

PMC PRACTICE TEST 15

BIOLOGY

- Q.1** The complex that forms when a substrate binds to enzyme is called?
A. Enzyme-substrate complex B. Enzyme complex
C. Substrate complex D. Structural complex
- Q.2** One of the functions of the Neuroglial cells is to protect and support which of the following?
A. Nephrons B. Myoid cells
C. Neurons D. None of these
- Q.3** Mating between relatives is called which of the following?
A. Ex breeding B. Breeding
C. Inbreeding D. Outbreeding
- Q.4** Secondary cell wall of sclerenchyma cells is impregnated with?
A. Cellulose B. lignin
C. Murein D. Pectin
- Q.5** Which of the following bacteria do not commonly have a flagella?
A. Cocci B. Bacilli
C. Streptobacilli D. Vibrio
- Q.6** Magnifying power of electron microscope as compared to eye is?
A. 500 X B. 250 000 X
C. 500 000 X D. 100 000 X
- Q.7** Enzyme-catalyzed modifications are?
A. Reversible B. Irreversible
C. Both A and B D. None of these
- Q.8** Lymphatic system consists of all the following except:
A. Lymph nodes B. Blood
C. Lymphatic vessels D. Lymph
- Q.9** The animals in which coelom is formed due to splitting of mesoderm are known as which of the following?
A. Pseudocoelom B. Enterocoelous
C. Amphicoelous D. Schizocoelous
- Q.10** Which of the following system is well-developed in acoelomates?
A. Excretory B. Nervous
C. Transport D. Both A and B
- Q.11** What is the name of the tube that carries sperm and urine out of the human body?
A. Penis B. Seminal vesicles
C. Urethra D. Ureter
- Q.12** These all are inorganic compounds except
A. NO₂ B. C₆H₁₂O₆
C. H₂O D. H₂SO₄
- Q.13** The highly complex duct system in male is called:
A. Scrotum B. Seminiferous tubules
C. Prepuce D. Epididymis
- Q.14** HIV AIDS is caused by which viruses?
A. Human immunodeficiency virus B. Retroviruses
C. Influenza Virus D. Paramyxoviruses

- Q.15** The ordered list of loci known for a particular genome is called?
 A. Gene map
 B. Loci
 C. Alleles
 D. Chromosomes
- Q.16** Reflex action is the simplest form of response in:
 A. Higher Animals
 B. Smaller animals
 C. Simpler animals
 D. Lowest animals
- Q.17** The floor of the chest is called:
 A. Alveoli
 B. Trachea
 C. Diaphragm
 D. Bronchi
- Q.18** Shape of the maturing phase of the golgi apparatus is?
 A. Biconcave
 B. Convex
 C. Spherical
 D. Concave
- Q.19** The selection for a trait on one extreme is called which of the following?
 A. Natural selection
 B. Directional selection
 C. Stabilizing selection
 D. All of these
- Q.20** Which of the following molecules is reduced?
 A. NAD⁺
 B. FAD
 C. O₂
 D. NADPH
- Q.21** A scientist has discovered a new species of flower in which purple coloration is dominant to white. He wishes to know the genotype of a specific purple flower. Which of the following crosses would give him a definitive answer for the purple flower genotype?
 A. Unknown purple x Homozygous purple
 B. Unknown purple x Unknown purple
 C. Unknown purple x White
 D. None of These
- Q.22** What is the breathing rate in humans during exercise?
 A. 15-20 times per minute
 B. 10-20 times per minute
 C. 20 times per minute
 D. 30 times per minute
- Q.23** What is the pH of fresh HCl?
 A. 1.5
 B. 5-7
 C. 2-3
 D. 4-5
- Q.24** The survival of an animal depends upon its ability to take some from its environment?
 A. Hydro carbons
 B. Organic molecules
 C. Chemical
 D. Inorganic molecules
- Q.25** Where is the double stranded DNA of the bacteriophage found?
 A. Tail
 B. Sheath
 C. Collar
 D. Head
- Q.26** Free living example of platyhelminthes is?
 A. Dugesia
 B. Fasciola
 C. Taenia
 D. All of These
- Q.27** Myosin filaments are close to how many times thick as actin filament?
 A. 3 times
 B. 6 times
 C. 4 times
 D. 8 times
- Q.28** What are the concentrations of the cell bodies of the neurons called?
 A. Axons
 B. Introns
 C. Ganglia
 D. Dendrites

