atom is the total number of
a. Electrons and protons
b. Electrons and neutrons
c. Neutron minus electrons
d. Protons and neutrons

387. The opposite offered to an alternating current in a C-R series is known as
a. Impendence
b. Resistance
c. Reactance
d. Friction

388. The main reason why a.c is transmitted at very high voltage and low current is that it
a. Flow faster through the conductor
b. Can be stepped down
c. is cheaper
d. Reduces heat loss

389. Which of the following object is not a conductor of electricity?
a. The earth
b. Human body
c. Iron rod
d. Dry wood

390. The inverse of the time required for a wave to complete one full cycle is called
a. Wavelength
b. Period
c. Frequency
d. Amplitude

391. Which of the following is the unit of force
a. Joules
b. Watt
c. Ampere
d. Newton

392. A quantity that has both magnitude and direction is
a. Fundamental
b. Derived
c. Scalar
d. Vector

393. The resultant of more than two vectors is calculated using
a. Phythagoras
b. Motion
c. Formula
d. Resolution

394. The total effects of two force of 10N and 7N acting in opposite direction is
a. 17N
b. 170N
c. -3N

d. 3N

395. Which of the following is NOT a fundamental quantity?
a. Velocity
b. Mass
c. Time
d. Length

396. The dimension of force is
a. MLT^{-2}
b. MLT^{2}
c. $ML^{2}T^{2}$
d. $ML^{2}T^{-1}$

397. The unit of the direction of a resultant vector is
a. Degree
b. Newton
c. m/s^{2}
d. m/s

398. Which of the following is not a derived unit
a. kg
b. m/s
c. m/s^{2}
d. Nm/s

399. Find the principal which amount to □4,400 at simple interest in 5years at 2% per annum.
a. □3,800
b. □5,200
c. □5,000
d. □4,000

INSTRUCTION: In the following passage, the numbered gaps indicate missing words. Against each number in the list below, five options are offered in columns lettered A - E. Fill each numbered gap with the most appropriate option.

During this year's world kidney day, which was marked on March 11, 2017, ___1___ experts in the country raised the alarm over increasing cases of ___2___ failure. They said that the condition ___3___ about 45,000 Nigerians. New cases were estimated to be between 14,000 and 15,000 every year. The total number being managed in the country stands at about 1,000. It is also likely that some of the ___4___ are not managed by the experts, while some ___5___ blame the condition on witches or other supernatural causes.

The upsurge in cases of ___6___ failure has been blamed on lack of _nnnn___7___ on the part of patients, and the general health practitioners. There are about 50 ___8___ centres in the country and most of them are located in urban areas. While some ___9___ patients travel overseas for the management of the disease, others patronize the few available hospitals that do renal ___10___ in the country.

Some of the ___11___ of the disease are coloured urine, frothy urine, nausea/vomiting, loss of appetite and headache. Others include itching, swollen legs/eyelids, breathlessness and dry flaky skin.

In spite of its spread___12___ said that early detection of the disease increases the chances of ___13___. However, there are certain rules to observe to make the kidneys ___14___. Medical experts advice that people should keep fit and active by increasing their ___15___activities, keep regular control of their blood sugar level, blood lipids and anemia.

S/NO	A	B	C	D	E
1	Chemical	Medical	Physiological	Professional	Psychological
2	Cardiac	Digestive	Kidney	Mental	Respiratory
3	Afflicts	Changes	Cripples	Damages	Raises
4	Candidates	Patients	Personnel	Scholars	Students
5	Categorically	Conscientious	Erroneously	Perfectly	Rightly
6	Bladder	Epidural	Mental	Renal	System
7	Affections	Awareness	Exercises	Employment	Finances
8	Diagnosis	Dialysis	Healthcare	Preventive	Psychoanalysis
9	Cautious	Chary	Circumspect	Rich	Vigilant
10	Backup	Management	Operation	Transplant	Treatment
11	Indications	Names	Signs	Symptoms	Warnings
12	Anatomists	Anthropologists	Gynecologists	Nephrologists	Psychologists
13	Delivery	Feeding	Recovery	Responding	Revival
14	Beneficial	Healthy	Survive	Well	Vigorous
15	Eating	Mental	Physical	Spiritual	Sleeping

NSTRUCTION: Choose from the options lettered A-D the one that is NEAREST IN MEANING o the expression underlined.

