

**PMC 2022**  
**PRACTICE TEST**  
**02 BIOLOGY-68**

**1. Human immunodeficiency virus attack which of the following cells for its multiplication?**

- a. Neutrophils
- b. Macrophages
- c. Cytotoxic T cells
- d. Helper T cells

**2. Viruses are entirely different from bacteria, because:**

- a. They contain either DNA or RNA
- b. They contain protein
- c. They contain enzymes
- d. They are capable to divide with in the host body

**3. Viruses usually are limited to specific hosts because:**

- a. They contain either DNA or RNA
  - b. They contain protein
  - c. They are specific to cell receptors
  - d. They are capable to divide with in the host body
- 4. Which of the following is a typical**

**symptom of**

**10. Which of the following is the most abundant biomolecule in human body?**

- a. Enzymes
- b. Lipids
- c. Water
- d. Proteins

**11. Metabolism is about \_\_\_\_**

- a. All chemical reactions taking place in a cell
- b. All chemical reactions in prokaryotic bodies
- c. All chemical reactions in eukaryotic bodies
- d. All chemical reactions in an industry

**12. Which of the following is true about glucose and fructose?**

- a. Have same structural formula
- b. Have different molecular formula
- c. They are building blocks of sucrose
- d. They are aldohexoses

**13. If an  $\alpha$ -helix of a polypeptide consist of 360 amino acids, how many turns does the helix contain?**

- a. 3.6 turns
- a. Sudden weight loss
- b. Active immune function
- c. Vision impairment
- d. Kaposi's Sarcoma, A rare form of skin cancer

**5. Carbon dioxide enters the leaf through:** a. Chloroplasts  
b. Mesophyll  
c. Thylakoids  
d. Stomata

**6. End products of aerobic respiration are :** a. Sugar and oxygen  
b. Water and energy  
c. Carbon dioxide, water and energy  
d. Carbon dioxide and energy

**7. Which of the following is respiratory fuel?** a. Sucrose  
b. Glucose  
c. Galactose  
d. Mannose

**8. The enzymes involved in anaerobic respiration are found in:**  
a. Cytoplasm  
b. Mesosomes  
c. Chloroplast  
d. Mitochondria

**9. Which one of the following is a polymer of alpha d glucose**  
a. cellulose  
b. glycogen  
c. insulin  
d. chitin



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b. 100 turns  
c. 360 turns  
d. the number of turns can not be determined

**14. Insulin consists of two polypeptides containing 21 amino acids and 30 amino acids each. How many peptide bonds does the insuline contain?** a. 51  
b. 50  
c. 49  
d. 2

**15. When alpha glucose is condensed with beta fructose, which of the following can be produced?** a. Maltose  
b. Lactose  
c. Water  
d. Peptide bond

**16. What is incorrect about plasma membranes?** a. They are involved in maintaining gradients between different compartments  
b. They are involved in cell communication  
c. They are involved in exchange of materials d. They initiate nuclear division

**17. What is the difference between facilitated transport and passive transport?**

- a. All facilitated transport is passive
- b. All passive transport is facilitated
- c. Facilitated transport requires membrane proteins d. Passive transport is downhill whereas facilitated transport is uphill

**18. Which organelle synthesizes proteins for export or repackaging elsewhere?**

- a. Rough endoplasmic reticulum
- b. Smooth endoplasmic reticulum
- c. Free ribosomes
- d. Golgi complex

**19. Lysosomes originate from which cell organelle?** a. Rough endoplasmic reticulum

- b. Smooth endoplasmic reticulum
- c. Golgi apparatus
- d. Cell membrane

**20. Which of these cell organelles are involved in the synthesis of new plant cell walls?**

- a. Rough endoplasmic reticulum
- b. Smooth endoplasmic reticulum
- c. Golgi complex
- d. Cell membrane

**21. The protoplast of a plant cell does not include:** a. Cell wall

- b. Cell membrane
- c. Vacuoles
- d. Nucleus

**22. In a eukaryotic cell, where are the proteins for electron transport chain located?**

- a. Smooth endoplasmic reticulum
- b. Rough endoplasmic reticulum
- c. Mitochondria
- d. Cell membrane

**29. Diffused nervous system is present in which animal group?**

- a. Platyhelminthes
- b. Annelida
- c. Cnidaria
- d. Porifera

**30. Saccoglossus belongs to which group of invertebrates?**

- a. Porifera
- b. Cnidaria
- c. Echinodermata
- d. Hemichordates

**31. What is correct about triploblastic animals?** a. They all show bilateral symmetry.  
b. They show radial as well as bilateral symmetry. c. They are all protostomes.  
d. They are all deuterostomes.