- Q.29** What specialized enzymes do the AIDS retrovirus consist of?
 A. DNA polymerase
 B. Ligase
 C. Reverse transcriptase
 D. Helicase
- Q.30** What types of plastids aid in pollination?
 A. Chromoplast
 B. Chloroplast
 C. Leucoplast
 D. all of these
- Q.31** Which scientist discovered that bacteria cannot pass through porcelain filters?
 A. Louis Pasteur
 B. Edward Chamberland
 C. Charles Chamberland
 D. None of the above.
- Q.32** Which is the largest cell in the human body?
 A. Macrophage
 B. Ovum
 C. Granule cell
 D. None of These
- Q.33** Which scientist does not match his achievements in the following options?
 A. Lamarck published his theory of evolution
 B. Lyell published principles of geology
 C. Malthus published essay on principle of population
 D. Cuvier published papers on inheritance
- Q.34** What allows a bacteria to stain positively with gram stain?
 A. The bacteria is anaerobic
 B. The bacterial sample was pretreated with 3% ethanol
 C. The bacteria's periplasmic space
 D. The bacteria's thick peptidoglycan cell walls
- Q.35** The other names for skeletal muscles are:
 A. Striped muscles
 B. Striated muscles
 C. Involuntary muscles
 D. Both A and B are correct
- Q.36** A substance which binds at the active site of the enzyme but does not result in the formation of the products is called?
 A. Irreversible inhibitor
 B. Reversible inhibitor
 C. Non-competitive inhibitor
 D. Competitive inhibitor
- Q.37** Glycolipids in the plasma membrane are located at?
 A. Inner leaflet of the plasma membrane
 B. The outer leaflet of the plasma membrane
 C. Evenly distributed in the inner and outer leaflets
 D. Varies to cell types
- Q.38** Sub-kingdom parazoa includes:
 A. Annelida
 B. Cnidaria
 C. Porifera
 D. Protozoa
- Q.39** Polychaeta have which of the following organs?
 A. Tentacles
 B. Palps
 C. Eyes
 D. All of These
- Q.40** Eukaryotes can share which of the following structures with prokaryotes?
 A. Cell wall
 B. Nucleoid
 C. Golgi
 D. Mitochondria
- Q.41** The rate of reaction of enzyme directly depends upon which of the following?
 A. Low temperature
 B. Nature of substrate
 C. Maximum pH level
 D. Amount of enzyme present at a specific time at unlimited substrate concentration

- Q.42** Which type of bacterial genetic recombination involves the use of a viral vector?
- A. Transduction
B. Transformation
C. Binary fission
D. Conjugation
- Q.43** PS I has chlorophyll a molecule which absorbs maximum light of _____ nm?
- A. 600
B. 650
C. 680
D. 700
- Q.44** Deficiency of which element causes yellowing in plants?
- A. Magnesium
B. Iron
C. Chlorine
D. Oxygen
- Q.45** What is the length of the windpipe?
- A. 12 cm
B. 13 cm
C. 15cm
D. 20cm
- Q.46** Which of the following are the main functions of the capsid?
- A. Determines the antigenic specificity of the virus
B. Protects genetic material from nuclease attack
C. Both A and B
D. None of the above
- Q.47** Which of the following is involved in the conversion of fats to carbohydrates by oxidation of fats?
- A. Peroxisomes
B. Microsomes
C. Lysosomes
D. Glyoxysomes
- Q.48** Lock and Key model was proposed by which of the following?
- A. Koshland
B. Robin Williams
C. Rudolph Virchow
D. Emil Fischer
- Q.49** Fertilization of ovum occurs during which of the following?
- A. In uterus
B. In ovary
C. In distal part of oviduct
D. In proximal part of oviduct
- Q.50** Lamarck's ideas on biological evolution contained correct and incorrect notions. Which of his ideas is correct?
- A. Acquired traits can be passed on to offspring
B. Living forms become perfect with time
C. Nervous fluids are passed on from generation to generation
D. Evolution is related to changes in adaptation to the environment
- Q.51** The spinal cord is continuous with which part of the brain?
- A. Cerebrum
B. Cerebellum
C. Medulla oblongata
D. Pons
- Q.52** In nature, Garden pea is which of the following?
- A. Cross fertilized
B. Cross pollinated
C. Self-fertilized
D. None of These
- Q.53** The radiations most important to life are called?
- A. UV light
B. Visible light
C. Both a and b
D. None of These
- Q.54** The sperm duct from each side passes into which of the following?
- A. Ureter
B. Urethra
C. Testes
D. Abdominal cavity