00. What you are suggesting is not <u>feasible</u>
(a) Capable (b) Practicable (c) Attractive (d) Easy

01. The principal <u>endorsed</u> my travelling documents without delay
(a) Corrected (b) Checked (c) Reviewed (d) Approved

402. The thief's jail terms are to run concurrently
(a) Consecutively (b) Alternatively (c) Immediately (d) Simultaneously

403. What do you do with these inanimate objects?
(a) Lively (b) Fascinating (c) Precious (d) Lifeless

404. I gave my candid opinion of the incident.
(a) Quick (b) Brief (c) Frank (d) Hurried

INSTRUCTION: Choose from the options lettered A to D, the one that is MOST NEARLY OPPOSITE IN MEANING to the word underlined.

405. The school authorities expected the contributions to be _____ rather than compulsory.
(a) Wilful (b) Voluntary (c) Deliberate (d) Outright

406. The cultured and the _____ are known by their conduct.
(a) Barbaric (b) Ignorant (c) Clean (d) Lazy

407. Words spoken in the heat of an argument could offend rather than
(a) Pacify (b) Amuse (c) Inspire (d) Irritate

408. Musa seldom asks questions in class and was _____ very careful when he did .
(a) Hardly (b) Sometimes (c) Often (d) Never

409. Mimi's beauty is natural but her sister's rather _____
(a) Unnatural (b) Artificial (c) Awkward (d) Fake

INSTRUCTION: Complete each of the following questions with the MOST APPROPRIATE option from the options lettered A-D.

410. The book gives a good _____ for preparing soup.
(a) Guidance (b) Instruction (c) Order (d) Recipe

411. He agreed to lend us _____ after much persuasion.
(a) A hand (b) Aid (c) Assistance (d) Help

412. The coach _____ the players for wonderful performance.
(a) Commended (b) Commanded (c) Commented (d) Condemned

413. My father's seventieth birthday.
(a) Is called for (b) Will be called for (c) Calls for (d) Call for

414. You will help me lift this box,_____?
(a) Won't you (b) Would you (c) Can you (d) Could you

415. No sooner had they arrived _____ we left the hall.
(a) Than (b) Soon (c) When (d) So

416. This is not your book, it is
(a) John (b) Johns (c) John's (d) Johns'

417. The family _____ dinner when he knocked at the door.
(a) Is having (b) Was having (c) Had (d) Has had

418. All the children were inoculated _____ polio
(a) For (b) From (c) By (d) Against

419. I have never read _____ book in all my life
(a) The more frightening (b) The frightening
(c) A most frightening (d) A more frightening

420. The greatest problem of a leader is that he can see no further than his nose. This means that the leader
(a) Lack foresight (b) Has bad sight (c) Is easily deceived (d) Has no self confidence

421. He left the country to avoid loss of face. This means that he left the country to
(a) Make his fortune somewhere else (b) Seek revenge
(c) Seek refuge (d) Avoid being publicly humiliated

422. His driving make my hair stands on end. This means that his driving was
(a) Delightful (b) Frightful (c) Interesting (d) Exciting

423. John was not really angry with Janet but she seems to have taken the matter very much to heart. This means that Janet
(a) Does not like him (b) Is very upset about the matter
(c) Has taken the matter very likely (d) Has had a serious talk with him

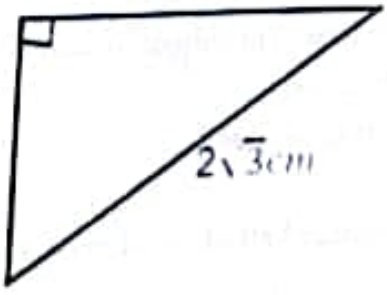
424. The accursed was caught red-handed by the Police. This means that the accursed was
(a) Made to wear red clothes (b) Thought to be in danger
(c) Found in the very act (d) Found covered with blood

425. When a number is subtracted from 2, the result equals 4 less than one fifth of the number. Find the number.
(a) 11 (b) $\frac{15}{2}$ (c) 5 (d) $\frac{5}{2}$

426. A sales boy gave a change of ₦ 68.00 instead of ₦ 72.00. Calculate his percentage error
(a) 4% (b) $5\frac{5}{9}\%$ (c) $5\frac{15}{17}\%$ (d) 7%

427. Given that $2^{4x} = 1024$, what is the positive value of x?
(a) 3 (b) 4 (c) 5 (d) 8

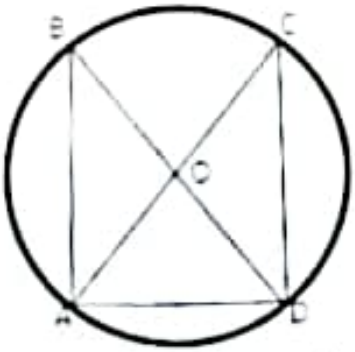
428 Find the value of x in the figure below



