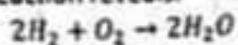
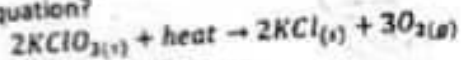


1) Consider the reaction below, if 5 moles each of hydrogen and oxygen are reacted to form water, the reaction reveals:



- A)  $H_2$  is excess reagent
- B)  $O_2$  is limiting reagent
- C)  $H_2$  is limiting reagent
- D) Reaction has no limiting reagent

Oxygen can be prepared by the decomposition of potassium chlorate ( $KClO_3$ ). How many moles of oxygen ( $O_2$ ) can be formed by taking 12 moles of potassium chlorate ( $KClO_3$ ) according to the following equation?



- A) 12 moles of oxygen
  - B) 15 moles of oxygen
  - C) 18 moles of oxygen
  - D) 21 moles of oxygen
- 3) 117.0g of  $NaCl$  have:
- A)  $1.204 \times 10^{24}$  formula units of  $NaCl$
  - B)  $12.04 \times 10^{22}$  formula units of  $NaCl$
  - C)  $1.204 \times 10^{23}$  molecules of  $NaCl$
  - D)  $6.023 \times 10^{23}$  molecules of  $NaCl$
- 4) The number of orientations of a sub-shell for which  $n = 4$  and  $l = 3$  will be:
- A) 5
  - B) 3
  - C) 7
  - D) 1
- 5) Photon of the lowest wavelength is related to:
- A) Balmer series
  - B) Pfund series
  - C) Bracket series
  - D) Paschen series
- 6) The maximum  $e/m$  ratio for positive rays is obtained when the discharge tube contain:
- A) He
  - B)  $N_2$
  - C) Ne
  - D)  $H_2$
- 7) 1 atm of pressure is equal to all of the following except:
- A) 760 cm Hg
  - B) 760 mm Hg
  - C) 760 torr
  - D) 101325 Pa
- 8) The volume of a given mass of an ideal gas at certain pressure is  $x$  at constant temperature. What will be its volume when the pressure is reduced to half:
- A)  $\frac{x}{2}$
  - B)  $2x$
  - C)  $4x$
  - D)  $\frac{x}{4}$

9) The volume occupied by 3.2 g of oxygen gas at S.T.P is:

- A) 1.12  $dm^3$
- B) 2.24  $dm^3$
- C) 22.4  $dm^3$
- D) 24  $dm^3$

10) All of the following crystal systems have  $\alpha = \gamma = 90^\circ$  except:

- A) Cubic
- B) Orthorhombic
- C) Tetragonal
- D) Rhombohedral

11) Compound having lowest boiling point is:

- A) Carbon tetrachloride
- B) Ethyl alcohol
- C) Benzene
- D) Acetic acid

12) Which of the following can form Hydrogen bonding with each other?

- A) Methanal & Ethanal
- B) Propanone & ethyl methyl ketone
- C) 3<sup>o</sup> Amine &  $H_2O$
- D) Acetone & Acetaldehyde

13) Identify the molecular formula of Furan:

- A)  $C_4H_4O$
- B)  $C_5H_8O$
- C)  $C_4H_2O$
- D)  $C_4H_6O$

14) Haber's process is used for the synthesis of ammonia. The optimum temperature for the Haber process is:

- A) 35 - 50°C
- B) 130 - 150°C
- C) 400 - 450°C
- D) 500 - 600°C

15) If ionic product is less than  $K_{sp}$  then:

- A) Solution will be saturated
- B) Precipitation will occur
- C) Solution will be super saturated
- D) No precipitation will occur

16) For  $\Delta n = 0$

- A)  $K_p = K_c$
- B)  $K_p \neq K_c$
- C)  $K_p > K_c$
- D)  $K_p < K_c$

17) Reaction that follows third order kinetics is:

- A) Decomposition of nitrogen dioxide
- B) Decomposition of hydrogen iodide
- C) Gas phase oxidation of nitric oxide
- D) Formation of hydrogen iodide

- 18) As compared to exothermic reaction, formation of activated complex in endothermic reaction requires:
- Greater  $E_a$
  - Smaller  $E_a$
  - Equal  $E_a$
  - No  $E_a$
- 19) SI unit of specific heat capacity is:
- $Jg^{-1}K^{-1}$
  - $JK^{-1}$
  - $JmolK^{-1}$
  - $kJ/mol$
- 20) Processes involving solids and liquids have their:
- $\Delta H = \Delta E + P\Delta V$
  - $\Delta H = P\Delta V$
  - $\Delta H = \Delta E$
  - $\Delta H = 0$
- 21) In redox reaction of  $SO_2$  with  $KMnO_4$  in acidic medium:
- $SO_2$  oxidizes  $KMnO_4$
  - $SO_2$  reduces  $KMnO_4$
  - $KMnO_4$  is inert in acidic medium
  - $SO_2$  can't undergo redox reaction
- 22) Zinc displaces copper from its solution because:
- Atomic no. of zinc is higher than that of copper
  - Zinc has higher reduction potential than copper
  - Zinc is more soluble
  - Zinc has smaller reduction potential than copper
- 23) The molecular shape of a molecule with three bonded atoms and one lone pair electron on the central atom will be:
- Trigonal planar
  - Tetrahedral
  - Trigonal pyramidal
  - Linear
- 24) Molecule having the highest bond energy (Experimentally) is:
- $HCl$
  - $HF$
  - $HBr$
  - $HI$
- 25) The bond length between double bonded carbon atoms is:
- $1.34\text{\AA}$
  - $1.10\text{\AA}$
  - $1.54\text{\AA}$
  - $1.82\text{\AA}$
- 26) Choose the element that forms normal oxide only:
- Li
  - Na
  - K
  - Rb
- 27) Element whose salts do not impart color to flame test is:
- Be
  - Cs
  - Ca
  - K
- 28) Indicate superoxide in the following:
- CaO
  - $BaO_2$
  - $Na_2O_2$
  - $RbO_2$
- 29) Which one of the following is covalent in nature?
- $Mg_3N_2$
  - $Be_3N_2$
  - $Ca_3N_2$
  - $Ba_3N_2$
- 30) Which one has one unpaired electron in the valence shell?
- $Zn^{2+}$
  - $Cu^+$
  - $Ti^{3+}$
  - $Fe^{3+}$
- 31) The oxidation number of Cobalt in the given coordination complex is:  
 $[Co(H_2NCH_2CH_2NH_2)_3]_2(SO_4)_3$
- III
  - II
  - IV
  - VI
- 32) Pyrole belongs to which class of compounds:
- Hydrocarbons
  - Homocyclic
  - Alicyclic
  - Heterocyclic
- 33) Ethyl alcohol in the presence of  $H_2SO_4$  at  $170^\circ C$  produces:
- Ether
  - Ethene
  - Ester
  - Ethane
- 34) Lindlar's catalyst is used in hydrogenation of alkyne:
- To increase activation energy
  - To enhance hydrogenation of alkene
  - To prevent hydrogenation of alkene
  - To start polymerization reaction