- Q.55 Which of the following is a chemical link between catabolism and anabolism?**
 A. AMP
 B. ADP
 C. ATP
 D. All of These
- Q.56 Which of these is correct about thoracic duct?**
 A. It arises in the vessels of the brain
 B. It drains the entire body above the diaphragm
 C. It empties its contents into the subclavian vein
 D. It carries blood into the lymphatic system
- Q.57 Ketone is synthesized in**
 A. Adipose tissue
 B. Liver
 C. Muscles
 D. Brain
- Q.58 Normal human blood is about:**
 A. 15 ml/100 ml of blood
 B. 19.6 ml/100 ml of blood
 C. 20 ml/ 100 ml of blood
 D. 200 ml/100 ml of blood
- Q.59 A type of joint found at the articulation between teeth and the sockets of the maxilla**
 A. Syndesmosis
 B. Sutures
 C. Gomphosis
 D. None of these
- Q.60 Primordial soup is a set of hypothetical conditions on ancient earth first proposed by?**
 A. Dmitri Ivanovsky
 B. Dmitry Anuchin
 C. Nikolay Shatsky
 D. Alexander Oparin
- Q.61 Which fluid bathes the neurons of brain and spinal cord and cushions against the bumps and jolts?**
 A. Blood
 B. Interstitial fluid
 C. Intracellular fluid
 D. Cerebrospinal fluid
- Q.62 Which of the following cell structure contains the highest concentration of RNA?**
 A. Centriole
 B. Nucleus
 C. Nucleolus
 D. Mitochondria
- Q.63 Robert Hooke in 1665 reported his work on the cell in which of the following publications?**
 A. Insectia
 B. Virology
 C. Micrographia
 D. Ecology
- Q.64 These animals have only left aortic arch in their circulatory system.**
 A. Crocodiles and mammals.
 B. Birds and mammals.
 C. Mammals only.
 D. All of the above.
- Q.65 Viruses without nuclear envelope is called as?**
 A. Icosahedral virus
 B. Naked virus
 C. Enveloped virus
 D. Bilayer virus
- Q.66 Periplaneta belongs to which phylum?**
 A. Mollusca
 B. Annelida
 C. Echinodermata
 D. Arthropoda
- Q.67 Which type of light causes the highest rate of photosynthesis?**
 A. Blue
 B. Red
 C. Orange
 D. Violet
- Q.68 Which of the following is NOT found in both prokaryotes and eukaryotes?**
 A. Ribosomes
 B. Cytoskeleton
 C. Nucleolus
 D. Double-stranded DNA

CHIMESTRY

- Q.69 What is the coordination number of Cu metal in $[\text{Cu}(\text{NH}_3)_4]\text{SO}_4$?
- A. 3
B. 4
C. 6
D. 1
- Q.70 Which of the following element is present in all proteins?
- A. S
B. C
C. N
D. O
- Q.71 The reactions that needs energy are called as ___?
- A. Endothermic reactions
B. Exothermic reactions
C. Exergonic reactions
D. Heat releasing reactions
- Q.72 Molecules of liquids are in constant state of motion, it causes
- A. Diffusion
B. Evaporation
C. Melting
D. Both A & B
- Q.73 In aromatic carboxylic acids -COOH group is named as _____?
- A. Substituent
B. Parent
C. Benzoic acid
D. Both b and c
- Q.74 Quantum numbers specify the ___ of electron
- A. Shape
B. Energy
C. Position
D. All of These
- Q.75 In which phase SN_2 reactions are favored?
- A. Solid
B. Liquid
C. Gas
D. All of these
- Q.76 Which of the following remains the same in a period
- A. Nuclear charge
B. Number of electrons
C. Shielding effect
D. Ionization energy
- Q.77 Both Hydrogen and Halogens form
- A. Ionic compounds mostly
B. Unipositive ion
C. Diatomic molecule
D. Stable bond with water
- Q.78 For a sub shell $l=2$ and $m = -2, -1, , +1, +2$, it implies that it has _____ space orientation
- A. One
B. Two
C. Three
D. Five
- Q.79 Chloride Ion in NaCl are placed at the corner of regular
- A. Pentagon
B. Cuboid
C. Octahedron
D. Cube
- Q.80 During SN_1 mechanism, nucleophile can attack on the halogen carbon?
- A. From opposite side of leaving group
B. From front of leaving group
C. From both sides
D. None of these
- Q.81 Isotopes are the atoms of same element having different number of _____
- A. Electron
B. Proton
C. Positron
D. Neutron only
- Q.82 Rate determining step is also called
- A. Critical step
B. Rate Limiting step
C. Final Step
D. None of these