(a) $2\sqrt{3}cm$ (b) $3\sqrt{3}cm$ (c) $\sqrt{3}cm$ (d) $\frac{\sqrt{3}cm}{2}$

429. Calculate the volume of a sphere which radius 6cm. (Take $\pi = 3.14$)
(a) 2716.96cm (b) 904.32cm (c) 902.88cm (d) 452.16cm

430. In the figure below, AD is a chord of a circle centred at O. Find ΔACD



(a) 90° (b) 80° (c) 40° (d) 70°

431. The bearing of a town Q from a town P is 045°. Find the bearing of P from Q.
(a) 045° (b) 090° (c) 135° (d) 225°

432. If $23_x + 101_x = 130_x$. Find the value of x
(a) 7 (b) 6 (c) 5 (d) 4

433. Find the 7th term of the sequence 2, 5, 10, 17, 26.....
(a) 20 (b) 48 (c) 50 (d) 63

434. Given that $\log_x 64 = 3$ Evaluate $x \log_2 8$
(a) 6 (b) 9 (c) 12 (d) 24

435. A lamp rated 100w, 240V is lit for 5 hours. Calculate the cost of lighting the lamp if 1kWh of electrical energy cost 5
(a) N2.50 (b) N3.20 (c) N6.50 (d) N9.60

436. A converging lens of focal length 10cm forms an erect image three times the size of a real object. Calculate the distance between the object and the image.
(a) 6.6cm (b) 11.1cm (c) 13.3cm (d) 20.0cm

437. Boiling occurs when the vapour pressure of the liquid is_____
(a) At the evaporation point (b) Less than the atmospheric pressure
(c) Greater than the atmospheric pressure (d) Equal to atmospheric pressure.

438. During a thunder storm, a sound is heard over a longer time. This phenomenon is referred to as
(a) Refraction of sound (b) Reverberation
(c) Superposition (d) Diffraction of sound

439. A ball of mass 0.5kg moving at 10m/s collides with another ball of equal mass at rest. If the balls move off together after the impact, calculate their common velocity.
(a) 0.2m/s (b) 0.5m/s (c) 5.0m/s (d) 10.0m/s

440. A body is projected into space with an initial velocity Vo at an angle □ to the horizontal. Which of

the following statements is/are correct about its motion?

I. The total time of flight is $\frac{V_0 \cos}{g}$

II The maximum height is $\frac{V_0 \sin 2}{2g}$

III. The range is $\frac{V_0 2 \cos^2}{g}$

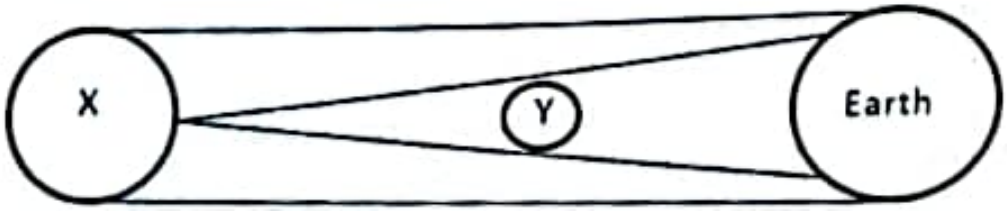
(a) I and II only (b) I and III only (c) II and III only (d) II only

441. An electric string of length 'L' is elastically stretched through a length 'e' by a force 'F'. The area of

cross section of the string is 'A' and its Young's modulus is 'E'. Which of the following expressions is correct?

(a) $F = {}^{EAC}/_{L}$ (b) $F = {}^{EAL}/_{e}$ (c) $F = {}^{EAC}/_{L}$ (d) F = EAC

Use the diagram of the Solar eclipse below to answer Question 58 - 59



442. The letter X in the diagram above represent_____

443. The letter Y in the diagram above represent _____

444. An electric bulb is labeled 260V, 80W. How much current is taken by the bulb?

(a) 0.46A (b) 0.82A (c) 0.40A (d) 0.31A

445. What is the oxidation number of Chromium in the compound $K_2Cr_2O_7$

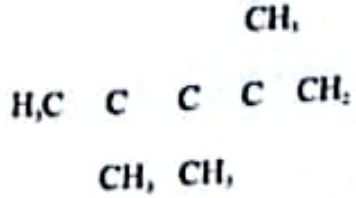
(a) +2 (b) +3 (c) +4 (d) +6

446. Non-polar molecules are held together by _____

(a) Vander Waal Force (b) Covalent bond

(c) Electromagnetic force (d) Hydrogen bond

447.