**32. Which features identify deuterostomes?** a. Blastopore makes the mouth.  
b. Zygote divides spirally.  
c. Mesoderm forms from the developing gut.  
d. Fate of each blastomere is pre-determined

**23. Which cells synthesize testosterone?** a. Adrenal medulla of adrenal glands  
b. Adrenal cortex of adrenal glands  
c. Interstitial cells of testis  
d. Graffian follicle

**24. In which part of the nervous system will you find Schwann cells?**  
a. Central nervous system  
b. Peripheral nervous system  
c. Limbic system  
d. Sympathetic nervous system

**25. Cushing's disease results because of excessive secretion of which hormone?**  
a. Noradrenaline  
b. Testosterone  
c. Cortisol  
d. Adrenocorticotrophic hormone

**26. The target cells of this hormone are present in kidney tubules.**  
a. Aldosterone  
b. Corticosterone  
c. Cortisol  
d. Noradrenaline

**27. Neurilemma cells are also known as?** a. Photoreceptors  
b. Odontoblasts  
c. Ganglion  
d. Schwann cells

**28. Which of these compounds generates a feeling of well-being and inhibits the sensation of pain?** a. Cortisol  
b. Adrenaline  
c. Endorphine  
d. Dopamine

**33. Catalytic activity of an enzyme is restricted to its:** a. Active site  
b. Catalytic site

- c. Binding site
- d. Allosteric site

**34. The rate of an enzyme catalyzed reaction:** a. Can be reduced by inhibitors  
b. Is constant under all conditions  
c. Cannot be measured  
d. Has no relation with substrate concentration

**35. An activated enzyme consisting of polypeptide chain and a cofactor is called?**  
a. Apoenzyme  
b. Holoenzyme  
c. Conjugated enzyme  
d. Hybrid enzyme

**36. Inhibitors which block the enzyme by forming weak bond are called?**  
a. Competitive inhibitors  
b. Non-competitive inhibitors  
c. Irreversible inhibitors  
d. Reversible inhibitors

**37. What is meant by enzyme denaturation?** a. An enzyme begin to catalyze reverse reaction  
b. The enzyme loses its three dimensional structure. c. Enzyme stops its activity temporarily  
d. Enzyme becomes apoenzyme

**38. Descent with modification means:**  
a. all organisms show resemblance  
b. organisms do not show resemblances  
c. The organisms show resemblances but later change d. The organisms do not show resemblances but later become alike

**39. Survival of the fittest depends upon:** a. Acquired characters of the organisms  
b. Genetic drift  
c. depends in part on the hereditary constitution of the surviving individuals  
d. Natural catastrophies

**40. According to Darwin, a diverse life-forms could arise from:**  
a. Common ancestor  
b. Random mutation  
c. The process of special creation  
d. Inheritance of aquired characters

**41. In terrestrial vertebrates, the gill slits are modified to form:**  
a. Ear muscles  
b. Eustachian tube  
c. Larynx

d. Lungs

**42. The salivary glands are present in:**

- a. Stomach
- b. Pharynx
- c. Buccal cavity
- d. Pancreas

**49. Which of the following provides resistance against high temperature?**

- a. Cysts
- b. Spores
- c. Cell wall
- d. Capsules

**50. Photosynthetic bacteria have the ability to release:**

- a. Sulphur
- b. Oxygen
- c. Hydrogen
- d. Carbon dioxide

**51. For sterilization purpose, generally X-rays are used which cause:**

- a. Mutation in bacterial genome
- b. Denaturation of bacterial proteins
- c. Inactivation of bacteria
- d. Bacteria to become pathogen

**52. A bacterial cell envelop does not include :**

- a. Slime
- b. Capsule
- c. Cell wall
- d. Cell membrane

**43. The distal blind end of the malpighian tubules bathes freely in which of the following?**

- a. Digestive tract
- b. Intestines
- c. Coelom
- d. Haemocoel

**44. Hunger contractions are of which type?**

- a. Antiperistalsis
- b. Peristalsis
- c. Voluntary
- d. Involuntary

**45. Partly digested food is stored in which of the following in a cockroach?**

- a. Gizzard
- b. Crop
- c. Rectum
- d. Hepatic cece



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**46. Exceptionally the positive hydrostatic pressure generated by root pressure is about how many Kpa?**