- Q.83 Representing Reaction in Voltaic cell symbol used for salt bridge is
 A. \cap B. $::$
 C. \equiv D. $||$
- Q.84 Conversion of straight chain hydrocarbons into branched chain is called as _____?
 A. Reforming B. Cracking
 C. Isomers D. Decomposition
- Q.85 In the reaction of NaBH_4 with aldehyde and ketones, which of the following act as Nucleophile?
 A. B^- B. H^-
 C. BH_2^- D. NaBH_3^-
- Q.86 The existence of matter in our surrounding in different states is due to the difference of
 A. Repulsive force B. Interacting force
 C. Creative force D. None of These
- Q.87 On reacting with metals carboxylic acid produces which of the following products?
 A. Salt + water B. Salt
 C. Salt + H_2 gas D. Salt + Alcohol
- Q.88 For higher yields of ammonia increase in temperature is replaced by
 A. Increasing pressure B. Decreasing volume
 C. Using catalyst D. All of these
- Q.89 Which of the following are weakest intermolecular forces?
 A. Dipole dipole forces B. Debye forces
 C. London dispersion forces D. H-bonding
- Q.90 Which oxidation is possessed by all the elements of group III B?
 A. 2 B. 3
 C. 5 D. 7
- Q.91 Which of the following is correct about octane number?
 A. Higher the octane number, higher will be knocking
 B. Higher the octane number, efficiency of fuel will be lower
 C. Higher the octane number, lower the knocking
 D. Lower the octane number, lower the knocking
- Q.92 Brittleness of Ionic solids is due to the fact that ions arrange themselves in way to,
 A. Attract each other B. Compress
 C. Repel D. Overlap each other
- Q.93 Ethanol having 10% methanol in it is called as _____?
 A. Absolute alcohol B. Methylated alcohol
 C. Rectified spirit D. Pure alcohol
- Q.94 How many hydrogen atoms are attached to tertiary carbon in tertiary butyl alcohol?
 A. 3 B. 2
 C. 1 D. 0
- Q.95 Nucleoprotein are _____ proteins which transfer heredity information from one generation to other.
 A. Transport proteins B. Structural proteins
 C. Genetic proteins D. Regulatory proteins

- Q.96** Which of the following product is obtained from the Chlorination of acetylene?
 A. 1,2,3,4-tetrachloroethylene
 B. 1,1,2,2-tetrachloroethylene
 C. 1,1,2,2-Tetrachloroethane
 D. 1,2,3,4-Tetrachloroethylene
- Q.97** The enthalpy change of a reaction which involve the formation of atom from its elements at S.T.P is called as
 A. Enthalpy of formation
 B. Enthalpy of combustion
 C. Enthalpy of neutralization
 D. Enthalpy of sublimation
- Q.98** Li is different from its family members due to
 A. Small size
 B. High charge density
 C. Less electro positivity
 D. All of the above
- Q.99** During benedict's solution test Brick red precipitates are formed due to formation of ____?
 A. CuO
 B. RCOONa
 C. Cu₂O
 D. Cu(OH)₂
- Q.100** Which of the following alcohol is most reactive in the reaction where O-H bond breaks?
 A. Primary alcohol
 B. Tertiary alcohol
 C. Methyl alcohol
 D. Secondary alcohol
- Q.101** Which of the following product is formed when phenol reacts with sulphuric acid 100 °C?
 A. Ortho-hydroxy benzene sulphonic acid
 B. Para-hydroxy benzene sulphonic acid
 C. O and P- benzene sulphonic acid
 D. Both A and B
- Q.102** Ionic solids exist in three dimensional array which is called
 A. Unit cell
 B. Lattice
 C. System
 D. All of These
- Q.103** How carboxylic acid group attached to benzene ring affect its reactivity?
 A. Make it reactive
 B. Makes ortho position of benzene more reactive than others
 C. Makes meta position of benzene more reactive than others
 D. Makes para position of benzene more reactive than others
- Q.104** Total no. of electrons present in 48 g Mg 2+ are
 A. 24NA
 B. 2NA
 C. 20NA
 D. 1 NA
- Q.105** In pig iron the concentration of C-atom is
 A. .12 — .25%
 B. 2.5 — 4.5%
 C. 2. — 4. %
 D. .25 — 2.5%
- Q.106** The molecules of solids possess kinetic energy
 A. Translational
 B. Vibrational
 C. Both A & B
 D. None of These
- Q.107** Which of the following process is an example of exothermic reaction?
 A. Evaporation
 B. Fusion
 C. Sublimation
 D. Respiration
- Q.108** If at equilibrium state temperature is increased, it will favor
 A. Exothermic Reactions
 B. Endothermic Reactions
 C. Reversible gaseous reactions
 D. Irreversible reactions

