

PMC PRACTICE TEST 16

PHYSICS

- Q.1** Which of the following is not a conservative force
- A. Friction
 - B. Electric
 - C. Magnetic
 - D. Gravitational
- Q.2** The SI Unit of electric charge is?
- A. Coulomb
 - B. Ampere
 - C. Hertz
 - D. Volt
- Q.3** Which of the following is equivalent to a temperature -150°C ?
- A. 123K
 - B. -123 K
 - C. 423 K
 - D. -423 K
- Q.4** A horizontal line in displacement-time graph represents: ...
- A. Uniform accelerated motion.
 - B. Motion with constant velocity
 - C. Motion with constant speed
 - D. Body at rest
- Q.5** What is the duration of one cycle known as
- A. Period
 - B. Cycle
 - C. Instantaneous value
 - D. Sin wave
- Q.6** Wave nature of electron is similar to
- A. Proton
 - B. Beta rays
 - C. Gamma rays
 - D. All of these
- Q.7** When an ideal gas of constant mass is heated in a container of fixed volume. What is the reason for the increase in pressure of the gas?
- A. Number of molecules per unit volume increases
 - B. Molecules occupy greater volume of the container
 - C. Average force per impact at the container wall increases
 - D. Molecules collide with each other with greater force
- Q.8** The basic reason why a full wave rectifier has twice efficiency than half wave rectifier because
- A. it uses transformer
 - B. its ripple factor is much less
 - C. it uses both cycle as input
 - D. Output frequency is double the line frequency
- Q.9** Coherent sources are...
- A. Monochromatic sources
 - B. Sources which produce waves of equal amplitude
 - C. Monochromatic sources which produce waves of constant phase difference
 - D. Sources which produce wave of same frequency

- Q.10** What is 1 radian in degrees approximately
- A. 57.3 degrees
 - B. 360 degrees
 - C. π degrees
 - D. π^2 degrees
- Q.11** The direction of the restoring force is always towards:
- A. Right hand
 - B. Up ward
 - C. Rest or mean position
 - D. Extreme position
- Q.12** The process by which a heavy nucleus splits up into lighter nuclei is known as
- A. Fission
 - B. Fusion
 - C. Alpha-decay
 - D. A chain reaction
- Q.13** The fission reaction is slow reaction
- A. TRUE
 - B. FALSE
 - C. True when neutrons slows down
 - D. Any of these
- Q.14** Force acting on a positive charge is always:....
- A. In the direction opposite to electric field
 - B. In the direction of electric field
 - C. In the direction perpendicular to electric field
 - D. In the direction perpendicular to the velocity of charge
- Q.15** Einstein was awarded Nobel Prize for his work on
- A. Photoelectric effect
 - B. Nuclear fission
 - C. Theory of relativity
 - D. all are correct
- Q.16** You have three capacitors, each of $2 \mu\text{C}$. In which of the following combinations of the three capacitors, the resultant capacitance is $5\mu\text{C}$?
- A. All three capacitors in series
 - B. Two capacitors are in series, one in parallel
 - C. Two capacitors are in parallel, one in series
 - D. All three capacitors in parallel
- Q.17** A 1.0 kW heater supplies energy to a liquid of mass 1 kg. The temperature of the liquid changes by 80 K in a time of 400 s. The specific heat capacity of the liquid is $4.0 \text{ kJ} / \text{kg} \cdot \text{K}$. What is the average power lost by the liquid?
- A. 100
 - B. 200
 - C. 400
 - D. 800
- Q.18** A 3 cm wire carrying a current of 10A is placed inside a solenoid of magnetic field 0.35 T .The Net force felt by wire is
- A. 11.5N
 - B. 10.5N
 - C. 9.5N
 - D. 8.5N

- Q.19** Whenever a transverse wave travelling in a denser medium, is reflected from the boundary of the rarer medium...
- A. The direction of its displacement remains same
 - B. The direction of its displacement is reversed
 - C. The displacement disappears
 - D. The displacement becomes double
- Q.20** According to Faraday's Law, emf induced in circuit depends on
- A. Max. magnetic flux
 - B. Rate of change of magnetic flux
 - C. Change in magnetic flux
 - D. Initial flux
- Q.21** A point on a wheel has a constant angular velocity of 3 rad/s. The angle turned through in 15 seconds is:
- A. 45 rad
 - B. 10π rad
 - C. 90π rad
 - D. 5 rad
- Q.22** Which of the following about C_p and C_v is correct?
- A. $C_p + C_v = R$
 - B. $C_p = R - C_v$
 - C. $C_p + R = C_v$
 - D. $C_p = R + C_v$
- Q.23** According to Bohr's principle, what is the relation between the principal quantum number and the radius of the orbit?
- A. $r \propto n$
 - B. $r \propto 1/n$
 - C. $r \propto n^2$
 - D. $r \propto 1/n^2$
- Q.24** Coulomb per volt is called:...
- A. Ampere
 - B. Electron volt
 - C. Joule
 - D. Farad
- Q.25** The resistance of a conductor at absolute zero (0 K) is
- A. Almost zero
 - B. Almost infinite
 - C. No prediction at all
 - D. May increase or decrease
- Q.26** Dual nature of light is proved by :
- A. Davisson and German's experiment
 - B. Black body radiation
 - C. Compton's effect
 - D. Photoelectric effect
- Q.27** Transformer is based on the theory of
- A. Self inductance only
 - B. Mutual inductance
 - C. Capacitive effect
 - D. All of these