- a. 600
- b. 700
- c. 800
- d. 900

**47. The movement of water molecules from a region of higher water potential to a region of lower water potential?**

- a. Active transport
- b. Osmosis
- c. Diffusion
- d. Photosynthesis

**48. The percentage of CO<sub>2</sub> carried as carboxyhemoglobin is?**

- a. 10
  - b. 15
  - c. 20
  - d. 25
- a. The space between outer membrane and peptidoglycan layer of cell wall
  - b. The space between cell membrane and cell wall
  - c. The space within the cell
  - d. The space between phospholipid bilayer

**54. Which of the following part of male reproductive system is located outside the testes?**

- a. Seminiferous tubules
- b. Epididymis
- c. Efferent ductules
- d. Urinogenital duct

**55. Where Sertoli cells are present in male reproductive system?**

- a. In germinal epithelium
- b. Between seminiferous tubules
- c. In seminal vesicle
- d. In prostate gland

**56. 2nd meiotic division in oocyte is completed during?**

- a. When ovum is discharged from the ovary
- b. Just before fertilization
- c. Before the onset of menstruation
- d. When oocyte is fertilized by sperm

**57. During birth which of following act as birth canal?**

- a. Oviduct
- b. Ovary
- c. Uterus
- d. Vagina

**58. Nutrition to the developing egg in ovary is provided by which of the following?**

- a. Germ cells
- b. Egg mother cells

- c. Follicular cells
- d. Endometrial cells

**59. Which type of joints are connected by dense, tough connective tissue that is rich in collagen fibers?**

- a. Fibrous joints
- b. Cartilaginous Joints
- c. Synovial Joints
- d. Gomphosis joints

**60. Name the joint that allows the skull to rotate on your spine:**

- a. Hinge joint
- b. Sliding joint
- c. Fibrous joint
- d. Pivotal joint

**61. Humerus makes a ball and socket joint with :** a. Clavicle

- b. Sternum
- c. Innominate
- d. Scapula

**62. Hip joint is an example of:**

- a. Ball and socket joint
- b. Hinge joint
- c. Multistage joint
- d. Cartilaginous joints



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## **PHYSICS-54**

**69. Is it possible to have a non-zero number of forces acting on an object (of non-zero mass), yet the object doesn't accelerate?**

- a. No
- b. Yes
- c. Not necessarily
- d. Not enough information

**70. Two bodies in contact experience forces in:** a. Same direction

- b. Opposite directions
- c. Perpendicular directions
- d. Five different direction

**71. Newton's third law can be derived from:** a. First law

- b. Second law
- c. Gravitational law
- d. First and second laws both

**72. The horse pulling the wagon is able to move forward because of:**

- a. The force exerted by the horse on the ground
- b. The force exerted by the ground on the horse

**63. It is the basic unit of biological information:** a. Trait

- b. Gene
- c. Genotype
- d. Phenotype

**64. Linkage reduce the frequency of:**

- a. Recombinants or Hybrids
- b. Parental Phenotypes
- c. Dominant Homozygotes
- d. Recessive Homozygotes

**65. What is the ratio of homozygous dominant to homozygous recessive phenotypes in F<sub>2</sub> generation of monohybrid cross ?**

- a. 1 ratio 1
- b. 1 ratio 2
- c. 1 ratio 3
- d. 3 ratio 1

**66. Which of the following is dominant X-linked trait in human?**

- a. Testicular feminization
- b. Haemophilia
- c. Colorblindness
- d. Hypophosphatemic Rickets

**67. Relatives who have children together have a much higher risk of having children affected by:** a. Environmental condition

- b. Dominant condition
- c. Recessive condition
- d. Undetected condition

**68. If a heterozygous round pea plant is crossed with a wrinkled pea plant, what is the probability of homozygous phenotypes in the progeny?** a. 25%

- b. 50%
- c. 75%
- d. 100%

d. The force exerted by the horse on the wagon

**73. While moving a boat forward we have to:** a. Push water forwards

- b. Push water backwards
- c. Keeps the water steady
- d. Keeps the water undisturbed