- Q.109 a photon of wavelength $1.27 \times 10^{-5} \text{ m}$ is emitted when it jumps from higher to $n = 1$, what will be higher orbit
 A. $n = 2$
 C. $n = 4$
 B. $n = 3$
 D. $n = 5$
- Q.110 What is the emf of Zn-Cu cell?
 A. 1.01V
 C. 1.1V
 B. 1.23V
 D. 1.44V
- Q.111 If no of moles of products are more than those of reactants, volume in the equilibrium expression appears in
 A. Denominator
 C. As Exponent
 B. Numerator
 D. None of these
- Q.112 2 moles of octane (C_8H_{18}) burns with 25 moles of oxygen (O_2) and produced _____ moles of carbon dioxide along with 18 moles of water
 A. 14
 C. 18
 B. 16
 D. 2
- Q.113 Proteases enzyme are example of:
 A. Lyases
 C. Ligases
 B. Hydrolases
 D. Transferases
- Q.114 Which one of the following does not give iodoform test?
 A. Acetaldehyde
 C. Butanone
 B. 3-hexanone
 D. Acetone
- Q.115 Which of the following is formed during SN_1 reactions?
 A. Secondary carbocation
 C. Tertiary carbocation
 B. Primary carbocation
 D. Methyl carbocation
- Q.116 The amount of heat required to vaporize ONE mole of liquid at its _____ is called molar heat of vaporization
 A. Melting point
 C. Freezing point
 B. Boiling point
 D. Cooling point
- Q.117 If $n = 4$ then what can be value of 'magnetic quantum number'
 A. 4,3,2,1
 C. Infinity
 B. 3,2,1
 D. None of these
- Q.118 d-block elements are called
 A. Coinage metals
 C. Transition metals
 B. Noble metals
 D. Alkali metals
- Q.119 Higher order reactions has half-life
 A. Same as first order
 B. Different from first order reactions
 C. Directly proportional to Concentration of reactants
 D. None of these
- Q.120 Calcium carbide is prepared by heating lime with coke at
 A. 25°C
 C. 27°C
 B. 26°C
 D. 28°C
- Q.121 Different type of hybridization takes place depending upon _____ of orbital's participating in hybridization
 A. Number
 C. Structure
 B. Nature
 D. Both A & B
- Q.122 Unavailability of methods to find out heat of reactions accurately makes thermochemistry
 A. Widely applicable in science
 C. A Useful aspect of Industrial research
 B. A Limited field of study
 D. None of these

- Q.123** Which of the following is an example of Tertiary alcohols?
 A. 2-methyl-3-ethylpentan
 B. 3-ethyl-3-hexanol
 C. 2-methyl-4-hexanol
 D. Isopropyl alcohol
- Q.124** What is the boiling point of acetic acid ?
 A. 120°C
 B. 118°C
 C. 110°C
 D. 87°C

PHYSICS

- Q.125** If the direction of the field and area vector is opposite then field is
 A. Positive
 B. Zero
 C. Negative
 D. None of These
- Q.126** Rate of change of displacement with respect to time is
 A. Acceleration
 B. Velocity
 C. Speed
 D. Power
- Q.127** Black body radiations are :
 A. Infrared and visible light rays
 B. All radiations
 C. Visible light and ultraviolet rays
 D. Ultraviolet and X-rays
- Q.128** Resistivity of a substance is defined as the resistance of a _____ of that substance.
 A. Meter
 B. Meter square
 C. Meter cube
 D. Centimeter
- Q.129** The sum of all forms of molecular energies (kinetic and potential) of a substance is termed as its:
 A. Absolute temperature
 B. Internal energy
 C. Potential energy
 D. Kinetic energy
- Q.130** Radioactive radiations are used to destroy
 A. Healthy cells
 B. Cancerous cells
 C. Bacteria
 D. Damaged organs
- Q.131** Which of the following is equivalent to a temperature -50C?
 A. -223K
 B. 223 K
 C. -323 K
 D. 323 K
- Q.132** The direction associated with angular displacement is given by
 A. Left hand rule
 B. Head to tail rule
 C. Right hand rule
 D. None of these
- Q.133** The value of Rydberg constant varies with atomic number as
 A. Z^3
 B. $1/Z^2$
 C. Z^2
 D. Z
- Q.134** The SI unit of electric intensity is:..
 A. Volt / meter
 B. Newton / meter
 C. Tesla
 D. Coulomb / meter
- Q.135** Ohm's law is valid at _____ temperatures
 A. Constant
 B. Varying
 C. All of them
 D. None of them
- Q.136** A longitudinal standing wave, in second harmonic mode, is established in a tube that is open at both ends. The length of the tube is 0.80 m. What is the wavelength of the waves that make up the standing wave?
 A. 0.20 m
 B. 0.40 m
 C. 0.80 m
 D. 1.60 m
- Q.137** In a half wave rectification, during negative cycle of the wave the diode is
 A. Reversed biased
 B. Forward biased
 C. Potential barrier
 D. None of these