- 36) Which one of the following is not Meta directing group?  
 A)  $-COR$   
 B)  $-NO_2$   
 C)  $-CHO$   
 D)  $-NR_2$
- 37) Benzene-1,3-diol is also known as:  
 A) Catechol  
 B) Resorcinol  
 C) Hydroquinone  
 D) O-cresol
- 38) Identify the electrophile called as acylium ion:  
 A)  $R_3N^+$   
 B)  $RCO^+$   
 C)  $RCOO^+$   
 D)  $RNO^+$
- 39) Among the following hydrocarbons which one has acidic hydrogen?  
 A)  $C_2H_6$   
 B)  $C_2H_4$   
 C)  $C_2H_2$   
 D)  $C_6H_6$
- 40) Greater number of alkyl groups on substrate favours:  
 A) Substitution reaction  
 B) Elimination reaction  
 C) Oxidation reaction  
 D) Free radical reaction
- 41)  $S_N1$  reactions mostly result in partial racemization. In partial racemization there is:  
 A) Inversion only  
 B) Retention only  
 C) Equal inversion and retention  
 D) More inversion than retention
- 42) Which of the following involve the same steps?  
 A)  $E1$  and  $E2$   
 B)  $E1$  and  $S_N1$   
 C)  $S_N1$  and  $S_N2$   
 D)  $E2$  and  $S_N1$
- 43) The correct sequence of electronic configuration is:  
 A)  $4p\ 5s\ 4d\ 5p\ 6s\ 4f\ 5d$   
 B)  $4p\ 4s\ 4d\ 5p\ 5s\ 5f\ 6d$   
 C)  $4p\ 4s\ 4d\ 5p\ 5s\ 4f\ 5d$   
 D)  $4p\ 3s\ 4d\ 5p\ 6s\ 4f\ 5d$
- 44) When phenol reacts with excess of bromine in aqueous solution it results in the formation of:  
 A) Ortho/para bromophenol  
 B) Meta-bromophenol  
 C) 2,4,6-Tribromophenol  
 D) 3,5-Dibromophenol
- 45) Propylene glycol and trimethylene glycol are:  
 A) Functional group isomers  
 B) Metamers  
 C) Position isomers  
 D) Tautomers
- 46) The reduction of Aldehydes and Ketones to alkanes in the presence of Zinc amalgam and  $HCl$  is called:  
 A) Clemmenson reduction  
 B) Williamson's synthesis  
 C) Wolf-Kishner reduction  
 D) Dow process
- 47) Aldehyde and Ketone on reaction with hydroxylamine form:  
 A) Hydrazine  
 B) Hydrazone  
 C) Oxime  
 D) Imine
- 48) Fehling's solution works on the principle of redox reaction which results in:  
 A) Reduction of Aldehydes  
 B) Oxidation of Copper (II)  
 C) Oxidation of Aldehyde  
 D) Oxidation of Ketone
- 49) In conversion of acid halides to ester, pyridine is used to:  
 A) Stabilize acid halides  
 B) Consume  $HCl$  formed in the reaction  
 C) Dehydrate alcohol  
 D) Dehydrogenate acid halides
- 50) Number of carbon atoms in valeric acid is:  
 A) 4  
 B) 5  
 C) 6  
 D) 7
- 51) The IUPAC name of formyl chloride is:  
 A) Chloro methanoic acid  
 B) Chloro methane  
 C) Methanoyl chloride  
 D) Chloro methanoate
- 52) The inhibition, in which the inhibitor does not combine directly with the enzyme but binds to the enzyme substrate complex is called:  
 A) Reversible inhibition  
 B) Competitive inhibition  
 C) Non-competitive inhibition  
 D) Uncompetitive inhibition
- 53) Trypsinogen can be activated by the action of:  
 A) Amylase  
 B)  $HCl$   
 C) Glucokinase  
 D) Enterokinase
- 54) Crystal having orthorhombic crystal system is:  
 A)  $PbCrO_4$   
 B)  $BaSO_4$   
 C)  $ZnO$   
 D)  $K_2Cr_2O_7$

- 54) Alkoxy carbonyl functional group is present in:
- Ether
  - Aldehyde
  - Carboxylic acid
  - Ester
- 55) Statements:  
Some teachers are students. All students are girls. No student is a boy.  
Conclusions:  
I. Some teachers are boys.  
II. Some girls are teachers.  
III. Some girls are students.
- Only I follows
  - Only I, II and III follow
  - Only II follows
  - Only II and III follow
- 56) Complete the following series:  
KCD, LEF, MGH, \_\_\_\_\_, OKL.
- NQM
  - PJI
  - NIJ
  - NJI
- 57) Read the following statements and decide about the arguments.  
Statement: Does Pakistan need so many plans for development?  
Arguments:  
I. Yes. Nothing can be achieved without proper planning.  
II. No. Too much time, money and energy is wasted on planning.
- Only I is True.
  - Only II is True.
  - Either I or II is True.
  - Neither I nor II is True.
- 58) Methyl tetrachloride (MTC) is a chemical found in some pesticides, glues, and sealants. Exposure to MTC can cause people to develop asthma. In order to halve the nation's asthma rate, the government plans to ban all products containing MTC. The government's plan to halve the nation's asthma rate relies on which of the following assumptions?
- Exposure to MTC is responsible for no less than half of the nation's asthma cases.
  - Products containing MTC are not necessary to the prosperity of the country's economy.
  - Asthma has reached epidemic proportions.
  - MTC products are helpful for asthma.

- 59) Statements:  
I. Importance of yoga and exercise is being realized by all sections of the society.  
II. There is an increasing awareness about health in the society particularly among middle ages group of people.
- Statement I is the cause and statement II is its effect.
  - Statement II is the cause and statement I is its effect.
  - Both the statements I and II are independent causes.
  - Both the statements I and II are effects of independent causes.
- 60) Statement: The rates of interest on Post Office recurring deposit accounts have been increased with effect from 1<sup>st</sup> March. This has been done to attract more deposits.  
Course of Action  
I. Efforts should also be made to make the public aware about this increase in the rate of interest.  
II. If the deposits don't increase in next six months, the rate of interest should be further increased.
- Only conclusion I follows
  - Only conclusion II follows
  - Neither I nor II follows
  - Both conclusions I and II follows
- 61) Equal forces  $F$  act on isolated bodies A and B. The mass of B is  $1/5$  times that of A. The magnitude of the acceleration of A is:
- $1/5$  times that of B
  - $1/3$  times that of B
  - the same as B
  - nine times that of B
- 62) A body is moved through a displacement of 15m towards North, the total displacement will be zero when body covered the same displacement towards:
- North
  - South
  - West
  - East
- 63) When the range of a projectile is equal to one fourth of the height then which one is true:
- $\tan\theta = 10$
  - $\tan\theta = 12$
  - $\tan\theta = 16$
  - $\tan\theta = 1$