**74. Conservation of momentum is always applicable in a:**

- a. Open system
- b. Closed system

- c. Isolated system
- d. Any system

**75. Work done by the spring force in a time interval can not be:**

- a. Positive
- b. Negative
- c. Zero
- d. Constant

**76. If the water falls from a dam on the turbine wheel 19.6 m below, then the velocity of water at turbine is:**

- a. 9.8 m/s
- b. 19.6 m/s
- c. 32.8 m/s
- d. 98.0 m/s

**77. According to mechanical energy conservation:**

- a. KE remains constant
- b. PE remains constant
- c.  $KE + PE = \text{constant}$
- d. Gravitational energy is constant

**78. Potential energy of a spring at the equilibrium position is:**

- a. Zero
- b. Infinite
- c. Maximum
- d. Information insufficient

**79. The area of circle is measured with help of:**

- a. Angular displacement
- b. Angular velocity
- c. Angular acceleration
- d. Time

**80. Angular displacement becomes linear for \_\_\_\_\_ arc lengths:**

- a. Short
- b. Circular
- c. Curved
- d. Large

**81. The direction associated with angular displacement is given by:**

- a. Left-hand rule
- b. Head to tail rule
- c. Right-hand rule
- d. Fleming's rule

**88. Energy emitted in the form of visible radiation is called:**

- a. Light energy
- b. Sound energy
- c. Tidal energy



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d. Geothermal energy

**89. Water waves are examples of:**

- a. Transverse waves
- b. Progressive waves
- c. Longitudinal waves
- d. Compressional waves

**90. The specific heat of a gas in adiabatic process is:** a. Zero

- b. Infinite
- c. Negative
- d. Remains constant

**91. Molar heat capacity at constant pressure is given by:** a.  $dQ/dV$

- b.  $dQ/dT$
- c.  $dU/dT$
- d.  $dU/dV$

**92. For a monatomic ideal gas of 3 mole,  $C_p - C_v$  is:**

**82. An object travelling in a circle at 2 revolutions per second has an angular velocity of:**

- a. 12.9 rad/s
- b. 13.3 rad/s
- c. 12.6 rad/s
- d. 14.6 rad/s

**83. Pitch is \_\_\_\_\_ proportional to Frequency:** a. Directly

- b. Inversely
- c. Exponentially
- d. No effect

**84. Water waves are:**

- a. Longitudinal waves
- b. Complex waves
- c. Transverse waves
- d. Both longitudinal and transverse wave

**85. The distance between two consecutive nodes of a stationary wave is:**

- a.  $\lambda$
- b.  $\lambda/2$
- c.  $\lambda/4$
- d.  $\lambda/6$

**86. In frequency modulation, which of the following property of the original signal does not change:** a. Pitch

- b. Frequency
- c. Wavelength

d. Amplitude

**87. In amplitude modulation what remains the same:** a. Frequency of the wave

- b. Amplitude of the wave
- c. Wavelength of the wave
- d. Intensity of waves
- b.  $\frac{3}{2} R$
- c.  $2R$
- d.  $3R$

**93. Change in P.E per unit charge in the electric field is:** a. Electric potential

- b. Power
- c. K.E
- d. Work done

**94. Electric Potential which is measured with respect to the zero potential is called:**

- a. Absolute electric potential
- b. Change in K.E
- c. Change in potential energy
- d. Electric intensity

**95. When a charge gets influenced by its surrounding, it has entered:**

- a. An electric field
- b. A gravitational field
- c. Thermal field
- d. Closed field

**96. The flux through a surface will be minimum when angle between E and  $\Delta A$  is:**

- a.  $90^\circ$
- b.  $60^\circ$
- c.  $30^\circ$
- d.  $0^\circ$

**97. The force per unit charge is called:**

- a. Electric Force
- b. Electric Flux
- c. Electric Potential
- d. Electric Intensity



- 98. The device used to store a charge is called:** a. Electric box  
b. Capacitor  
c. Inductor  
d. Transistor

**99. The SI unit of charge is:**

- a. Newton  
b. Coulomb  
c. Pascal  
d. Ampere

**100. Ohm's law is applicable to**

- a. Semiconductors  
b. Vacuum tubes  
c. Carbon resistors  
d. Conductors

**101. In series circuit, current remains?** a. Same

- b. Different  
c. Variable  
d. Zero

**102. In parallel voltage remains?**

- a. Same

- 109. Power loss in the actual transformer is due to:** a. Back emf  
b. Strong magnetic field  
c. Eddy currents  
d. Weak magnetic field