- Q.28** x-rays can be deflect by
A. Electric field
B. Magnetic field
C. Both A & B
D. None of these
- Q.29** A particle moves from point P(1,2,3) to Q(2,1,4) under the action of a constant force $F = (2i + j + k)$, work done by force is
A. 2 J
B. 4 J
C. 16 J
D. 8 J
- Q.30** What will be the decay constant of 1 Curie sample of radioactive substance of mass 214, its half-life is 26.8 min?
A. 4.31×10^{-4}
B. 4.31×10^{-5}
C. 4.31×10^5
D. 0.431
- Q.31** According to Wien's law temperature and wavelength are ____ related
A. Equal
B. Inversely
C. Directly
D. None of these
- Q.32** Centrifugal force is a
A. Real force
B. Friction force
C. Pseudo force
D. None of these
- Q.33** At the highest point of trajectory which of the following quantities is zero
A. Horizontal velocity
B. Total velocity
C. Vertical velocity
D. None of these
- Q.34** The Davisson Germer experiment is used to explain
A. Interference
B. Polarization
C. Diffraction
D. None of these
- Q.35** A potentiometer is used to measure the emf of a cell. At null point, no current flows through _____
A. The main circuit
B. The cell circuit
C. Both the main and cell circuits
D. The potentiometer wire
- Q.36** A car is moving in a circular track of diameter 100m at a constant speed of 40m/sec. Find the centripetal acceleration?
A. 42 m/s^2
B. 52 m/s^2
C. 32 m/s^2
D. 30 m/s^2

- Q.37** When path difference between two waves are odd integral multiple of half the wavelength, the resultant effect is called
- Destructive interference
 - Constructive interference
 - Beats
 - Diffraction
- Q.38** If the peak to peak voltage is 10V, calculate the peak voltage.
- 2V
 - 10V
 - 4V
 - 5V
- Q.39** Slope of adiabatic(k_s) and isothermal(k_t) curve related as
- $k_s = \gamma k_t$
 - $k_s = k_t / \gamma$
 - $k_s = k_t$
 - $k_s = 2k_t$
- Q.40** A square loop of side 2 m is placed in a 5 T of magnetic field. What will be the related flux?
- 2.5 Weber
 - 5 weber
 - 10 weber
 - 20 weber
- Q.41** An element X with Z 14 and A 6 has how many neutrons
- 6
 - 8
 - 14
 - 20
- Q.42** At which angle work done is minimum
- 45 degree
 - 90 degree
 - 0 degree
 - 180 degree
- Q.43** The output voltage of a rectifier is
- Smooth
 - Pulsating
 - Perfectly direct
 - Alternating
- Q.44** A current of 16 amperes divides between two branches in parallel of resistances 8 ohms and 12 ohms respectively. The current in each branch is
- 6.4 A, 6.9 A
 - 6.4 A, 9.6 A
 - 4.6 A, 6.9 A
 - 4.6 A, 9.6 A
- Q.45** Which set of elements have three isotopes
- O,H
 - O,Cl
 - Cl,Hg
 - All of them
- Q.46** Value of current in a short circuit is _____
- Infinite