- 64) A body is moving with momentum of  $100 \text{ kg m/s}$ . What is the magnitude of force required to stop this body in  $25 \text{ sec}$ ?
- A)  $4 \text{ N}$   
 B)  $25 \text{ N}$   
 C)  $100 \text{ N}$   
 D)  $2500 \text{ N}$
- 65) Doubling the initial velocity of a projectile while keeping all other parameters the same, the height reached by the projectile increases by:
- A) two times  
 B) three times  
 C) four times  
 D) remains the same
- 66) Neglecting the effect of air resistance how long a stone takes to dropped off a  $125 \text{ m}$  high building lands on the ground, take  $g = 10 \text{ m/s}^2$ :
- A)  $3 \text{ sec}$   
 B)  $4 \text{ sec}$   
 C)  $18 \text{ sec}$   
 D)  $5 \text{ sec}$
- 67) The weight of a body is  $120 \text{ N}$  and it is lifted to height  $10 \text{ m}$ , work done on the body is:
- A)  $120 \text{ J}$   
 B)  $100 \text{ J}$   
 C)  $1000 \text{ J}$   
 D)  $1200 \text{ J}$
- 68) A  $200 \text{ N}$  force acts on  $8 \text{ kg}$  crate that starts from rest. At the instant the object has gone  $2 \text{ m}$ , the rate at which the force is doing work is:
- A)  $2.5 \text{ W}$   
 B)  $25 \text{ W}$   
 C)  $75 \text{ W}$   
 D)  $2000 \text{ W}$
- 69) Which of the following bodies has the largest kinetic energy?
- A) Mass  $3 \text{ M}$  and speed  $V$   
 B) Mass  $3 \text{ M}$  and speed  $2V$   
 C) Mass  $3 \text{ M}$  and speed  $3V$   
 D) Mass  $M$  and speed  $4V$
- 70) A  $2 \text{ kg}$  object is released from rest  $8 \text{ m}$  above the surface of Earth. During the fall work done against air resistance is  $60 \text{ J}$ . Just before it hits the surface its speed is: (Hint: take  $g = 10 \text{ m/sec}^2$ )
- A)  $10 \text{ m/sec}$   
 B)  $36 \text{ m/sec}$   
 C)  $40 \text{ m/sec}$   
 D)  $45 \text{ m/sec}$
- 71) The speedometer of a car shows  $36 \text{ km/hr}$ . The angular speed of the wheels having  $0.5 \text{ m}$  radius is:
- A)  $5 \text{ rad/sec}$   
 B)  $10 \text{ rad/sec}$   
 C)  $15 \text{ rad/sec}$   
 D)  $20 \text{ rad/sec}$
- 72) The angular speed in radian/hour for daily rotation of our earth is?
- A)  $\pi/12$   
 B)  $12\pi$   
 C)  $24\pi$   
 D)  $\pi/24$
- 73) A fly wheel rotates at constant speed of  $600 \text{ rpm}$ . The angle described by the shaft in radian in one second is:
- A)  $100\pi$   
 B)  $20\pi$   
 C)  $0$   
 D)  $20$
- 74) The angular speed of the second hand of a watch is:
- A)  $(\pi/1800) \text{ rad/sec}$   
 B)  $(\pi/60) \text{ rad/sec}$   
 C)  $(\pi/30) \text{ rad/sec}$   
 D)  $(2\pi) \text{ rad/sec}$
- 75) A stretched string vibrates with frequency  $f$ , when tension in the string is  $T$ , for what value of tension, the frequency of the same string is doubled?
- A)  $2T$   
 B)  $4T$   
 C)  $8T$   
 D)  $16T$
- 76) The longitudinal waves travel more slowly in \_\_\_\_\_ than in \_\_\_\_\_
- A) Solids, gases  
 B) Solids, liquid  
 C) Gases, solids  
 D) Liquid, gases
- 77) Sinusoidal water waves are generated in a large ripple tank. The waves travel at  $25 \text{ cm/s}$  and their adjacent crests are  $5.0 \text{ cm}$  apart. The time required for each new whole cycle to be generated is:
- A)  $100 \text{ sec}$   
 B)  $4.0 \text{ sec}$   
 C)  $2.0 \text{ sec}$   
 D)  $0.2 \text{ sec}$
- 78) The distance between adjacent node and anti-node is equal to:
- A)  $\lambda$   
 B)  $\frac{\lambda}{2}$   
 C)  $2\lambda$   
 D)  $\frac{\lambda}{4}$
- 79) A string clamped at its both ends, vibrates in four segments (loops). The length of string is  $150 \text{ cm}$ . The wavelength of the wave is:
- A)  $33.3 \text{ cm}$   
 B)  $66.7 \text{ cm}$   
 C)  $150 \text{ cm}$   
 D)  $75 \text{ cm}$

- 80) The square root of the ratio of elasticity to mass density is equal to:  
 A) Force  
 B) Product of frequency and wavelength  
 C) Co-efficient of Viscosity  
 D) Refractive index
- 81) If the pressure of air enclosed in a long tube is increased 10 times, then speed of sound will:  
 A) Increase  
 B) Decrease  
 C) Remain constant  
 D) Become zero
- 82) The expression,  $C_p - R$  is equal to:  
 A)  $C_v$   
 B)  $R$   
 C)  $C_p - C_v$   
 D)  $R + C_v$
- 83) In a certain process, 200J of heat energy is supplied to a system and at the same time 50J of work is done by the system. The increase in the internal energy of the system is:  
 A) 25J  
 B) 100J  
 C) 150J  
 D) 250J
- 84) Work done during isochoric process is:  
 A) Negative  
 B) Maximum Negative  
 C) Maximum Positive  
 D) Zero
- 85) Two charges of magnitude  $q_1 = 1\mu\text{C}$  and  $q_2 = 5\mu\text{C}$ , are separated at a distance  $r = 1 \times 10^{-2}\text{m}$  apart, the ratio of the magnitude of the forces acting on them will be:  
 A) 1:5  
 B) 1:25  
 C) 1:3  
 D) 1:1
- 86) For 0.5 Siemens of conductance, resistance will be:  
 A) 10  
 B) 20  
 C) 200  
 D) 100
- 87) 1 volt x 1 ampere is equal to:  
 A) 1 coulomb  
 B) 1 newton  
 C) 1 watt  
 D) 1 hp
- 88) A wire of length  $L$  has resistivity  $\rho$ . If the wire is divided in two halves, then resistivity of each half is:  
 A)  $\rho/2$   
 B)  $\rho$   
 C)  $2\rho$   
 D)  $\rho/3$
- 89) In how many hours a 1000-watt AC will consume one unit of electricity?  
 A) 0.5 hr  
 B) 1 hr  
 C) 1.5 hr  
 D) 2 hr
- 90) Of the following, the copper conductor that has the least resistance must be:  
 A) thick, short and cool  
 B) thin, long and hot  
 C) thick, long and hot  
 D) thin, short and cool
- 91) A certain x-ray tube requires a current of 5 mA at a voltage of 60 kV. The rate of energy dissipation (in watts) is:  
 A) 360  
 B) 300  
 C) 200  
 D) 800
- 92) Ampere-Second is the unit of:  
 A) Power  
 B) Charge  
 C) Potential difference  
 D) Current
- 93) The magnitude of the magnetic flux through area  $A$  has exactly the same value at angles:  
 A)  $0^\circ$  and  $180^\circ$   
 B)  $90^\circ$  and  $180^\circ$   
 C)  $180^\circ$  and  $270^\circ$   
 D)  $270^\circ$  and  $360^\circ$
- 94) A hydrogen atom that has lost its electron is moving east in a region where the magnetic field is directed from south to north. It will be deflected:  
 A) Up  
 B) Down  
 C) North  
 D) South
- 95) When the magnetic force acts on a charge particle, change occurs in:  
 A) Magnitude of velocity only  
 B) Magnitude and direction of velocity  
 C) Only the direction of velocity  
 D) Neither direction nor magnitude of velocity
- 96) A constant magnetic field of 5T is passing through a static conducting loop of area  $0.8\text{m}^2$ , the induced emf is:  
 A) 4V  
 B) 10V  
 C) Zero  
 D) 32V