The IUPAC name of the compound above is;

(a) 2, 3, 4 – trimethylpent – 1, 3 – diene

(b) 2, 3, 4, - trimethyl – penta 2, 4 – diene

(c) 2, 3 – dimethylhexa – 1, 2 – diene

(d) Pentene 2, 3 – dimethyl

448. On the basis of strength of intermolecular forces, which of the following elements would be expected to have the highest melting point

(a) Br_2 (b) Cl_2 (c) F_2 (d) Kr

449. If 0.40mol of H_2 and 0.15mol of O_2 were to react as completely as possible to produce H_2O, what mass of reactant will remain?

(a) 0.20g of H_2 (b) 0.40g of H_2 (c) 3.2g of O_2 (d) 4.0g of O_2

450. Which of the following salt containing ions are generally insoluble in cold water?

(a) Acetate (b) Ammonium (c) Potassium (d) Phosphate

451. Factors that affect the rate of a chemical reaction include which of the following

i. Frequency of collisions of reactant particles

ii. Kinetic energy of collisions of reactant particles

iii. Orientation of reactant particles during collisions

(a) ii only (b) i and ii only (c) i, ii and iii (d) ii and iii only

452. Which conditions are required to obtain a good yield of carboxylic acid when ethanol is oxidized using Potassium Dichromate (VI) $K_2Cr_2O_7$ (aq)?

I Add sulfuric acid

II Heat the reaction mixture under reflux

III Distill the product as the oxidizing agent is added

(a) I and II only (b) I and III only (c) II and III only (d) I only

453. Diamond cannot be used

(a) In making bicycle chains (b) As abrasives

(c) In cutting glass and metals (d) As dies drawing wires

454. What volume of 0.5 MH2SO4 will exactly neutralize 20cm of 0.1 MNaOH solution

(a) $2.0cm^3$ (b) $5.0cm^3$ (c) $6.8cm^3$ (d) $8.3cm^3$

455. The bones of the legs of a six year old boy are observed to be weak and crooked. Which of the following elements were deficient in his mother's diet at pregnancy.

(a) Sodium and Iron (b) Iron and Manganese

(c) Calcium and Phosphorus (d) Magnesium and Sulphur

456. Fingerprint are useful in crime detection because

(a) The police have sophisticated finger print machine

(b) Thieves may have their print at the scene of a crime
(c) No two people have the same finger print
(d) Fingerprints are easy to make

457. In a family of eight (8) all the children are girls which of following reasons correctly explains this
(a) The woman cannot produce male children
(b) The man has a low sperm count
(c) The Y component of the man's sex chromosomes was always involve
(d) The X component of the man's sex chromosomes was always involve.

458. The name of the enzyme that catalyzes the conversion of glucose to glucose 6-phosphate at the beginning of glycolysis
(a) Phosphor Fructokinase (b) Glucose Isomerase
(c) Hexo kinase (d) Glucose 6-kinase

459. The following functions are associated with the liver except
(a) Regulation of blood sugar
(b) Production of heat
(c) Production of calcium
(d) Production of vitamin D

460. Growth include the following processes except
(a) Differentiation (b) Enlargement (c) Meiosis (d) Mitosis

461. In human, which of the following pairs of hormones corresponds to men and female respectively
(a) Oestrogen and adrenalin
(b) Oxytocin and Oestrogen
(c) Testosterone and progesterone
(d) Progesterone and adrenaline

462. Which of the following part of the mammalian skin is involved in excretion?
(a) Sweat gland (b) Sebaceous gland
(c) Horney layer (d) Hair follicle

463. Which of the following part of eye contain light sensitive cells?
(a) Retina (b) Iris (c) Lens (d) Choroid

464. The gastric juice consists if the following
(a) Mucin and pepsin
(b) Erepsin and pepsin
(c) Hydrochloric acid and mucin
(d) Hydrochloric acid and Pepsins

465. The branch of biology that deals with the principles of classification of organism is known as
(a) Biological index (b) Nomenclature
(c) Taxonomy (d) Ecology

466. The following processes are involved in water movement in the endodermis EXCEPT
(a) Osmosis (b) Vacuolar pathway (c) Diffusion (d) Active Transport