- B. Zero
C. Minimum
D. Maximum
- Q.47** The energy input to an engine is 4.00 times greater than the work it performs. What is its thermal efficiency?
A. 4.00
B. 1.00
C. 0.25
D. Impossible to determine
- Q.48** 100 W heater is switched on for 5 minutes to melt ice. What is the mass of ice that melts at 0°C. Specific latent heat of fusion of ice is 334 J/g.
A. 90 g
B. 90 kg
C. 1.5 g
D. 1.5 kg
- Q.49** Magnetic field is very strong where field lines are
A. Zero
B. Far apart
C. Very close
D. None of these
- Q.50** A capacitor stores 5.3×10^{-5} C of charge when connected to a 6.0-V battery. How much charge does the capacitor store when connected to a 9.0-V battery?
A. 79.5 μ C
B. 35.3 μ C
C. 79.5 pC
D. 35.3 pC
- Q.51** A material is made with two different shapes, which surface will absorb more heat in less time
A. Rectangular shape of larger area
B. Circular shape of smaller area
C. Both will absorb same heat
D. Heat absorption is independent of shape of material
- Q.52** Calculate the time taken for the charges to complete the circuit if the total charges were 5000 Coulomb and the current of the circuit was 20 Amp?
A. 250 seconds
B. 350 seconds
C. 400 seconds
D. 500 seconds
- Q.53** x-rays cannot detect
A. Sugar
B. Blood pressure
C. Cholesterol
D. All of these
- Q.54** The linear momentum is increased by 10%, percentage change in the kinetic energy will be
A. 0.21
B. 0.11
C. 0.22
D. 0.1

- Q.55** The activity of a certain nuclei decreases to 15 % of its original value in 10 days. Find its half life?
- A. 2 days
 - B. 2. days
 - C. 3.65 days
 - D. 4 days\
- Q.56** The angular velocity of a minute hand of a clock is?
- A. $2\pi/60 \text{ rads}^{-1}$
 - B. $\pi/24 \text{ rads}^{-1}$
 - C. $2\pi/3600 \text{ rads}^{-1}$
 - D. $\pi/3600 \text{ rads}^{-1}$

BIOLOGY

- Q.57** Lymphoid masses are present in the walls of:
- A. Digestive tract
 - B. Mucosa
 - C. Submucosa
 - D. All of these are correct
- Q.58** Which of the following proteins does not play a functional role in creating the force-tension curve of muscle contraction?
- A. Titin
 - B. Myosin
 - C. Actin
 - D. All of these
- Q.59** Reflex action is controlled by:
- A. Peripheral nervous system
 - B. Central nervous system
 - C. Autonomic nervous system
 - D. Circulatory system
- Q.60** Thylakoids in chloroplasts are stacked into?
- A. Grana
 - B. Stroma
 - C. Nucleus
 - D. None of these
- Q.61** Which of the following is the most complex sugar?
- A. Monosaccharides
 - B. Oligosaccharides
 - C. Polysaccharides
 - D. Carbohydrates
- Q.62** Decreasing V_{max} in uncompetitive inhibition also decreases?
- A. K_m
 - B. K_o
 - C. V_o
 - D. Both A and B
- Q.63** Bottlenecks increases the affect of which of the following?
- A. Genetic linkage
 - B. Genetic expression
 - C. Genetic diversity
 - D. Gene pool
- Q.64** The abundant inhibitory neurotransmitter found in the CNS is called?
- A. Gamma-glutamyltransferase

- B. Gamma-linolenic acid
C. Gamma-Aminobutyric acid
D. None of these
- Q.65 The time when the sex organs start to become active is called:**
A. The fertile period
B. Adulthood
C. Pregnancy
D. Puberty
- Q.66 Developing seeds are rich source of which of the following?**
A. Auxins
B. Gibberellins
C. Cytokinins
D. All of these
- Q.67 Garden snail belongs to which class of Mollusca?**
A. Gastopoda
B. Cephalopoda
C. Myriapoda
D. None of them
- Q.68 Mating with non-relatives is known as?**
A. Inbreeding
B. Outbreeding
C. Breeding
D. None of these
- Q.69 The size of Spirochete is approximately?**
A. 0.75-1.25 μm
B. 100-200 nm
C. 0.1 -600 μm
D. 500 μm
- Q.70 The movement of genes from one species to another is?**
A. Penetrance
B. Expressivity
C. Codominance
D. Linkage
- Q.71 Both radial and bilateral symmetry is found in which of the following phylum?**
A. Protozoa
B. Porifera
C. Echinodermata
D. All of these
- Q.72 What is the structure in prokaryotic cells that often holds antibiotic resistance genes?**
A. Nucleus
B. Plasmid
C. Mitochondria
D. Both A and B
- Q.73 The pores through which water enters the sponge body are called:**
A. Osculi
B. Ostia
C. Opercula
D. None of the above