- 97) Magnetic flux linked with a conducting loop "A" is increased at the rate of 15 weber/second and in another conducting loop "B" is decreased at the rate of 15 weber/second, the magnitude of induced emf of:
- Loop A will be equal to loop B
  - Loop A is smaller than loop B
  - Loop B is smaller than loop A
  - Both will be zero
- 98) For induced emf to be produced in a coil, the magnetic flux linked with a coil must:
- only decrease
  - only increase
  - be constant
  - be changed
- 99) For half wave rectification, the number of diode needed in a circuit is:
- 1
  - 2
  - 3
  - 4
- 100) The frequency of a light beam "A" is half of that of light beam "B". The ratio  $E_A/E_B$  of photons energies is:  
(Hint: where  $E_A$  &  $E_B$  are the respective energies of light Beam "A" & "B")
- 1/2
  - 1/4
  - 1
  - 2
- 101) The wavelength of photon "A" is half the wavelength of photon "B". The energy of a photon "A" is:
- half the energy of a photon B
  - one-fourth the energy of a photon B
  - equal to the energy of photon B
  - twice the energy of photon B
- 102) if frequency of light is greater than threshold frequency then in photoelectric effect the number of electrons increases with increase in \_\_\_\_\_ of light.
- frequency
  - kinetic energy
  - intensity
  - momentum
- 103) The shortest wavelength associated to Paschen series is:
- $\lambda = \frac{9}{R_H}$
  - $\lambda = \frac{7}{R_H}$
  - $\lambda = \frac{19}{R_H}$
  - $\lambda = \frac{4}{R_H}$
- 104) The ratio of shortest wavelength to longest of Lyman series is:
- 9/4
  - 4/3
  - 3/4
  - 4
- 105) Half-life of a radioactive element is 100 days. How much quantity of the 88 g of such element will remain after three half-lives?
- 8 g
  - 10 g
  - 11 g
  - 44 g
- 106) Radioactive  $^{90}\text{Sr}$  has a half-life of 30 years. What percent of a sample of  $^{90}\text{Sr}$  will remain after 90 years?
- 0%
  - 12.5%
  - 50%
  - 75%
- 107) At the end of 15min,  $1/32$  of a sample of radioactive polonium remains. The corresponding half-life is:
- 0.469min
  - 32min
  - 15min
  - 3min
- 108) Two equal and opposite charges of 10 C are separated at a distance of 10 cm, the electric potential at mid-point between the charges is:
- 20 V
  - 10 V
  - 5 V
  - 0 V
- 109) The force of repulsion between two alike charges is 10N in vacuum. When a material of  $\epsilon_r = 2$  is placed between them, new force will be:
- 20 N
  - 15 N
  - 10 N
  - 5 N
- 110) The slope of the charge-time graph for a charging capacitor gives:
- Current
  - Voltage
  - Force
  - Energy
- 111) Two small charged objects attract each other with a force  $F$  when separated by a distance  $d$ . If the charge on each object is reduced to one-fourth of its original value and the distance between them is reduced to  $d/2$  the force becomes:
- $F/16$
  - $F/8$
  - $F/4$
  - $F/2$

- 112) If both the plate area and the plate separation of a parallel-plate capacitor are doubled, the capacitance is:  
 A) doubled  
 B) halved  
 C) unchanged  
 D) tripled
- 113) A  $20\mu\text{F}$  capacitor is charged to  $200\text{ V}$ . Its stored energy is:  
 A)  $4000\text{ J}$   
 B)  $4\text{ J}$   
 C)  $0.4\text{ J}$   
 D)  $2000\text{ J}$
- 114) The primary winding of a transformer has a  $120\text{ V AC}$  supply. What is the value of secondary voltage if the turn ratio is 20. (Hints: turn ratio  $=N_2/N_1$ )  
 A)  $2400\text{ V}$   
 B)  $1200\text{ V}$   
 C)  $24000\text{ V}$   
 D)  $200\text{ V}$
- 115) I like \_\_\_ blue T-shirt over there better than \_\_\_ red one.  
 [Choose the correct articles]  
 A) no article, the  
 B) the, the  
 C) the, a  
 D) a, the
- 116) All you think and hanker \_\_\_ is government service.  
 [Choose the correct preposition]  
 A) on  
 B) for  
 C) at  
 D) upon
- 117) Choose the correct sentence.  
 A) I have always and I am always your friend.  
 B) I have always and am still your friend.  
 C) I have always been and I have still your friend.  
 D) I have always been and still am your friend.
- 118) The director as well as the manager of the hotel \_\_\_ attending the meeting.  
 A) is  
 B) are  
 C) were  
 D) has

Read the passage and answer the question

Given at the end  
 For my 25<sup>th</sup> birthday, my uncle gave me a gift card to go skydiving at a special place near Miami. I was happy because I wanted to do something wild. On the day of my jump, I could not take breakfast because of the nerves. Before I knew the danger involved in it, I was on the plane with a parachute on my back. After the fall, I could feel adrenaline running through me. Then the parachute opened, and I was floating freely, like a bird. Those wonderful moments helped me to realize that I am the kind of person who can take risks in life.

- 119) The author learns from the experience of skydiving that:  
 A) Skydiving is dangerous.  
 B) Miami is a good place for skydiving.  
 C) He is capable of doing risky things in life.  
 D) Skydiving made him so nervous that he could not take breakfast in the morning.
- 120) The novice teacher was excited about her first teaching job.  
 [The word closest in meaning to the underlined word is]  
 A) Experienced  
 B) Beginner  
 C) Erudite  
 D) Stern
- 121) Choose the correct spelling:  
 A) Loquacious  
 B) Loquetious  
 C) Loquicious  
 D) Loquacious
- 122) If I were younger, I \_\_\_ around the world.  
 A) will travel  
 B) would have travelled  
 C) would travel  
 D) travel
- 123) The flower girl sold him flowers.  
 [The underlined word is]  
 A) Direct object  
 B) Indirect object  
 C) Complement  
 D) Predicate
- 124) Identify the past simple tense in the following.  
 A) We have been reading in the classroom since morning.  
 B) He had broken this window.  
 C) They spoke in Urdu to the waitress.  
 D) She is enjoying the weather on the roof.



- 125) Something odd was happening all around the world.  
 [Identify the underlined clause]  
 A) Subordinate clause  
 B) Independent clause  
 C) Dependent clause  
 D) Relative clause
- 126) We met rather few people who spoke English.  
 [The sentence is]  
 A) Complex  
 B) Simple  
 C) Compound  
 D) Compound complex
- 127) Identify the sentence with correct punctuation and capitalization.  
 A) The automobile dealer handled three makes of cars: Toyota, Suzuki, and Honda.  
 B) The automobile dealer handled three makes of cars; Toyota, Suzuki, and Honda.  
 C) The automobile dealer handled three makes of cars: toyota, suzuki, and honda.  
 D) The automobile dealer handled three makes of cars, Toyota, Suzuki, and Honda.
- 128) Which of the following sentences is in correct order?  
 A) We up right drove to Karachi in two days.  
 B) We to Karachi drove in two days right up.  
 C) We right drove to Karachi up in two days.  
 D) We drove right up to Karachi in two days.
- 129) You can either come with me now nor walk home later.  
 [The word which does not fit in the sentence is]  
 A) Can  
 B) Either come  
 C) Now  
 D) Nor
- 130) I just don't want to get out off bed today.  
 [Find an error in the sentence if any]  
 A) Get out  
 B) Just  
 C) Off  
 D) No error.