467. More sweat is produced during muscular exercise because
(a) The contracting muscle produces water
(b) Fermentation occur in muscles
(c) The temperature of the body rises
(d) The muscles fatigues

468. The conversion of glucose to starch in the leaf during the day principally
(a) Enables photosynthesis
(b) Prevents osmotic problem
(c) Enables the leaf to store the starch
(d) Enables glucose to be used up

469. Which of the following statements best describe protein synthesis?
(a) DNA is directly involved in translation
(b) Translocation of the ribosomes exposes a new codon for base pairing with amino acid
(c) Each RNA with a particular anticodon always carries a different protein in the process
(d) One amino acid is always carried by more than one tRNA

470. If a person has two alleles of the sickle cell anaemia gene, the person
(a) Is a heterozygous carrier of the disease
(b) Is immune to the disease and cannot pass it onto an offspring
(c) Has the disease
(d) Is probably of Asian ancestry.

471. Homeostasis means prevention of _____
(a) Wounds
(b) Body itching
(c) Blood loss
(d) Water loss

472. Which of the following is not considered an innate body defense?
(a) Antibodies
(b) Lysosomes
(c) Phagocytosis

(d) Inflammation

473. Which of these is true?

(a) Accumulation of CO2 leads to decrease pH
(b) Depletion of CO2 from blood leads to increased blood pH
(c) All of the above
(d) None of the above

474. Carbohydrates are act upon by

(a) Amylase, maltase and sucrose
(b) Lipase
(c) Peptidases, Lipases and Galactase
(d) Peptidases, trypsin and chymotrypsin

475. The newly appointed Director of Administration of Ahmadu Bello University Teaching Hospital is:

(a) Mall. Abdulrahman Sallau (b) Mall. Abdulhaleem Sallau
(c) Mall. Abdulrafiu Sallau (d) Mall. Abdulraheem Sallau

476. The full meaning of IDP is

(a) International Day of Population (b) Internally Developed People
(c) Internally Displaced People (d) Internally Distracted People

477. The most recent deadly outbreak of Cerebrospinal meningitis is caused by _____ organism

(a) Neisseria meningitides A (b) Neisseria meningitides C
(d) Neisseria meningitides B (d) Neisseria meningitides D

478. The foremost Northern leader and ex-Nigeria minister who died in Cairo hospital on July 3rd 2017 is

(a) Alh. Inuwa Maitama Sule (b) Alh. Yusuf Maitama Sule
(c) Alh. Ibrahim Maitama (d) Alh. Mustapha Maitama

479. The current Deputy Secretary General of United Nations is _____

(a) Amina Mohammed (b) Jamila Mohammed
(c) Amina Isa (d) Aisha Mohammed

480. _____ is celebrated as HIV/AIDS day

(a) December 1st (b) December 3rd (c) March 12 (d) January 12

481. The 8th president of the African Development Bank is

(a) Banki Moon (b) Fashola Raji Babatunde

(c) Akinwumi Adesina (d) Rotimi Amaechi

482. The Nigeria Chief of Army Staff is _____
(a) Lt. General Tanko Buratai (b) Lt. General Tukur Buratai
(c) Lt. General Tijani Buratai (d) Lt. General Tanimu Buratai

483. The world population day is celebrated on_____
(a) 11th July (b) 11th June (c) 15th July (d) 11th January

484. The oldest serving African President is_____
(a) Roberto Mugabe (b) Robert Mugabe (c) Albert Mugabe (d) Robinson Mugabe

SECTION B: ESSAY (20 marks)

INSTRUCTION: In not more than 400 words, Attempt ANY ONE of the following Questions.

1. Kindness, Loyalty, or Honesty is important quality in a friend. In your own opinion, which is the most important quality of a friend? State at least five (5) different reasons for your choice.

OR

2. Last week, you went to visit your married sister, while you were there, her little son slightly cut his foot on a piece of broken glass. Describe exactly how you dealt with the wound (first aid).