- Q.74** The fibrous connective tissue which attaches bone to bone is called:
- A. Tendon
 - B. Ligament
 - C. Reticular tissue
 - D. Cartilage
- Q.75** A population of birds encounters a dramatic event that results in a severe decrease in population size. As a result of the newly-decreased population, what type of genetic drift does this population now exhibit?
- A. Artificial selection
 - B. Founder affect
 - C. Bottleneck affect
 - D. Both A and B
- Q.76** A complex cartilaginous structure surrounding the upper end of the trachea is called:
- A. Glottis
 - B. Voice box
 - C. Epiglottis
 - D. Vocal cords
- Q.77** Out of 31 pairs of spinal nerves, how many pairs of sacral nerves are there?
- A. 5
 - B. 10
 - C. 12
 - D. 15
- Q.78** The breaking of terminal phosphate of ATP yields?
- A. 7 Kcal
 - B. 8 Kcal
 - C. 7.5 Kcal
 - D. 7.3 Kcal
- Q.79** All of the following coelenterates show alternation of generation except?
- A. Hydra
 - B. Obelia
 - C. Aurellia
 - D. All of these
- Q.80** Darwin was greatly influenced by
- A. Essay on population by Malthus
 - B. Lamark's theory
 - C. L-Miller's evidence for origion of life
 - D. Mendel's paper on inheritance
- Q.81** The lipid vesicles used for drug delivery system called
- A. Inositides
 - B. Lipoproteins
 - C. Liposomes
 - D. Drugoles
- Q.82** S-band locomotion is characteristically seen in which of the following?
- A. Bony fish
 - B. Fish like mammals
 - C. Cartilaginous fish
 - D. All of these
- Q.83** What affect do enzymes have on the activation energy of a reaction?
- A. Increases

- B. Decreases
C. No affect
D. Increases or decreases depending upon individual enzyme
- Q.84 What is the correct sequence of steps in cell fractionation?**
A. Homogenization, centrifugation, separation.
B. Separation, homogenization, centrifugation.
C. Centrifugation, homogenization, separation.
D. Homogenization, separation, centrifugation.
- Q.85 In the chest wall, the rib muscles are considered as**
A. Intercostal muscles
B. Pulmonary muscles
C. Both and A and B
D. Coastal muscles
- Q.86 The optimal temperature for enzymes to work in body is how many degree celcius?**
A. 30
B. 32
C. 35
D. 37
- Q.87 The phage that causes the lytic cycle is called?**
A. Virulent phage
B. Lytic phage
C. Temperate phage
D. Both A and B
- Q.88 Which of the following would best determine the fitness of an organism?**
A. The number of offspring produced by the organism.
B. How much food the organism consumes in its lifetime.
C. How large the organism grows.
D. The number of offspring produced by the organism's own offspring.
- Q.89 Which group of animals is not a deuterostome?**
A. Echinodermata
B. Arthropoda
C. Mollusca
D. Both B and C
- Q.90 Sperms are produced in:**
A. Urethra
B. Pancreas
C. Sperm duct
D. Testis
- Q.91 The epiglottis, a flap of tissues covers the**
A. Pharynx
B. Larynx
C. Glottis
D. Nasal cavity
- Q.92 Resumption of normal growth by a dormant embryo is called?**
A. Seed dormancy
B. Fruit ripening
C. Germination
D. All of these
- Q.93 The Venus flower basket is also known as which of the following?**

- A. Sycon
B. Leucosolenia
C. Spongilla
D. Euplectella
- Q.94 The cell wall of Archaeobacteria does not contain which of the following?**
A. Glycoproteins
B. Polysaccharides
C. Proteins
D. Peptidoglycan
- Q.95 Flagella might have arisen through the ingestion of which of the following?**
A. Cyanobacteria
B. Chlamydomonas
C. Paramecium
D. Spirochetes
- Q.96 Coenzyme Q is oxidised by which coenzyme in the ETC?**
A. Coenzyme c
B. Coenzyme q
C. Cytochrome b
D. Cytochrome a
- Q.97 The gene for muscular dystrophy is X-linked. A female carrier and an unaffected male have one daughter together. The daughter has a son with an unaffected male. What is the probability that the son will not be affected?**
A. 25%
B. 50%
C. 75%
D. 1
- Q.98 Interneuron is also known as:**
A. Relay neuron
B. Sensory neuron
C. Mixed neuron
D. Synapse
- Q.99 What is the shape of the poliovirus?**
A. Rod
B. Spherical
C. Tadpole
D. Helical
- Q.100 What is meant by enzyme denaturation?**
A. Peptide bonds between amino acid residues are broken.
B. The enzyme loses its secondary structure.
C. The enzyme loses its tertiary structure.
D. All of the above.
- Q.101 Which of the following statements are true about the viruses?**
A. Free living
B. Obligate parasites
C. Both A and B
D. None of the above
- Q.102 Which of the following is a form of asexual reproduction in prokaryotic cells?**
A. Binary fission and mitosis
B. Binary fission and meiosis