- Read the passage and answer the questions given at the end (Q131-132)  
 Efforts should be made to control the use of tobacco in the campuses of educational institutions because it is gateway to drug abuse. Most of the youths usually start with soft drugs like cigarettes, *chhaliya*, *gutka*, *naswar* and *pan*, and then move to hard drugs like heroin, opium, cocaine, ice and sheesha, etc. People who start smoking cigarettes or drink alcohol at a young age are much more likely to experiment with illegal drugs than people who do not smoke or drink.
- 131) According to the paragraph:  
 A) Educational institutions are gateways to the control of tobacco  
 B) Youths who start with soft drugs are likely to experiment with illegal drugs  
 C) People who do not smoke or drink are less likely to experiment with illegal drugs  
 D) People who start smoking at a young age are less likely to experiment with illegal drugs
- 132) Smoking cigarettes or drinking alcohol leads to:  
 A) Legal drugs  
 B) Illegal drugs  
 C) Soft drugs  
 D) The use of tobacco in educational institutions
- 133) Which of the following statements is not correct about alveoli:  
 A) Alveoli form the gas exchange surface  
 B) The wall of each alveolus is 0.1 cm thick  
 C) Alveoli has a dense network of capillaries  
 D) Collagen and elastin present in alveoli allow it to expand and recoil easily during breathing
- 134) Which of the following connective tissues consist of cells known as chondrocytes:  
 A) Myocardium  
 B) Cartilage  
 C) Bone  
 D) Periosteum
- 135) The joint present between wrist bones is:  
 A) Fibrous joint  
 B) Cartilaginous joint  
 C) Hinge joint  
 D) Ball and socket joint
- 136) A sarcomere is the region of a myofibril between two successive:  
 A) I-line  
 B) A-Line  
 C) Z-line  
 D) M-line

- 137) The size of synaptic cleft (the gap separating nerve cells) in electrical synapse is:  
 A) 0.2 nm  
 B) 2 nm  
 C) 20 nm  
 D) 200 nm
- 138) The activities like sleeping, walking and dreaming are controlled by which part of brain:  
 A) Pons  
 B) Cerebellum  
 C) Olfactory bulb  
 D) Hippocampus
- 139) The hormone "calcitonin" is secreted by:  
 A) Thyroid gland  
 B) Parathyroid gland  
 C) Pancreas  
 D) Adrenal gland
- 140) Fallopian tube is also known as:  
 A) Oviduct  
 B) Ovaries  
 C) Uterus  
 D) Cervix
- 141) The syphilis is a \_\_\_\_\_ disease:  
 A) Bacterial  
 B) Fungal  
 C) Protozoic  
 D) Viral
- 142) The most common symptom of gonorrhoea in males is:  
 A) Skin rash on neck  
 B) Joint pain  
 C) Painful urination  
 D) Chancre
- 143) G. J. Mendel chose \_\_\_\_\_ as an experimental plant for his study.  
 A) *Medicago sativa*  
 B) *Pisum sativum*  
 C) *Delonix regia*  
 D) *Lens culinaris*
- 144) When round and yellow color seeded plant (RrYy) is self-crossed the number of plants with round and yellow color seeds obtained is \_\_\_\_\_ in 32 plants:  
 A) 18  
 B) 9  
 C) 3  
 D) 1
- 145) In crossing over, exchange of maternal and paternal chromatid parts occurs while homologous chromosomes are paired during:  
 A) Prophase of meiosis I  
 B) Prophase of meiosis II  
 C) Metaphase of meiosis I  
 D) Metaphase of meiosis II
- 146) *Drosophila melanogaster* is the scientific name of:  
 A) House fly  
 B) Fruit fly  
 C) Flash fly  
 D) Sand fly
- 147) A condition that renders the individual less able to form blood clot is:  
 A) Alport's syndrome  
 B) Coffin-Lowry syndrome  
 C) Hemophilia  
 D) Thalassemia
- 148) Intra-specific struggle refers to:  
 A) Competition between members of the same species  
 B) Competition between members of different species  
 C) Environmental struggle  
 D) Prey or predation
- 149) Identify fossil bird among the following:  
 A) Equus  
 B) Python  
 C) Archaeopteryx  
 D) Dawn horse
- 150) Which of the following organelle is regarded as self-replicating organelle:  
 A) Endoplasmic reticulum  
 B) Golgi bodies  
 C) Mitochondria  
 D) Vacuole
- 151) The prokaryotic cell wall composed of:  
 A) Cellulose  
 B) Chitin  
 C) Murein  
 D) Pectin
- 152) \_\_\_\_\_ is found in the exoskeleton of crabs.  
 A) Cellulose  
 B) Chitin  
 C) Murein  
 D) Hemi-cellulose
- 153) Choose the unsaturated fatty acid among the following:  
 A) Palmitic acid  
 B) Arachidic acid  
 C) Stearic acid  
 D) Oleic acid
- 154) The conjugated molecule that is primarily present in egg albumin is:  
 A) Lipoprotein  
 B) Nucleoprotein  
 C) Glycolipid  
 D) Glycoprotein



- 155) FSH (Follicle Stimulating Hormone) stimulates spermatogenesis by stimulating \_\_\_\_\_ cells to complete the development of sperms.
- Leydig
  - Inhibin
  - Sertoli
  - TSH
- 156) The process of photophosphorylation takes place in:
- Nucleolus
  - Chloroplast
  - Nucleus
  - Golgi bodies
- 157) Which of the following hormones is released by the posterior lobe of pituitary gland?
- Antidiuretic hormone
  - Growth hormone
  - Estrogen
  - Prolactin
- 158) Which of the following agents can easily pass through filter paper?
- Bacteria
  - Fungi
  - Yeast
  - Virus
- 159) HIV belongs to a special class of virus known as:
- Retrovirus
  - Flavivirus
  - Novavirus
  - Tetarvirus
- 160) The capsule of a bacterial cell is a sticky gelatinous structure made up of protein and:
- Lipid
  - Carbohydrate
  - Nucleotide
  - Alcohol
- 161) The transgenic plants, such as golden rice are produced primarily with the help of:
- Escherichia coli*
  - Proteus mirabilis*
  - Agrobacterium tumefaciens*
  - Ralstonia solanacearum*
- 162) Which of the following chemicals is used to preserve biological specimens:
- Formalin
  - Glutaraldehyde
  - Ethylene Oxide
  - Iodine
- 163) Coral reefs are the characteristic feature of phylum:
- Porifera
  - Coelenterata
  - Arthropoda
  - Platyhelminthes
- 164) According to sliding filament hypothesis, the release of \_\_\_\_\_ ions from the sarcoplasmic reticulum causes the reorientation of certain components in thin filament, permitting them to bind with extension from the thick myosin filaments:
- Sodium
  - Calcium
  - Magnesium
  - Potassium
- 165) The green glands found in arthropods are concerned with:
- Excretion
  - Respiration
  - Digestion
  - Circulation
- 166) The Purkinji fibers are the specialized fibers found in:
- Human heart
  - Human lungs
  - Human stomach
  - Human brain
- 167) The largest body of lymphoid tissue in the human body is:
- Tonsils
  - Pancreas
  - Spleen
  - Thymus
- 168) The immune cells that clean up pus as a part of the healing process is:
- Natural killer cell
  - Macrophages
  - Antibodies
  - Neutrophils
- 169) Lipid synthesis occurs in which one of the following organelle of the cell?
- Ribosome
  - Golgi bodies
  - Mitochondria
  - Endoplasmic reticulum
- 170) The testes are male gonads which are situated outside the abdomen within a skin pouch called:
- Vas deferens
  - Epididymis
  - Scrotum
  - Vasa efferentia
- 171) The term polydipsia refers to:
- A condition in which abnormally large volume of urine is produced
  - A condition of excessive thirst
  - A condition of excessive hunger
  - A condition in which the concentration of blood decreases in the body