**110. AC generator cannot generate:**

- a. AC voltage  
b. High AC voltage  
c. DC voltage  
d. Low AC voltage

**111. AC generators are similar to:**

- a. Transformers  
b. Inductors  
c. Capacitors  
d. Motor

**112. AC generator consists of \_\_\_\_\_ poles:** a. 0

- b. 1  
c. 2  
d. 3

**113. The emf induced in a circuit according to Faraday's law depends on the**

- b. Different c. Variable d. Zero

- a. Maximum magnetic flux
- b. Initial magnetic flux
- c. Change in magnetic flux
- d. The rate of change of magnetic flux

**103. Which of the following statements is true?** a. Power is proportional to voltage only  
b. Power is proportional to current only  
c. Power is neither proportional to voltage nor to the current  
d. Power is proportional to both the voltage and current

**104. Calculate the work done in a resistor of 20 ohm carrying 5A of current in 3 hours?**

- a. 1 kwh
- b. 1.5 kwh
- c. 2 kwh
- d. 3 kwh

**105. Basically a potentiometer is a device for:** a. Comparing two voltages  
b. Measuring a current  
c. Comparing two currents  
d. Measuring a voltage

**106. The magnetic flux is a \_\_\_\_\_ quantity:** a. Scalar  
b. Vector  
c. Vector in some cases  
d. Scalar in some cases

**107. Tesla is unit of \_\_\_\_\_ per unit area:** a. Magnetic field lines  
b. Electric field lines  
c. Optical field lines  
d. Gravitational field lines

**108. The flow of charges produce:**

- a. Current only
- b. Magnetic field only
- c. Electric field only
- d. Electric and magnetic field both

**114. Which of the following rectifier uses wheatstone bridge to rectify signal:**

- a. Half wave
- b. Full wave
- c. Bridge
- d. Both half and full wave

**115. Wave nature and particle nature of photon is linked by:**

- a. Rest mass of photon
- b. Wavelength of photon
- c. Light speed



d. Momentum of photon

**116. X-ray is the reverse process of:**

- a. Pair production
- b. Compton effect
- c. Photoelectric effect
- d. Annihilation

**117. Wave particle duality does not describe:** a. Momentum

- b. Frequency
- c. Mass
- d. Energy

**118. If the temperature of Sun is doubled, heat energy reached on earth become:**

- a. Three Times
- b. Sixteen Times
- c. Four Times
- d. Same



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**119. A body at temperature T radiates heat according to relation:**

- a.  $T^{-2}$
- b.  $T^4$
- c.  $T^{-4}$
- d.  $T^{-3}$

**120. The direct exposure of sun light where ozone layer is depleted will cause:**

- a. Skin cancer
- b. Sugar
- c. Corona
- d. Sun burn

**121. For two down quarks total charge is:** a.  $-2/3 e$

- b.  $-2 e$
- c.  $-1 e$
- d.  $-1/2 e$

**122. The word radiation means:**

- a. To propagate
- b. Stay at rest
- c. Mass less objects
- d. Charged object

**126. Which principle contradict the Bohr's model ?** a. Planck quantum theory

- b. Hund's rule
- c. Pauli's exclusion principle
- d. Heisenberg's uncertainty principle

**127. The valence shell electronic configuration of Ca is:** a.  $1s^2$

- b.  $2s^2$
- c.  $3s^2$
- d.  $4s^2$

**128. How many unpaired electrons are there in the Nitrogen atom?**

- a. 3
- b. 4
- c. 5
- d. 6

**129. Which of the following atomic orbital has lowest energy?**

- a. 1s
- b. 2p
- c. 3s
- d. 4p



**CHEMISTRY-54**

**130. Intermolecular forces between gas molecules are significant at:**

- a. High temperature and low pressure
- b. Low temperature and high pressure

**123. What is the mass in grams of 1.69 moles of phosphoric acid?**

- a. 148 g
- b. 138 g
- c. 157 g
- d. 166 g

**124. The amount of reactant according to the balanced chemical equation is called as?** a. Theoretical amount

- b. Actual amount
- c. Limiting amount
- d. Stoichiometric amount

**125. What mass is the mass of 2 dm<sup>3</sup> of oxygen at S.T.P?**

- a. 1.42g
- b. 2.22g
- c. 3.2g
- d. 2.85g
- c. At standard temperature and pressure
- d. At standard temperature and pressure