- C. Binary fission and transformation
D. Binary fission
- Q.103 What is the length of duodenum in cm?**
A. 15-20
B. 20-25
C. 21-25
D. 25-30
- Q.104 How is the ATP molecule used by the cell?**
A. Synthesis of complex compounds
B. Active transport
C. Muscular contraction
D. All of these
- Q.105 What is the coenzyme that facilitates the oxidation of fumarate?**
A. FAD
B. PADH2
C. NAD
D. NADPH
- Q.106 In the peripheral nervous system, the nerves that arise from spinal cord and brain are called?**
A. Cranial nerves
B. Spinal nerves
C. Frontal nerves
D. Both A and B
- Q.107 The human menstrual cycle generally repeats after how many days?**
A. 20 days
B. 28 days
C. 10 days
D. 40 days
- Q.108 Which is true regarding open chain structure of glucose**
A. There are six asymmetric carbon
B. There are five asymmetric carbons
C. There are four asymmetric carbon
D. There are three asymmetric carbon
- Q.109 The flow of sap from cut plants is:**
A. Bleeding
B. Plasmolysis
C. Imbibition
D. Guttation
- Q.110 Which of these does not contain cartilage?**
A. Bronchioles
B. Larynx
C. Trachea
D. Bronchi
- Q.111 An inhibitor is added, disrupting the function of a particular enzyme. The experimenter adds more substrate, and enzyme function increases again. These results indicate the involvement of what type of inhibitor?**
A. Noncompetitive
B. Uncompetitive
C. Allosteric
D. Competitive

- Q.112** Of the following, which one is a light gathering structure?
- A. Antenna complex
 - B. Reaction center
 - C. Photosystem
 - D. None of these
- Q.113** Which of the following changes could lead to loss of enzymatic function?
- A. Decrease in activation energy of the reaction
 - B. Increase in enzyme concentration
 - C. Change in overall enthalpy of the reaction
 - D. Increase in pH of the reaction
- Q.114** What's the difference between homologous and analogous structures?
- A. Homologous structures result from a common ancestor; analogous structures result from repetitive usage by the individual
 - B. Homologous structures result from convergent evolution; analogous structures result from a common ancestor
 - C. There is no difference between homologous and analogous structures
 - D. Homologous structures result from a common ancestor; analogous structures result from convergent evolution
- Q.115** The diencephalon comprises of:
- A. Pons and medulla
 - B. Thalamus and limbic system
 - C. Pons and medulla
 - D. Hypothalamus and limbic system
- Q.116** One similarity between annelids and arthropods:
- A. Closed circulatory system.
 - B. Nitrogenous waste product is uric acid.
 - C. Ventral nerve cord.
 - D. None of the above.
- Q.117** In Klinefelter's syndrome:
- A. One X chromosome is missing
 - B. Sex chromosome fail to segregate
 - C. Additional sex chromosome is present
 - D. None of these
- Q.118** Which one of the following statements is incorrect?
- A. Eggs in the ovaries ripen when they meet a sperm
 - B. Girls are born with thousands of eggs in their ovaries.
 - C. Hormones control the release of the egg from the ovary.
 - D. One egg is released from the ovary about every month.
- Q.119** One similarity between annelids and arthropods:
- A. Closed circulatory system.
 - B. Nitrogenous waste product is uric acid.
 - C. Ventral nerve cord.
 - D. None of the above.
- Q.120** Which factors may help determine the antigenicity of a virus?
- A. Capsomeres
 - B. Size of virus
 - C. Whole capsid
 - D. Internal proteins
- Q.121** Which of the following is not a true characteristic of gametocytes?
- A. Male gametocytes are called spermatocytes

- B. Gametocytes can divide by mitosis into other gametocytes
- C. Female gametocytes are called oocytes
- D. They are eukaryotic somatic cells

Q.122 Breathing and heart rate is controlled by which of these?

- A. Corpus callosum
- B. Hippocampus
- C. Medulla
- D. Thalamus

Q.123 The outer and inner membranes of mitochondria Spindle are?

- A. Structurally and functionally different
- B. Structurally different but functionally similar
- C. Structurally and functionally similar
- D. Structurally similar but functionally different

Q.124 Fatty acids release considerable amount of energy in oxidation and ____

- A. Calvin cycle
- B. Kreb's cycle
- C. Dark reaction
- D. Light reactions

CHEMISTRY

Q.125 Which of the following is the function of formalin?

- A. Antiseptic
- B. Disinfectant
- C. Germicide
- D. All of these

Q.126 The solids which does not possess the regular arrangement of atoms are called as ____?

- A. Amorphous solids
- B. Crystalline solids
- C. Polymorphic solids
- D. Isomorphic solids

Q.127 Which one is not member of Alkali metals?

- A. Na
- B. K
- C. Cs
- D. Mg

Q.128 Ethene is prepared from alcohol by ____?