- 189) Which type of nerve impulse occurs in non-myelinated neuron fibers?  
 A) Saltatory impulse  
 B) Continuous impulse  
 C) Rapid impulse  
 D) Jumping impulse
- 190) In alcoholic fermentation \_\_\_\_\_ ATP molecules are produced from 1 glucose molecule:  
 A) 2  
 B) 18  
 C) 32  
 D) 36
- 191) Amino acids mainly differ from each other by the difference in their:  
 A) R-group  
 B) Amino group  
 C) Carboxyl group  
 D) Hydrogen of alpha carbon
- 192) All of the following are related to enzymes except:  
 A) Speed up reaction  
 B) Remain unchanged after reaction  
 C) Increase the activation energy  
 D) Possess the active site
- 193) The cytoplasm contain(s):  
 A) Cell organelle only  
 B) Insoluble waste only  
 C) Storage products only  
 D) Cell organelle, insoluble waste & storage products
- 194) Tay-sach's disease particularly results from the malfunctioning of:  
 A) Cell membrane  
 B) Nucleus  
 C) Lysosomes  
 D) Vacuole
- 195) Enzymes present in mammals work best at about:  
 A) 20 °C  
 B) 30 °C  
 C) 40 °C  
 D) 50 °C
- 196) An example of competitive inhibitor molecule is:  
 A) Insecticides  
 B) Sulphonamide  
 C) Cyanide  
 D) Metal ions
- 197) The ATP formed in the preparatory phase of glycolysis is (are):  
 A) 1  
 B) 2  
 C) 4  
 D) 0

- 198) Mitochondria is usually absent in:  
 A) Muscle cells  
 B) Cardiac cells  
 C) Mature RBC's  
 D) WBC's
- 199) \_\_\_\_\_ consists of units called dictyosomes.  
 A) Ribosomes  
 B) Lysosomes  
 C) Glyoxisomes  
 D) Golgi complex
- 200) The optimal pH of lipase (pancreas) is:  
 A) 4.0 - 5.0  
 B) 1.5 - 1.6  
 C) 8.0  
 D) 6.1 - 6.8

**THE END**



# EDUCATIONAL TESTING & EVALUATION AGENCY (ETEA) - GOVERNMENT OF KHYBER PAKHTUNKHWA

**Roll Number**

①	①	①	①	①	①
②	②	②	②	②	②
③	③	③	③	③	③
④	④	④	④	④	④
⑤	⑤	⑤	⑤	⑤	⑤
⑥	⑥	⑥	⑥	⑥	⑥
⑦	⑦	⑦	⑦	⑦	⑦
⑧	⑧	⑧	⑧	⑧	⑧
⑨	⑨	⑨	⑨	⑨	⑨

**Paper Version**

A

B

C

D

Roll Number: \_\_\_\_\_

Name: \_\_\_\_\_

Father Name: \_\_\_\_\_

Test For: MDCAT- 2023

Test Center: \_\_\_\_\_

Test Date: \_\_\_\_\_

CNIC Form B No: 

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### Instructions

- Answer must be filled with a blue or black pen, as per example given below.
- Any attempt to tamper with the response or provide multiple responses to any question will be treated as an incorrect answer.
- Use of any kind of unfair means, mobile phones or electronic devices or doing impersonation will lead to cancellation of the paper. The defaulter will be blacklisted from appearing in any test conducted by ETEA for two years. FIRs will also be registered against such persons under the relevant provision of law. The device/mobile phone recovered during the test will be confiscated in favor of the Government.
- No extra time will be given. The paper must be handed over to the ETEA staff as soon as given time ends.
- It must be ensured that the version of the question paper is the same as the version of the answer sheet. Otherwise, the system will generate distorted result.
- Rough work can be done anywhere on the question paper only.

Correct way of filling



Incorrect way of filling



Serial No: \_\_\_\_\_

### Certification Statement

I have read all the instructions carefully. I also declare that all the particulars stated by me on this Answer Sheet are correct to the best of my knowledge.