**131. According to kinetic molecular theory, collisions between the gas molecules:**

- a. Are elastic
- b. Are non-elastic
- c. Increase energy
- d. Decrease Energy

**132. The product of volume and pressure of fixed amount of a gas at constant temperature remains same for initial and final state of a gaseous system. This statement corresponds to:**

- a. Avogadro's Law
- b. Dalton's law
- c. Boyle's law
- d. Graham's law

**133. Which of the following substances has the largest intermolecular forces of attraction ?**

- a. H<sub>2</sub>O
- b. H<sub>2</sub>S
- c. H<sub>2</sub>Se
- d. H<sub>2</sub>Te

**134. Which of the following substances has the largest intermolecular forces of attraction ?**

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- c. H<sub>2</sub>Se
- d. H<sub>2</sub>Te

**135. The solid which is hardest of all types is \_\_\_\_\_ ?** a. Covalent solids

- b. Molecular solids
- c. Ionic solids
- d. Metallic solids

**136. What shape does diamond and NaCl unit cells possess?**

- a. NaCl Monoclinic and Diamond Cubic
- b. NaCl Cubic and Diamond Rhombic
- c. Both are Cubic
- d. Both are Rectangular

**137. Weak acid, its salt with a strong base produces** a. Basic Buffer

- b. A buffer with pH < 7
  - c. Neutral Buffer
  - d. Amphoteric Buffer
- 138. NaCl can be purified by passing gaseous**
- a. Sulfuric acid
  - b. Chlorine
  - c. Ammonia
  - d. Hydrogen Chloride

**139. When Hydrogen chloride gas passes through saturated brine it increase concentration of**

- a. Sodium Ion
- b. Hydrogen ion
- c. Calcium ions
- d. Chloride Ion



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**140. Activation energy for forward and backward reactions is always**

a. Same

**146. How many hybridized orbitals are formed by intermixing of 4 atomic orbitals?**

a. 2

b. 4

c. 8

d. 6

**147. The pi bonds surround the sigma bonds in ethyne molecule in the shape of**

a. Linear

b. cylindrical

c. Trigonal planar

d. Tetrahedral

**148. Which of the following is an oxonium ion? a.  $\text{NH}_4^+$**

b.  $\text{PH}_4^+$

c.  $\text{RSH}_2^+$

d.  $\text{H}_3\text{O}^+$

**149. All alkaline earth metals react with nitrogen to give: a. Nitrates**

b. Nitrides

c. Nitriles

d. Amides

**150. More the ionization potential, less will be the ability**

b. Different

c. Reciprocal of each other

d. Higher for forward reaction

**141. Arrhenius equation is an equation of: a. Curve**

b. Parabola

c. Straight Line

d. Hyperbola

**142. In the air,  $\text{N}_2$  and  $\text{O}_2$  occur naturally but they do not react to form oxides of nitrogen because**

a. oxides of nitrogen are unstable

b. catalyst is required for the reaction

c. the reaction is endothermic

d.  $\text{N}_2$  and  $\text{O}_2$  do not react with each other

**143. The correct value for the enthalpy of formation of CO is:**

a.  $-110\text{kJ/mol}$

b.  $-210\text{kJ/mol}$

c.  $+110\text{kJ/mol}$

d.  $+210\text{ kJ/mol}$

**144. What is the advantage of using Pt foil in Standard hydrogen electrode**

**formation?** a. It acts as catalyst

b. It does not support the electrode

c. It provides large surface area



d. It decreases the time duration for measurement

**145. Cu ion takes up 2 electrons to give an electrode potential value of:**

- a. 0.76v
- b. 0.32v
- c. 0.34v
- d. -0.34v

**151. Which statement about the Group VIA elements is false?**

- a. All have an outer electronic configuration of  $ns^2 np^4$ .
- b. The electronegativity of Group VIA elements decreases as one goes down the group.
- c. Most are found in sulfide deposits.
- d. Oxygen has the highest boiling point and melting point.