- Q.138 One isotope of Uranium is U-238. Any other isotope of Uranium must have**
 A. 146 protons
 B. 92 protons
 C. 92 neutrons
 D. 146 neutrons
- Q.139 Work done by non conservative force is**
 A. Reversible
 B. Non-Reversible
 C. Can be both
 D. None of them
- Q.140 Blackbody shows a _____ spectra**
 A. Continuous
 B. Discrete
 C. Both a) and b)
 D. None of these
- Q.141 Radiotherapy used in treatment of cancer usually use gamma-rays from**
 A. Copper-60
 B. Cobalt-60
 C. Gold
 D. Silver
- Q.142 The distance between the consecutive wavefronts is equal to:**
 A. One wavelength
 B. Two wavelengths
 C. Radius
 D. Diameter
- Q.143 Acceleration of an object is defined as the rate of change of**
 A. Displacement
 B. Time
 C. Velocity
 D. Distance
- Q.144 Horizontal velocity vs time graph for a projectile motion is**
 A. Varies linearly
 B. Follows a parabolic path
 C. Is constant
 D. Is nonlinear
- Q.145 Cyclic path is one in which initial state is equal to**
 A. 2(final state)
 B. Final state
 C. 3(final state)
 D. Not enough information
- Q.146 Find the maximum force of the conductor having length 60cm, current 2.75A and flux density of 9 units.**
 A. 14.8
 B. 18.45
 C. 84.25
 D. 7.325
- Q.147 Existence of photon was confirmed by:**
 A. Compton
 B. De' broglie
 C. Einstein
 D. Max planck
- Q.148 Electric field lines provide information about**
 A. Field strength
 B. Direction
 C. Nature of charge
 D. All of these
- Q.149 The wavelength of x-ray is measured by _____**
 A. Diffraction
 B. Interference
 C. Reflection
 D. All of these
- Q.150 The unit of electric flux density is**
 A. N/C
 B. V/m
 C. Nm
 D. A and B
- Q.151 When heat is given to isobaric process then**
 A. Work is done by the gas
 B. Internal energy of gas decreases
 C. Both (a) and b)
 D. None of them
- Q.152 When heat is given to isobaric process then**
 A. Work is done by the gas
 B. Internal energy of gas decreases
 C. Both (a) and b)
 D. None of them
- Q.153 The resistance of a superconductor is**
 A. Finite
 B. Infinite
 C. Zero
 D. Changes with every conductor

- Q.154** Specific latent heat of fusion of ice is 334 J/g. How much energy is needed to melt 100 g of ice at 0°C.
 A. 33.4 J
 B. 33.4 kJ
 C. 3.34 J
 D. 3.34 kJ
- Q.155** The molar specific heat of a diatomic gas is measured at constant volume and found to be 29.1 J/mol · K. What are the types of energy that are contributing to the molar specific heat?
 A. Translation only
 B. Translation and rotation only
 C. Translation and vibrational only
 D. Translation, rotation, and vibrational
- Q.156** The battery of a pocket calculator supplies 0.35A at a potential difference of 6 volts. What is the power of the calculator?
 A. 9 Watt
 B. 2.1 Watt
 C. 4 Watt
 D. 7 Watt
- Q.157** A charge of 2 C placed in electric field of 10 N/C what will be the work done in moving charge a distance of 5 m
 A. 100 J
 B. 50 J
 C. 150 J
 D. 200 J
- Q.158** In a double slit experiment the second order maximum occurs at $\theta = 0.25^\circ$. The wavelength is 650 nm. Determine the slit separation
 A. 0.30 mm
 B. 0.30 cm
 C. 0.30 nm
 D. 0.30 m
- Q.159** For a straight trajectory of a particle instantaneous velocity is
 A. 2*(average velocity)
 B. Average velocity
 C. Zero
 D. Not enough info
- Q.160** Among the following four spectral regions, in which of them, the photon has the highest energy in?
 A. Infrared
 B. Violet
 C. Blue
 D. Ultraviolet
- Q.161** the force that keeps the body moving in circular motion is:
 A. Centripetal force
 B. Centrifugal force
 C. Force of gravity
 D. None of these
- Q.162** The use of a capacitor filter in a rectifier circuit gives satisfactory performance only when the load
 A. Current is high
 B. Current is low
 C. Voltage is high
 D. Voltage is low
- Q.163** 1 Joule is equal to
 A. 10^4 erg
 B. 10^5 erg
 C. 10^6 erg
 D. 10^7 erg
- Q.164** Self-inductance varies with the applied current in coil as
 A. I^2
 B. $1/I$
 C. I
 D. Remains unchanged
- Q.165** If a charge particle enters in a region where electric and magnetic field are parallel to its motion, then it will
 A. Deflect upwards
 B. Deflect downward
 C. Speed up
 D. Speed down
- Q.166** Electric intensity and electric potential are related as:
 A. Electric field intensity is equal to the negative of the gradient of electric potential
 B. Electric field intensity is equal to the gradient of electric potential