Signature \_\_\_\_\_

1	A	<input checked="" type="radio"/>	C	D	26	A	B	C	<input checked="" type="radio"/>	51	A	<input checked="" type="radio"/>	C	D	76	A	B	<input checked="" type="radio"/>	D	101	A	<input checked="" type="radio"/>	C	D	126	<input checked="" type="radio"/>	B	C	D	151	<input checked="" type="radio"/>	B	C	D	176	A	B	<input checked="" type="radio"/>	D				
2	A	<input checked="" type="radio"/>	C	D	27	<input checked="" type="radio"/>	B	C	D	52	<input checked="" type="radio"/>	B	C	D	77	A	<input checked="" type="radio"/>	C	D	102	A	B	<input checked="" type="radio"/>	D	127	A	B	C	<input checked="" type="radio"/>	D	152	A	B	C	<input checked="" type="radio"/>	D	177	<input checked="" type="radio"/>	B	C	D		
3	A	<input checked="" type="radio"/>	C	D	28	A	<input checked="" type="radio"/>	C	D	53	A	<input checked="" type="radio"/>	C	D	78	A	B	<input checked="" type="radio"/>	D	103	A	B	C	<input checked="" type="radio"/>	D	128	A	B	<input checked="" type="radio"/>	D	153	<input checked="" type="radio"/>	B	C	D	178	A	B	C	<input checked="" type="radio"/>	D		
4	A	B	<input checked="" type="radio"/>	D	29	A	B	<input checked="" type="radio"/>	D	54	A	B	C	<input checked="" type="radio"/>	D	79	A	<input checked="" type="radio"/>	C	D	104	A	B	C	<input checked="" type="radio"/>	D	129	A	<input checked="" type="radio"/>	C	D	154	A	<input checked="" type="radio"/>	C	D	179	A	<input checked="" type="radio"/>	C	D		
5	<input checked="" type="radio"/>	B	C	D	30	<input checked="" type="radio"/>	B	C	D	55	A	B	<input checked="" type="radio"/>	D	80	<input checked="" type="radio"/>	B	C	D	105	A	B	C	<input checked="" type="radio"/>	D	130	A	B	<input checked="" type="radio"/>	D	155	A	<input checked="" type="radio"/>	C	D	180	A	B	<input checked="" type="radio"/>	D			
6	<input checked="" type="radio"/>	B	C	D	31	A	<input checked="" type="radio"/>	C	D	56	A	B	<input checked="" type="radio"/>	D	81	<input checked="" type="radio"/>	B	C	D	106	A	<input checked="" type="radio"/>	C	D	131	A	B	<input checked="" type="radio"/>	D	156	A	B	C	<input checked="" type="radio"/>	D	181	A	B	C	<input checked="" type="radio"/>	D		
7	<input checked="" type="radio"/>	B	C	D	32	A	<input checked="" type="radio"/>	C	D	57	A	<input checked="" type="radio"/>	C	D	82	A	B	C	<input checked="" type="radio"/>	D	107	A	B	<input checked="" type="radio"/>	D	132	A	<input checked="" type="radio"/>	C	D	157	<input checked="" type="radio"/>	B	C	D	182	A	<input checked="" type="radio"/>	C	D			
8	<input checked="" type="radio"/>	B	C	D	33	<input checked="" type="radio"/>	B	C	D	58	<input checked="" type="radio"/>	B	C	D	83	A	B	C	<input checked="" type="radio"/>	D	108	<input checked="" type="radio"/>	B	C	D	133	A	B	C	<input checked="" type="radio"/>	D	158	A	B	<input checked="" type="radio"/>	D	183	A	<input checked="" type="radio"/>	C	D		
9	<input checked="" type="radio"/>	B	C	D	34	<input checked="" type="radio"/>	B	C	D	59	<input checked="" type="radio"/>	B	C	D	84	A	B	<input checked="" type="radio"/>	D	109	A	B	<input checked="" type="radio"/>	D	134	A	B	C	<input checked="" type="radio"/>	D	159	<input checked="" type="radio"/>	B	C	D	184	A	B	<input checked="" type="radio"/>	D			
10	A	B	<input checked="" type="radio"/>	D	35	A	B	<input checked="" type="radio"/>	D	60	A	B	<input checked="" type="radio"/>	D	85	A	B	<input checked="" type="radio"/>	D	110	A	B	C	<input checked="" type="radio"/>	D	135	A	B	C	<input checked="" type="radio"/>	D	160	A	B	<input checked="" type="radio"/>	D	185	A	<input checked="" type="radio"/>	C	D		
11	A	<input checked="" type="radio"/>	C	D	36	A	<input checked="" type="radio"/>	C	D	61	A	B	C	<input checked="" type="radio"/>	D	86	A	<input checked="" type="radio"/>	C	D	111	A	B	C	<input checked="" type="radio"/>	D	136	<input checked="" type="radio"/>	B	C	D	161	A	B	C	<input checked="" type="radio"/>	D	186	A	B	C	<input checked="" type="radio"/>	D
12	<input checked="" type="radio"/>	B	C	D	37	A	B	C	<input checked="" type="radio"/>	62	A	B	<input checked="" type="radio"/>	D	87	<input checked="" type="radio"/>	B	C	D	112	A	<input checked="" type="radio"/>	C	D	137	A	B	<input checked="" type="radio"/>	D	162	<input checked="" type="radio"/>	B	C	D	187	A	<input checked="" type="radio"/>	C	D				
13	<input checked="" type="radio"/>	B	C	D	38	A	B	<input checked="" type="radio"/>	D	63	A	B	<input checked="" type="radio"/>	D	88	A	<input checked="" type="radio"/>	C	D	113	A	B	<input checked="" type="radio"/>	D	138	A	B	<input checked="" type="radio"/>	D	163	A	B	<input checked="" type="radio"/>	D	188	<input checked="" type="radio"/>	B	C	D				
14	A	<input checked="" type="radio"/>	C	D	39	A	<input checked="" type="radio"/>	C	D	64	A	<input checked="" type="radio"/>	C	D	89	A	B	<input checked="" type="radio"/>	D	114	A	<input checked="" type="radio"/>	C	D	139	A	B	<input checked="" type="radio"/>	D	164	<input checked="" type="radio"/>	B	C	D	189	A	B	<input checked="" type="radio"/>	D				
15	A	B	<input checked="" type="radio"/>	D	40	A	<input checked="" type="radio"/>	C	D	65	A	B	C	<input checked="" type="radio"/>	D	90	<input checked="" type="radio"/>	B	C	D	115	A	<input checked="" type="radio"/>	C	D	140	<input checked="" type="radio"/>	B	C	D	165	<input checked="" type="radio"/>	B	C	D	190	A	B	<input checked="" type="radio"/>	D			
16	<input checked="" type="radio"/>	B	C	D	41	A	<input checked="" type="radio"/>	C	D	66	A	B	C	<input checked="" type="radio"/>	D	91	A	B	C	<input checked="" type="radio"/>	D	116	<input checked="" type="radio"/>	B	C	D	141	A	B	C	<input checked="" type="radio"/>	D	166	A	B	<input checked="" type="radio"/>	D	191	<input checked="" type="radio"/>	B	C	D	
17	A	B	<input checked="" type="radio"/>	D	42	A	B	<input checked="" type="radio"/>	D	67	A	B	C	<input checked="" type="radio"/>	D	92	A	B	C	<input checked="" type="radio"/>	D	117	A	<input checked="" type="radio"/>	C	D	142	A	B	C	<input checked="" type="radio"/>	D	167	A	<input checked="" type="radio"/>	C	D	192	A	B	<input checked="" type="radio"/>	D	
18	A	B	<input checked="" type="radio"/>	D	43	<input checked="" type="radio"/>	B	C	D	68	A	B	<input checked="" type="radio"/>	D	93	A	B	C	<input checked="" type="radio"/>	D	118	A	<input checked="" type="radio"/>	C	D	143	<input checked="" type="radio"/>	B	C	D	168	<input checked="" type="radio"/>	B	C	D	193	A	B	<input checked="" type="radio"/>	D			
19	A	B	<input checked="" type="radio"/>	D	44	A	B	C	<input checked="" type="radio"/>	69	A	<input checked="" type="radio"/>	C	D	94	A	B	C	<input checked="" type="radio"/>	D	119	<input checked="" type="radio"/>	B	C	D	144	<input checked="" type="radio"/>	B	C	D	169	A	B	<input checked="" type="radio"/>	D	194	A	<input checked="" type="radio"/>	C	D			
20	A	<input checked="" type="radio"/>	C	D	45	A	B	<input checked="" type="radio"/>	D	70	A	<input checked="" type="radio"/>	C	D	95	A	B	<input checked="" type="radio"/>	D	120	<input checked="" type="radio"/>	B	C	D	145	A	<input checked="" type="radio"/>	C	D	170	A	<input checked="" type="radio"/>	C	D	195	A	<input checked="" type="radio"/>	C	D				
21	A	B	C	<input checked="" type="radio"/>	46	A	B	<input checked="" type="radio"/>	D	71	A	B	C	<input checked="" type="radio"/>	96	<input checked="" type="radio"/>	B	C	D	121	A	B	<input checked="" type="radio"/>	D	146	A	B	<input checked="" type="radio"/>	D	171	<input checked="" type="radio"/>	B	C	D	196	A	B	<input checked="" type="radio"/>	D				
22	A	B	C	<input checked="" type="radio"/>	47	A	B	<input checked="" type="radio"/>	D	72	<input checked="" type="radio"/>	B	C	D	97	A	B	C	<input checked="" type="radio"/>	D	122	A	B	<input checked="" type="radio"/>	D	147	A	B	<input checked="" type="radio"/>	D	172	<input checked="" type="radio"/>	B	C	D	197	A	B	C	<input checked="" type="radio"/>	D		
23	A	B	<input checked="" type="radio"/>	D	48	A	B	C	<input checked="" type="radio"/>	73	A	B	<input checked="" type="radio"/>	D	98	<input checked="" type="radio"/>	B	C	D	123	<input checked="" type="radio"/>	B	C	D	148	A	B	<input checked="" type="radio"/>	D	173	<input checked="" type="radio"/>	B	C	D	198	A	B	C	<input checked="" type="radio"/>	D			
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# EDUCATIONAL TESTING & EVALUATION AGENCY (ETE) - GOVERNMENT OF KHYBER PAKHTUNKHWA