**152. Which compound gives the photochemical smog, a brownish color?**

- a. NO
- b.  $HNO_2$
- c.  $NO_2$
- d.  $N_2O_4$

**153. Element that form interstitial compounds is \_\_\_\_\_ a. C**

- b. F
- c. Cs
- d. Rb

**154. Coinage metals belong to which group of periodic table?**

- a. 1B
- b. 2B
- c. 3B
- d. 3A

**155. Halogenation of alkane in sunlight is the example of:** a. Addition reaction

- b. Elimination reaction
- c. Substitution reaction
- d. Rearrangment reaction

**156. Major product of the following reaction is:  $CH_2=CH-CH_2-CH_3 + HBr \rightarrow$**

- a.  $CH_2(Br)-CH_2-CH_2-CH_3$
- b.  $CH_3-CH(Br)-CH_2-CH_3$
- c.  $CH_2=CH-CH(Br)-CH_3$
- d.  $CH_2=CH-CH_2-CH_2(Br)$

**157. Which of the following process gives benzenesulphonic acid from benzene?**

a. Ozonolysis

b. Sulphonation

c. Nitration

d. Halogenation

**158. Benzene is less reactive than is corresponding alkene due to:**

a. More Unsaturation

b. More Saturation

c. Less electronegativity difference between C and H atom

d. Delocalization of pi electrons

**159. What is the structure of benzene?**

a. Regular, flat planar hexagon

b. Regular, 3D hexagon

c. Regular, flat planar octagon

**166. Which of the following reactions are given by alcohol and phenol both?**

a. Esterification

b. Nitrosation

c. Amide formation

d. Lucas Reaction

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**169. A new C-C bond formation is possible with:**

a. Clemmenson reaction

b. Nitration reaction

c. Friedel Craft reaction

d. Saturation reaction

**160. Which of the following has anti knocking properties?**

a.  $(\text{CH}_3\text{CH}_2)_4\text{Sn}$

b.  $(\text{CH}_3\text{CH}_2)_4\text{Pb}$

c.  $(\text{CH}_3\text{CH}_2)_4\text{Ge}$

d.  $(\text{CH}_3\text{CH}_2)_4\text{Si}$

**161. Which of the following fraction of petroleum has lowest boiling point at STP.**

a. Kerosine oil

- b. Lubricating oil
- c. Gasoline
- d. Natural gas

**162. Conversion of straight chain hydrocarbons into branched chain is called**

- as \_\_\_\_\_?**
- a. Reforming
  - b. Cracking
  - c. Isomerization
  - d. Decomposition

**163. Which one of the following is a strong Nucleophile?**

- a. Cl
- b. Br
- c. OH
- d. HSO<sub>4</sub><sup>-</sup>

**164. 2-chlorobutane belongs to:**

- a. Primary Alkyl halides
- b. Secondary Alkyl Halides
- c. Tertiary Alkyl Halides
- d. Quaternary Alkyl halides

**165. If bond energy of C-Cl is 346 kJ/mol. The bond energy of C-Br should be:**

- a. 290 KJ/mol
- b. 390 kJ/mol
- c. 490 KJ/mol
- d. 590 KJ/mol

- a. Diethers
- b. Aldehydes
- c. Carboxylic acid
- d. Ketones

**171. When two moles of acetone are treated with a base the product is?**

- a. 3-hydroxy-2-methyl pentanone
- b. 4-hydroxy-4-methyl-2-pentanone
- c. 3-hydroxy butanone
- d. 3-hydroxyl pentanal

**172. Carboxylic acids are obtained from fats and oils by:**

- a. Oxidation
- b. Reduction
- c. Decarboxylation
- d. Hydrolysis

**173. Which one of the following carboxylic acid has an unpleasant smell?**

- a. Propionic acid
- b. Formic acid
- c. Butyric acid
- d. Acetic acid

174. Which of the following is not an IUPAC name of the compound.

- a. Methanoic acid
- b. Ethanoic acid
- c. propanoic acid
- d. Propionic acid

175. In structure of diamond each carbon atom is \_\_\_\_ hybridized?

- a.  $sp^3$
- b.  $sp^2$
- c.  $sp$
- d.  $dsp^2$

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176. Position of atoms in molecular crystals can be determined by:

- a. X-rays analysis
- b. Spectroscopic analysis
- c. Spectrometric analysis
- d. combustion analysis



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177. Take your warm jacket with you \_\_\_\_\_ it gets breezy.