- A. Decomposition
- B. Dehydration
- C. Dehydroxylation
- D. Dehalogenation

Q.129 In tertiary alkyl halides, carbon atoms is attached to how many carbon atoms?

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

Q.130 Which one contain non polar covalent bond

- A. H₂
- B. Cl₂
- C. N₂ and O₂

- D. All of these
- Q.131 What is the S.I. unit of pressure?**
- A. Nm^{-2}
 - B. Nm^2
 - C. mm of Hg
 - D. Atm
- Q.132 Empirical formula and molecular formula of covalent molecule is**
- A. Different
 - B. Same
 - C. Variable
 - D. Equal
- Q.133 A voltaic cell produces electrical energy from**
- A. Potential energy
 - B. Chemical energy of Ions
 - C. Kinetic Energy
 - D. Free Electrons
- Q.134 The forces present within a molecule are called as _____?**
- A. Intermolecular forces
 - B. Van der Waal forces
 - C. Chemical bond
 - D. Weak forces
- Q.135 Kinetic energy of the molecule may be all of the following except?**
- A. Vibrational
 - B. Translational
 - C. Rotational
 - D. Static
- Q.136 The radius of Bohr's atom depends on the following**
- A. $1/n$
 - B. n^2
 - C. $1/n^2$
 - D. n
- Q.137 The unit for Van der Waals constant 'b' is**
- A. mol dm^{-3}
 - B. dm^3
 - C. $\text{m}^3 \text{mol}^{-1}$
 - D. $\text{m}^3 \text{mol}$
- Q.138 Formic acid is obtained from _____?**
- A. Apples
 - B. Butter
 - C. Ant's sting
 - D. Foam
- Q.139 The products of SN_1 reactions are formed with _____?**
- A. Retention in configuration
 - B. Inversion in Configuration
 - C. 50% retention and 50% inversion in configuration
 - D. All of these
- Q.140 Why aldehydes are more reactive than ketones?**
- A. Electronic reasons
 - B. Steric hindrance
 - C. Both a and b

- D. None of these
- Q.141** Three dimensional folding of polypeptide chain results in formation of_____.
- A. Primary structure
 - B. Secondary structure
 - C. Tertiary structure
 - D. Quaternary structure
- Q.142** Maximum Hydrogen bonding is found in
- A. Chlorine
 - B. Ammonia
 - C. Water
 - D. Hydrochloric acid
- Q.143** The increase in atomic radii in _____ is due to increase in the number of shells and the screening effect
- A. Groups
 - B. Periods
 - C. Both A & B
 - D. None of these
- Q.144** 1,4-dimethyl benzene is called as _____?
- A. Ortho xylene
 - B. Para-xylene
 - C. Para-methyl toluene
 - D. Meta-methyl toluene
- Q.145** Equilibrium curve can be drawn by plotting
- A. Time and Speed
 - B. Temperature and Pressure
 - C. Time & Concentration
 - D. Pressure & Concentration
- Q.146** The melting points and boiling points up to the middle of 3d- series
- A. Increases
 - B. Decreases
 - C. Remain same
 - D. No regular trend
- Q.147** Hess law is a simple application of
- A. Law of Mass Action
 - B. Law of conservation of energy
 - C. Law of conservation of mass
 - D. Dalton's Law of partial pressure
- Q.148** Protein component of enzyme is called_____.
- A. Coenzyme
 - B. Cofactor
 - C. Apo-enzyme
 - D. Prosthetic group
- Q.149** Planck's constant is defined as the _____ of energy and frequency of a photon.
- A. Product
 - B. Sum
 - C. Ratio
 - D. None of these
- Q.150** What is the formula of ammonium cyanate?
- A. $\text{CH}_3\text{CONCH}_3$

- B. NH_2CONH_2
C. NH_4CNO
D. NH_4CHO
- Q.151 Tetraethyl lead added to fuel to _____?**
A. Decrease boiling point
B. Prevent heating
C. Prevent freezing of fuel
D. Prevent knocking
- Q.152 London force of interaction forms crystals**
A. Covalent crystals
B. Ionic crystals
C. Molecular crystals
D. Metallic crystals
- Q.153 In which manner H-Bond is formed in HF molecule ?**
A. Random
B. Zigzag
C. Tetrahedral
D. Linear
- Q.154 Electrolyte can be in**
A. Plasma state
B. Solution or Fused state
C. Solid form
D. Gaseous State
- Q.155 Reaction intermediate**
A. Cannot be separated from reaction mixture
B. Contain normal bonds
C. Can be isolated from reaction mixture
D. Both B and C
- Q.156 Anything under test or observation in laboratory is called**
A. Surrounding
B. System
C. Confined space
D. None of these
- Q.157 At the start of a reaction, Concentration of reactants decreases**
A. Slowly
B. At constant rate
C. Rapidly
D. Exponentially
- Q.158 It is very _ to remove electron from a positively charged ion than a neutral atom due to increase in nuclear charge**
A. Easy
B. Difficult
C. Moderate
D. None of these
- Q.159 When a sufficient amount of energy is provided to a neutral atom, it ionizes to form**
A. Ion
B. Anion
C. Cation
D. Free radical