Roll Number					
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

Paper Version	
A	<input type="radio"/>
B	<input checked="" type="radio"/>
C	<input type="radio"/>
D	<input type="radio"/>

Roll Number: \_\_\_\_\_

Name: \_\_\_\_\_

Father Name: \_\_\_\_\_

Test For: MDLAT- 2023

Test Center: \_\_\_\_\_

Test Date: \_\_\_\_\_

CNIC Form B No: 

					-										-				
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### Instructions

- Answer must be filled with a blue or black pen, as per example given below.
- Any attempt to tamper with the response or provide multiple responses to any question will be treated as an incorrect answer.
- Use of any kind of unfair means, mobile phones or electronic devices or doing impersonation will lead to cancellation of the paper. The defaulter will be blacklisted from appearing in any test conducted by ETEA for two years. FIRs will also be registered against such persons under the relevant provision of law. The device/mobile phone recovered during the test will be confiscated in favor of the Government.
- No extra time will be given. The paper must be handed over to the ETEA staff as soon as given time ends.
- It must be ensured that the version of the question paper is the same as the version of the answer sheet. Otherwise, the system will generate distorted result.
- Rough work can be done anywhere on the question paper only.

Correct way of filling



Incorrect way of filling



Serial No: \_\_\_\_\_

### Certification Statement

I have read all the instructions carefully. I also declare that all the particulars stated by me on this Answer Sheet are correct to the best of my knowledge.

Signature \_\_\_\_\_

1	A	B	<input checked="" type="radio"/>	D	26	<input checked="" type="radio"/>	B	C	D	51	A	B	C	<input checked="" type="radio"/>	76	A	B	<input checked="" type="radio"/>	D	101	A	B	C	<input checked="" type="radio"/>	126	<input checked="" type="radio"/>	B	C	D	151	A	B	<input checked="" type="radio"/>	D	176	A	B	C	<input checked="" type="radio"/>	
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# EDUCATIONAL TESTING & EVALUATION AGENCY (ETE A) - GOVERNMENT OF KHYBER PAKHTUNKHWA

Roll Number					
0	0	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	5	5	5	5
6	6	6	6	6	6
7	7	7	7	7	7
8	8	8	8	8	8
9	9	9	9	9	9

**Paper Version**

A

B

C

D

Roll Number: \_\_\_\_\_

Name: \_\_\_\_\_

Father Name: \_\_\_\_\_

Test For: MDCAT - 2023

Test Center: \_\_\_\_\_

Test Date: \_\_\_\_\_

CNIC Form B No: 

				-								-		
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Correct way of filling



Incorrect way of filling



Serial No: \_\_\_\_\_

### Certification Statement

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Signature \_\_\_\_\_

1	A	<input checked="" type="radio"/>	C	D	26	A	<input checked="" type="radio"/>	C	D	51	A	<input checked="" type="radio"/>	C	D	76	A	B	<input checked="" type="radio"/>	D	101	A	B	<input checked="" type="radio"/>	D	126	A	B	C	<input checked="" type="radio"/>	151	A	B	C	<input checked="" type="radio"/>	176	A	B	<input checked="" type="radio"/>	D
2	A	<input checked="" type="radio"/>	C	D	27	A	<input checked="" type="radio"/>	C	D	52	A	B	<input checked="" type="radio"/>	D	77	<input checked="" type="radio"/>	B	C	D	102	<input checked="" type="radio"/>	B	C	D	127	A	B	<input checked="" type="radio"/>	D	152	<input checked="" type="radio"/>	B	C	D	177	<input checked="" type="radio"/>	B	C	D
3	A	B	C	<input checked="" type="radio"/>	28	A	B	C	<input checked="" type="radio"/>	53	A	B	C	<input checked="" type="radio"/>	78	<input checked="" type="radio"/>	B	C	D	103	A	<input checked="" type="radio"/>	C	D	128	A	B	<input checked="" type="radio"/>	D	153	A	<input checked="" type="radio"/>	C	D	178	A	B	C	<input checked="" type="radio"/>
4	<input checked="" type="radio"/>	B	C	D	29	<input checked="" type="radio"/>	B	C	D	54	A	<input checked="" type="radio"/>	C	D	79	<input checked="" type="radio"/>	B	C	D	104	A	<input checked="" type="radio"/>	C	D	129	A	<input checked="" type="radio"/>	C	D	154	A	B	<input checked="" type="radio"/>	D	179	<input checked="" type="radio"/>	B	C	D
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20	A	B	<input checked="" type="radio"/>	D	45	<input checked="" type="radio"/>	B	C	D	70	A	B	C	<input checked="" type="radio"/>	95	A	B	<input checked="" type="radio"/>	D	120	A	B	C	<input checked="" type="radio"/>	145	A	B	<input checked="" type="radio"/>	D	170	<input checked="" type="radio"/>	B	C	D	195	A	B	C	<input checked="" type="radio"/>
21	<input checked="" type="radio"/>	B	C	D	46	A	B	C	<input checked="" type="radio"/>	71	A	<input checked="" type="radio"/>	C	D	96	A	<input checked="" type="radio"/>	C	D	121	A	B	C	<input checked="" type="radio"/>	146	A	B	C	<input checked="" type="radio"/>	171	A	<input checked="" type="radio"/>	C	D	196	A	B	<input checked="" type="radio"/>	D
22	A	B	<input checked="" type="radio"/>	D	47	A	<input checked="" type="radio"/>	C	D	72	A	B	C	<input checked="" type="radio"/>	97	<input checked="" type="radio"/>	B	C	D	122	<input checked="" type="radio"/>	B	C	D	147	A	B	C	<input checked="" type="radio"/>	172	A	<input checked="" type="radio"/>	C	D	197	<input checked="" type="radio"/>	B	C	D
23	<input checked="" type="radio"/>	B	C	D	48	A	B	<input checked="" type="radio"/>	D	73	A	<input checked="" type="radio"/>	C	D	98	A	B	C	<input checked="" type="radio"/>	123	A	<input checked="" type="radio"/>	C	D	148	A	B	C	<input checked="" type="radio"/>	173	<input checked="" type="radio"/>	B	C	D	198	<input checked="" type="radio"/>	B	C	D
24	A	B	C	<input checked="" type="radio"/>	49	<input checked="" type="radio"/>	B	C	D	74	A	<input checked="" type="radio"/>	C	D	99	<input checked="" type="radio"/>	B	C	D	124	<input checked="" type="radio"/>	B	C	D	149	A	B	<input checked="" type="radio"/>	D	174	<input checked="" type="radio"/>	B	C	D	199	A	<input checked="" type="radio"/>	C	D
25	<input checked="" type="radio"/>	B	C	D	50	A	B	C	<input checked="" type="radio"/>	75	A	<input checked="" type="radio"/>	C	D	100	A	<input checked="" type="radio"/>	C	D	125	A	<input checked="" type="radio"/>	C	D	150	<input checked="" type="radio"/>	B	C	D	175	A	B	<input checked="" type="radio"/>	D	200	A	B	<input checked="" type="radio"/>	D