Answers

1. B
2. A
3. B
4. D
5. D
6. B
7. B
8. A
9. C
10. A
11. D
12. A
13. B
14. C
15. A
16. A
17. D
18. A
19. B
20. C
21. D
22. B
23. A
24. C
25. B
26. C
27. A
28. C
29. B
30. A
31. D
32. B
33. C
34. C
35. A
36. D
37. A
38. B
39. C
40. B
41. A
42. C
43. A
44. C
45. B
46. A
47. B
48. C
49. D
50. D
51. D
52. A
53. D
54. B
55. A
56. A
57. B
58. A
59. A
60. B
61. B
62. A
63. A
64. B
65. A
66. D
67. C
68. B
69. D
70. D
71. B
72. C
73. A
74. D
75. A
76. B
77. C
78. C
79. C
80. C
81. C81. B
82. C
83. D
84. A
85. B
86. C
87. D
88. B
89. C
90. C, 90. A
91. A
92. C
93. C
94. D
95. D
96. B
97. A
98. C
99. 0
100. C
101. B
102. A
103. A
104. C
105. C
106. A
107. C
108. A
109. A
110. C
111. A
112. A
113. C
114. C
115. A
116. B
117. C
118. C
119. A
120. C
121. B
122. B
123. A
124. D
125. A
126. C
127. D
128. B
129. A
130. C
131. D
132. B
133. C
134. C
135. B
136. C
137. A
138. A
139. D
140. C
141. B
142. C
143. D
144. B
145. A
146. B
147. C
148. D
149. A
150. C
151. A
152. A
153. B
154. A
155. C
156. D
157. B
158. D
159. D
160. C
161. A
162. B
163. B
164. D
165. C
166. B
167. A
168. B
169. A
170. C
171. A
172. D
173. B
174. C
175. D
176. D
177. D
178. D
179. B
180. C
181. D
182. C
183. C
184. D
185. D
186. D
187. B
188. A
189. C
190. D
191. C
192. B
193. D
194. D
195. D
196. B
197. C
198. A
199. A
200. B
201. A
202. A
203. C
204. D
205. A
206. D
207. A
208. A
209. C
210. B
211. C
212. C
213. B
214. C
215. C
216. A
217. D
218. A
219. B
220. A
221. A
222. B
223. A
224. D
225. C
226. B
227. A
228. A
229. C
230. C
231. D
232. A
233. C
234. D
235. C
236. C
237. B
238. B
239. D
240. B
241. B
242. D
243. A
244. B
245. C
246. B
247. B
248. A
249. C
250. A
251. B
252. B
253. B
254. C
255. B
256. A
257. A
258. B
259. A

260. B
261. C
262. D
263. A
264. A
265. A
266. C
267. D
268. B
269. A
270. C
271. D
272. D
273. B
274. B
275. D
276. A
277. A
278. D
279. A
280. B
281. A
282. B
283. C
284. A
285. D
286. B
287. B
288. C
289. C
290. A
291. B
292. C
293. B
294. B
295. B
296. A
297. D
298. B
299. B
300. D
301. B
302. B
303. D
304. D
305. B
306. C
307. B
308. A
309. D
310. A
311. A
312. D
313. C
314. B
315. D
316. A
317. A
318. D
319. C
320. B
321. C
322. B
323. B
324. A
325. D
326. B
327. A
328. A
329. C
330. C
331. A
332. C
333. D
334. D
335. B
336. B
337. D
338. A
339. A
340. B
341. C
342. B
343. C
344. D
345. C
346. A
347. C
348. D
349. B
350. A
351. D
352. B
353. B
354. D
355. B
356. D
357. A
358. D
359. C
360. C
361. C
362. D
363. A
364. D
365. C
366. B
367. C
368. B
369. B
370. D
371. C
372. A
373. D
374. D
375.-
376. A
377. B
378. C
379. B
380. A
381. A
382. B
383. D
384. C
385. B
386. A
387. A
388. D
389. D
390. C
391. A
392. D
393. D
394. D
395. A
396. A
397. A
398. A
399. D

COMMUNICATION SKILLS

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

CBT PAST QUESTION

400. B
401. D
402. D
403. D
404. C
405. B
406. A
407. A
408. C
409. B
410. D
411. A
412. A
413. C
414. A
415. A
416. C
417. B
418. D
419. D
420. A
421. D
422. B
423. B
424. C
425. C
426. C
427. C
428. C
429. A
430. C
431. D
432. D
433. C
434. C
435. A
436. C
437. D
438. B
439. C
440. D
441. C
442. SUN
443. MOON
444. D
445. D
446. A
447. A
448. A
449. A
450. D
451. C
452. B
453. A
454. A
455. C
456. C
457. D
458. C
459. C
460. B
461. C
462. A
463. A
464. D
465. C
466. C
467. C
468. C
469. C
470. C
471. C
472. A
473. C
474. A
475. D
476. C
477. B
478. B
479. A
480. A
481. C
482. B
483. A
484. B