- C. Electric field intensity is equal to the square of the gradient of electric potential
 D. Electric field intensity is equal to the twice of the gradient of electric potential
- Q.167 Magnetic flux is zero**
 A. When angle is 90
 B. Angle is 0
 C. Angle is 180
 D. None of these
- Q.168 A constant force is applied on a body of 2 kg to give it a displacement $s = t^{2.2}$. Work done by agent applying the force upto time $t=3$ sec is**
 A. 3 J
 B. 9 J
 C. 18 J
 D. 2 J
- Q.169 A pipe is open at both ends. A stationary wave is formed in the air of the pipe. Which statement is true:**
 A. There is always a central antinode
 B. There is always a central node
 C. The sum of number of nodes and the number of antinodes is always an even number
 D. The sum of number of nodes and the number of antinodes is always an odd number
- Q.170 One coulomb charge is carried by:**
 A. 6.25×10^{18}
 B. One electron
 C. One proton
 D. 1.6×10^{-19}
- Q.171 The shortest distance between two points on a travelling wave that have a phase difference of $(\pi/3)$ is 5 cm. If the wave has frequency 500 Hz, what is the speed of the wave?**
 A. 300 m/s
 B. 150 m/s
 C. 300 cm/s
 D. 150 cm/s
- Q.172 Acceleration can be seen in**
 A. Uniformly moving frame of reference
 B. Rest frame of reference
 C. Rotating frame of reference
 D. None of these
- Q.173 A monatomic gas at pressure P and Volume V expands isothermally to volume 2V and then adiabatically to volume 16V. The final pressure is**
 A. 16P
 B. 64P
 C. 32P
 D. P/64
- Q.174 Electric current may be defined as**
 A. Rate of flow of charge
 B. Rate of flow of momentum
 C. Rate of flow of power
 D. None of them
- Q.175 300 W heater is used to boil 500g of water at 100°C. How long should the heater be switched on? Specific latent heat of vaporization of water is 2230 J/g.**
 A. 62 mins
 B. 62 sec
 C. 1.5 hour
 D. 0.5 hour
- Q.176 The unstable atom means**
 A. Electrons are increasing
 B. Protons are increasing
 C. Neutrons are increasing
 D. Any of these
- Q.177 A wire has a resistance of 5.5 Ω at 19°C and 21.5 Ω at 200°C. Find the temperature coefficient of resistivity (α) of the material.**
 A. 0.016 per degree Celsius
 B. 32 per degree Celsius
 C. 0.018 per degree Celsius
 D. 0.00106 per degree Celsius
- Q.178 A half wave rectifier is operating from 50 Hz mains. Fundamental frequency of ripple will be**
 A. 100 Hz
 B. 25 Hz
 C. 200Hz
 D. 50Hz

- Q.179** In pair production..... are produced :
- A. Positron & electron
B. Photons
C. Electron & neutron
D. B & C are correct
- Q.180** Face of coil having clockwise current
- A. Behaves like north pole
B. Behaves like south pole
C. Becomes magnet of varying poles
D. Does not behaves like magnet

ENGLISH

- Q.181** Choose the correct sentence.
- A. Samar bought an apple, an orange and an pear.
B. Samar bought an apple a orange and a pear.
C. Samar bought an apple, an orange and a pear.
D. Samar bought a apple, an orange and a pear.
- Q.182** Do you wear _____ uniform to school?
- A. A
B. An
C. The
D. No Article
- Q.183** We _____ to school every day
- A. Goes
B. Go
C. Went
D. Gone
- Q.184** The sun _____ in the west.
- A. Rise
B. Rises
C. Rose
D. Risen
- Q.185** I think _____ bread is stale.
- A. A
B. An
C. The
D. No Article
- Q.186** Asif tried to stop the car but the _____ did not work and he hit a pole.
- A. Brakes
B. Crossroads
C. Tires
D. Controls
- Q.187** Your performance _____ our expectations.
- A. Except
B. Excelled
C. Exceeded
D. Expected
- Q.188** You cannot eat that mango. It is not _____ yet.
- A. Best
B. Pale
C. Ripe
D. Mature
- Q.189** If you _____ (start) at once you can reach by 6'o clock.
- A. Start
B. Starting
C. Starts
D. Have Started
- Q.190** Choose the correct spelling of the word
- A. Servant
B. Servent
C. Sarvant
D. Sarvent
- Q.191** Choose the correct sentence.
- A. Today was her sisters birthday so she took her out for dinner.
B. Today was her sister's birthday, so she took her out for dinner.
C. Today was her sister's birthday so she took her out for dinner.
D. Today was her Sister's birthday, so she took her out for dinner.
- Q.192** How ridiculous this is!
- A. Declarative
B. Imperative
C. Interrogative
D. Exclamatory
- Q.193** I _____ (am) working all afternoon and have just finished the assignment.
- A. Had been
B. Have been
C. Am
D. Shall be