- a. although
- b. in case
- c. rather
- d. until

178. You have to make sure the knife is \_\_\_\_\_ before you cut the vegetables.

- a. flat
- b. sharp
- c. sliced
- d. thick

179. I like this shirt a lot but the \_\_\_\_\_ are too

186. He made \_\_\_\_\_ a story when he was late for the first class, but the teacher didn't believe him. a. on

- b. up
- c. off
- d. under

187. The plane will stay on the runway \_\_\_\_\_ five minutes.

- a. for
- b. in
- c. below
- d. on

**188. The plane wasn't allowed to take \_\_\_\_\_ because of bad weather conditions.**

- a. on
- b. up
- c. off
- d. to

**189. Choose the correct spelling of the word.** a. Annehilate

- b. Anihilate
- c. Annihilate
- d. Anehilate

**short.**

- a. buttons
- b. heels
- c. collars
- d. sleeves

**190. Choose the correct spelling of the word.**

- a. Ignomeny
- b. Ignominy
- c. Ignomminy
- d. Ignomny

**180. There will be a rush for the seats when the train \_\_\_\_\_.**

- a. will arrive
- b. arrived
- c. is arriving
- d. arrives

**181. Which one is not a past tense?**

- a. She finished all the exercises.
- b. Dr Smith healed the patient.
- c. Michael studied hard all year.
- d. He will have eaten lunch

**182. Choose the future tense.**

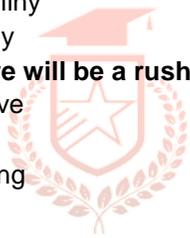
- a. He went to school yesterday
- b. He loves apples.
- c. I will go to market.
- d. He is fighting with John.

**183. The man \_\_\_\_\_ wallet was stolen, called the police.**

- a. who
- b. whose
- c. whom
- d. which

**184. The market is nearer to them than \_\_\_\_\_.** a. we

- b. ourself



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- c. us
- d. ourselves

**185. Find the correctly spelt word**

- a. Sovereign
- b. Soveregn

**191. Choose the correct spelling of the word.** a. Exhebiton

- b. Exhibition
- c. Exhabation
- d. Exehation

**192. Which one is correct?**

- a. I'm just passing away, Ali. Thought I might run into Ahmed here.
- b. I'm just passing through, Ali. Thought I might run into Ahmed here.
- c. I'm just passing on, Ali. Thought I might run into Ahmed here.
- d. I'm just passing along, Ali. Thought I might run into Ahmed here.

**193. Which one is correct?**

- a. She bent down enough permit him to stoop and pick up her purse.
- b. She bent down enough to permit him to stoop and pick up her purse.
- c. She bent up enough to permit him to stoop and pick up her purse.
- d. She bent down enough to permit him to stop and pick up her purse.

**194. Which one is correct?**

- a. Speak up! I can't hear you because your dog is making too much noise.
- b. Speak up! I can't hear you because your dog is making much too noise.
- c. Speak up! I can't hear you because your dog is making much more too noise.
- d. Speak up! I can't hear you because your dog is making

## **L. REASONING-06**

**195. Statement (A) The Government has imported large quantities of sugar as per trade agreements with other countries. Statement (B) The prices of sugar in the domestic market have fallen sharply in recent months.**

- a. Statement A is the cause and statement B is its effect.
- b. Statement B is the cause and Statement A is its effect
- c. Both statements are independent causes. d. Both statements are effects of independent causes.

**196. Statement : A large number of people have become critically ill after consuming spurious liquor from a local shop.**

Courses of Action : I. The Government should immediately close down all the shops selling liquor till the stocks are tested for the presence of toxicity.

- b. 15 km east

- c. 20 km east
- d. 25 km east

**197. To approach this question, use a sentence: "A champion could not exist without \_\_\_\_\_."**  
**Find the word that fits in.**

- a. Running
- b. Swimming
- c. Courage

**198. Pick the word which is always associated with: Electrical Energy.**

- a. Light
- b. Cars
- c. Power
- d. Water

**199. Which of the following expressions may not be true if the following expressions are true? (a)  $Z \geq Y$  (b)  $Y = W$  (c)  $W \leq X$**

- a.  $W \leq Z$
- b.  $X \geq Z$
- c.  $Y \leq X$
- d.  $Z = Y$

**200. Asiya goes 30 km towards North from a fixed point, then after turning to her right she goes another 15 km. Then she takes another right and goes 30km. How far and in what direction is she from her starting point?** a. 10 km east

owner of the liquor shop should be asked to leave the town and open a shop elsewhere. III. The owner of the liquor shop should immediately be arrested and tried for criminal negligence.

- a. Only I follows
- b. Only II follows
- c. Only III follows
- d. Only I and III follow