- Q.160** The positive sign in the rate expression for products depicts
- Decrease in concentration
 - Increase in concentration
 - Increase in yield
 - Decrease in temperature
- Q.161** Which one is the major product when ethene react with Br_2 in H_2O ?
- Dibromoethane
 - Bromoethane
 - Hydroxy Bromoethane
 - Hydroxy Bromoethane
- Q.162** Oxidation Number can be
- Positive
 - Zero
 - Negative
 - All of these
- Q.163** Crystals of $\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O}$ when exposed to air
- Lose water and remain solid
 - Gain water and remain solid
 - Gain water and become liquid
 - Remains unchanged
- Q.164** In a carboxylic acid dimer how many H-bonds are present ?
- Three
 - Two
 - Five
 - One
- Q.165** In the reaction; $\text{Zn} + \text{CuSO}_4 \rightarrow \text{ZnSO}_4 + \text{Cu}$, Which of the following change shoes that redox reaction takes place at once ?
- Blue color appears
 - Blue color disappears
 - Temperature of the surrounding decreases
 - None of these
- Q.166** What is the empirical formula for the following molecular formula C_5H_{12}
- C_5H_{12}
 - C_5H_6
 - CH_2
 - $\text{C}_{2.5}\text{H}_6$
- Q.167** Which of the following undergoes cannizzaro reaction _____?
- Benzaldehyde
 - Acetone
 - Benzophenone
 - Benzyl alcohol
- Q.168** The maximum probability of finding an electron is at distance of
- 0.53mm
 - 0.53nm
 - 0.153nm
 - 1.53mm
- Q.169** If we decrease temperature of a gas 2 times, its volume will
- Increase 4 times
 - Decrease 4 times
 - Decrease 2 times

- D. Increase 2 times
- Q.170 Ammonia may be prepared by heating ammonium chloride with**
- Water
 - NaCl
 - Aqueous sodium hydroxide
 - H₂SO₄
- Q.171 Which color of precipitates are formed when carbonyl compounds react with 1,2-dinitrophenylhydrazine?**
- Yellow or red
 - Orange or blue
 - Green or red
 - Yellow or orange
- Q.172 The four C-H bond of methane are formed by overlap of**
- sp³-s
 - sp²-s²
 - sp³-s²
 - sp³-sp³
- Q.173 The catalyst used for ether formation by dehydration of alcohols**
- Cons HN₃ at 14 C
 - Cons H₂SO₄ at 14 C
 - Hot H₃PO₄ at 18 C
 - ZnCl₂ at 45 C
- Q.174 2 moles of octane (C₈H₁₈) burns with 25 moles of oxygen (O₂) and produced _____ moles of carbon dioxide along with 18 moles of water**
- 14
 - 16
 - 18
 - 2
- Q.175 The central atom along with ligands is called**
- Complex ion
 - Coordination sphere
 - Ligand
 - Complex compound
- Q.176 Who rejected vital force theory**
- Wohler
 - Berzelius
 - Wallis
 - Lyll
- Q.177 The simplest hydrocarbon to have structural isomer is:**
- Butane
 - Butanone
 - Butene
 - Butyne
- Q.178 Optimum pH of salivary amylase is:**
- 7-7.5
 - 6-6.5
 - 6.4-6.9
 - 6.3-6.7
- Q.179 Dalton's law of partial pressure is used to derive the relation between K_c and**
- Temperature

- B. Universal Gas constant
- C. Δn
- D. K_p

Q.180 In Rhombohedral system, all three angles lies between _degree

- A. 9 & 45
- B. 9 & 2
- C. 9 & 12
- D. 12 & 18

ENGLISH

Comprehend key vocabulary

Q.181 Excuse me. Could you _____ me the way to the town hall?

- A. Let
- B. Put
- C. Talk
- D. Tell

Q.182 Choose the correct spelling of the word

- A. Untill
- B. Until
- C. Untel
- D. Antil

Q.183 Choose the correct sentence.

- A. The weather in August is ususally very humid!
- B. The weather in August is ususally very humid.
- C. The weather in august is ususally very humid.
- D. The weather in August is ususally very Humid.

Q.184 It seldom _____ (rain) here in February.