- Q.194 A lot of houses _____ collapsed due to the the storm.
 A. Has
 B. Are
 C. Have
 D. Were
- Q.195 None _____ none under the sun.
 A. Is
 B. Are
 C. Were
 D. Was
- Q.196 The book is about _____ man who lives on _____ small island.
 A. A... an
 B. A...a
 C. A...the
 D. An...an
- Q.197 Choose the correct tense: "He goes to school".
 A. Present
 B. Past
 C. Future
 D. None
- Q.198 Choose the correct sentence.
 A. When Sheila arrived she said, "please fix me some hot tea; i'm so cold!"
 B. When Sheila arrived she said, "Please fix me some hot tea; Im so cold!"
 C. When Sheila arrived she said, "Please fix me some hot tea, I'm so cold!"
 D. When Sheila arrived she said, "Please fix me some hot tea; I'm so cold!"
- Q.199 You can get (A)/ all the information (B) you want (C) from this book. (D)
 A. You can get
 B. All the information
 C. You want
 D. From this book.
- Q.200 Which one is correct?
 A. Had she clean her home?
 B. Is that she cleaned her home?
 C. Did she clean her home?
 D. Has she cleaned her home?

LOGICAL REASONING

- Direction to solve
- Q.201 The hotel is two blocks east of the drugstore. The market is one block west of the hotel. The drugstore is west of the market. If the first two statements are true, the third statement is
 A. Ture
 B. FALSE
 C. Maybe
 D. Unresolved
- Statements and Actfons
- Q.202 Statement A smoker has left smoking suddenly a. He will feel restlessness and anxiety. b. He will start gaining weight
 A. Both of them follows
 B. None of them follows
 C. Only b follows
 D. Only a follows
- Verbal Classification
- Q.203 Which one does not belong to others?
 A. Apple
 B. Mango
 C. Cucumber
 D. Orange
- Essential parts
- Q.204 What should come next to It bonus
 A. Reward
 B. Raise
 C. Employer
 D. Cash
- Dependent Causes/ Independent Causes/
- Q.205 Statement: All the schools in the area had to be kept closed for most part of the week. Many parents have withdrawn their children from the local schools.
 A. Statement I is the cause and statement II is its effect.
 B. Statement II is the cause and statement I is its effect
 C. Both the statements I and II are independent causes

- D. Both the statements I and II are effects of independent causes
- Making Judgements**
- Q.206** A book always has
- A. Pages
B. Contents
C. Chapter
D. Images
- Statements and Conclusions**
- Q.207** Statements Pakistan is a multilingual country. Urdu is the national language of Pakistan. Conclusions (I) All Pakistanis should learn many languages. (II) To be an Indian one needs to learn Urdu.
- A. Only conclusion (I) follows
B. Only conclusion (II) follows
C. Both conclusions follow
D. Both of them do not follow
- Analogies**
- Q.208** Durandal is to race as sleep is to
- A. Winter
B. Bear
C. Dream
D. Hibernation
- Verbal Reasoning**
- Q.209** FESCO stands for _____
- A. Faizabad Electricity Supply Company
B. Frontier Electricity Supply Company
C. Faisalabad Electric Supply Company
D. Federal Electric Supply Company
- Answer on Passage**
- Q.210** A four-person crew from Classic Colors is painting Mr. Zohalb's house. Ahmed is painting the front of the house. Maira is in the alley behind the house painting the back. Ayesha is painting the window frames on the north side, Hamza is on the south. If Zohalb switches places with Ayesha, and Ayesha then switches places with Hamza, where is Hamza?
- A. In the alley behind the house
B. On the north side of the house
C. In front of the house
D. On the south side of the house

As we know there is lot of mistakes in answer keys of
PMC Practice tests, so I have decided to rectify all in
proper in SKN STUDY GROUP

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