- A. Raining
- B. Rain
- C. Rains
- D. Rained

Q.185 _____ apple a day keeps the doctor away.

- A. A
- B. An
- C. The
- D. No article

Q.186 The thlef has _____ all my belongings.

- A. Robbed
- B. Taken
- C. Stolen
- D. Taken away

Q.187 Choose the correct spelling of the word

- A. Nite
- B. Nigt
- C. Nighte
- D. Night

Q.188 We will arrange a party soon. This sentence shows:

- A. Present
- B. Past
- C. Future

D. None

Q.189 We're leaving, are you ready? - Not _____ . Give me 10 minutes.

- A. For me
- B. Very much
- C. Very many
- D. Yet

Q.190 The rain _____ (continue) into the evening, ruining the picnic plans.

- A. Continues
- B. Will continue
- C. Continued
- D. Contnuing

Q.191 Choose the correct sentence.

- A. Charles Dickens wrote 'A Tale of Two Cities', 'Little Dorrit', 'A Christmas Carol' and 'Bleak House' amongst others.
- B. Charles dickens wrote 'A Tale of Two Cities', 'Little Dorrit', 'A Christmas Carol' and 'Bleak House' amongst others.
- C. Charles Dickens wrote 'A Tale of two cities', 'Little dorrit', 'A Christmas Carol' and 'Bleak House' amongst others.
- D. Charles Dickens wrote 'A Tale of Two Cities', 'Little Dorrit', 'A Christmas Carol' and 'Bleak House' amongst others.

Q.192 The chances of your being promoted _____
excellent.

- A. Is
- B. Are
- C. Was
- D. Be

Q.193 We _____ a week in Italy each year.

- A. Spend
- B. Spending
- C. Spends
- D. Are spending

Q.194 Most people agree that kindergarten contributes _____ the
chlld's mental development.

- A. On
- B. To
- C. Among
- D. Of

Q.195 Please tell us the story of Cinderella.

- A. Declarative
- B. Imperative
- C. Interrogative
- D. Exclamatory

Q.196 affluent

- A. careful
- B. Clever
- C. Wealthy
- D. Educated

Q.197 Both of you _____ the rules.

- A. Knows
- B. Knew

- C. No
- D. New

Q.198 His shabby clothes and unkempt hair gave him a _____ appearance.

- A. Discontented
- B. Disreputable
- C. Disrespectful
- D. Disputatious

Q.199 Choose the correct sentence.

- A. The colors in the curtains are; yellow orange beige and tan.
- B. The colors in the curtains are yellow, orange, beige and tan.
- C. The colors in the Curtains are yellow, orange, beige and tan.
- D. The colors in the curtains are yellow orange beige and tan.

Q.200 What do you usually have for _____ breakfast?

- A. A
- B. An
- C. The
- D. No article

LOGICAL REASONING

Q.201 What should come next to It book

- A. Pages
- B. Learning
- C. Pictures
- D. Eraser

Q.202 Statement As stated in the recent census report the female to male ratio is alarmingly low. I. The government should conduct another census to verify the results. II. The government should immediately issue orders to all the departments to encourage people to improve the ratio.

- A. Both of them follows
- B. None of them follows
- C. Only I follows
- D. Only II follows

Q.203 Fact1: All drink mixes are beverages Fact 2: All beverages are drinkable Fact 3: All beverages are red If the above three statements are facts than which of the following statement will also be a fact I. Some drink mixes are red II. All beverages are drink mixes. III. All red drink mixes are drinkable

- A. I only
- B. II only
- C. III only
- D. None of them is a fact

Q.204 Which letter lies in the middle of word Quality?

- A. L
- B. A
- C. U
- D. Y

Q.205 Statement:

I. The government has decided to make all the information related to primary education available to the general public.

II. In the past, the general public did not have access to all these information related to primary education.

- 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

Q.206 According to Oxfam report, Every Minute, _____ People Die of Hunger In The World?

- A. 10
- B. 11
- C. 15
- D. Both A and B

Q.207 Secondary is to Informal as honest is to

- A. Frank
- B. Sincere
- C. Truth full
- D. Wicked

Q.208 Which of the following is classified as a main rock?

- A. Metamorphic
- B. Sedimentary
- C. Igneous
- D. Both A and B

Q.209 Look at this series: 22, 21, 23, 22, 24, 23, ... What number should come next?

- A. 22
- B. 24
- C. 25
- D. 26

Q.210 Statements The government has decided to roll back the hike in the prices of cooking gas and kerosene. Some ministers had resigned in protest against the hike in prices of cooking gas and other petroleum products.

- A. I is cause and II is effect
- B. II is cause and I is effect
- C. Both are independent causes
- D. Both are effects of independent causes

**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
Join it**