# **University of Health Sciences, Lahore**



Max. Marks: 1100

В

ID  $\bigcirc$ 

1

2

3

# **ENTRANCE TEST – 2014** For F.Sc. and Non-F.Sc. Students Time Allowed: 150 minutes

# **Instructions:**

Total MCQs: 220

- i. Read the instructions on the MCQs Response Form carefully.
- Choose the **Single Best Answer** for each question. ii.
- iii. Candidates are strictly prohibited from giving any identification mark except Roll No. & Signature in the specified columns only.

# **COMPULSORY QUESTION FOR IDENTIFICATION**

Q-ID. What is the color of your Question Paper?

- A) White.
- B) Blue.

C) Pink.

D) Green.

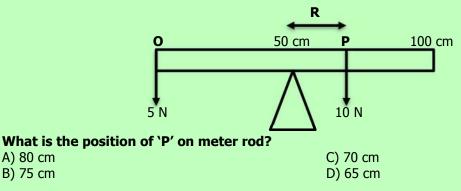
D) ms<sup>-1</sup>A<sup>-3</sup>

Ans: Colour of your Question Paper is Green. Fill the Circle Corresponding to Letter 'D' against 'ID' in your MCQ response form (Exactly as shown in the diagram).

# PHYSICS

- Q.1 The formula for electric field strength is E = F/Q', where E is electric field strength and F is force and Q is charge. Which one of the following options gives the correct base units for electric field strength? C)  $kq^{2}m^{-2}s^{-3}A$ 
  - A) kgms<sup>-3</sup>A<sup>-1</sup> B) kas<sup>-2</sup>A<sup>-3</sup>

- Which set of the prefixes gives values in increasing order? Q.2 C) Tera, Pico, Micro, Kilo A) Pico, Mega, Kilo, Tera B) Pico, Micro, Mega, Giga D) Giga, Kilo, Milli, Nano
- Two forces, 5 N and 10 N are acting at 'O' and 'P' respectively on a uniform meter rod suspended Q.3 at the position of centre of gravity 50 cm mark as shown in the figure.



- An oil film floating on water surface exhibits colour pattern due to the phenomenon of: Q.4
  - A) Diffraction B) Polarization

A) 80 cm

B) 75 cm

C) Interference D) Surface tension



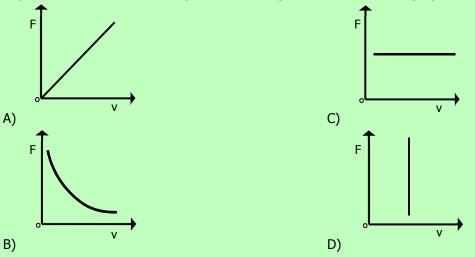
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Q.7

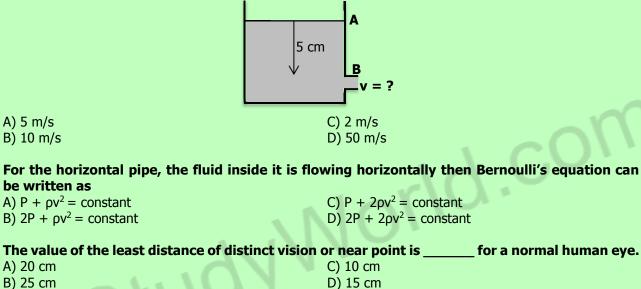
Q.8

B) M = -0.19

Q.5 Which of the following is the best graphical representation between drag force `F' on a spherical object of radius `r' and its speed `v' through a fluid of viscosity `η'?



Q.6 What is the speed of an incompressible non-viscous liquid flowing out from 'B' contained in a container as shown in the figure? Where AB = 5 m and g = 10 m/s<sup>2</sup>.



Q.9 In a compound microscope, the magnification by objective = 20, magnification by eyepiece = 11, then the total magnification is A) M = -220 C) M = -0.05

D) M = 220

Q.10 The distance between atoms is 0.30 nm. What will be the wavelength of X-rays at angle  $\theta = 30^{\circ}$ for 1<sup>st</sup> order diffraction? A)  $\lambda = 0.60$  nm C)  $\lambda = 0.20$  nm

	C/X = 0.20 mm
B) $\lambda = 0.30 \text{ nm}$	D) λ = 0.90 nm

Q.11 A 100 kg man is standing in an elevator, which accidently falls freely. What will be the weight of the person in the freely falling elevator (take g=10 m/s<sup>2</sup>) A) 1000 N C) 500 N

B) 10 N D) Zero

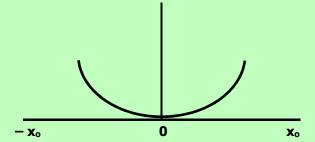
# Q.12Frequency of simple pendulum of length 9.8 m will be<br/>A) 2 $\pi$ HertzC) 1/2 $\pi$ HertzB) $\pi/2$ HertzD) $\pi/4$ Hertz

# Q.13 A body performs simple harmonic motion with a period of 0.063 s. The maximum speed of 3.0 ms<sup>-1</sup>. What are the values of the amplitude 'x<sub>0</sub> (m)' and angular frequency ' $\omega$ (rads<sup>-1</sup>)'? A) x<sub>0</sub> = 0.03 $\omega$ = 100 C) x<sub>0</sub> = 5.3 $\omega$ = 16

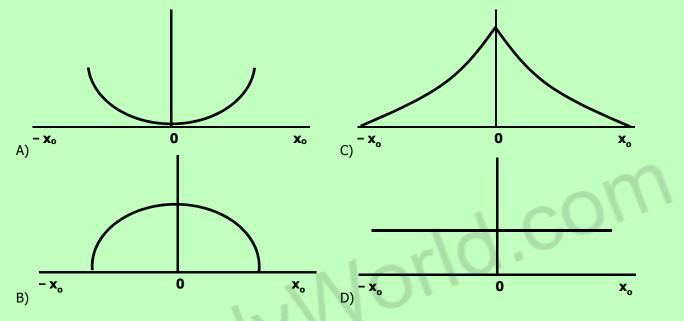
A) $x_0 = 0.03$ , $\omega = 100$	C) $x_0 = 5.3, \omega = 16$
B) $x_0 = 0.19, \omega = 16$	D) $x_0 = 3.3, \omega = 100$



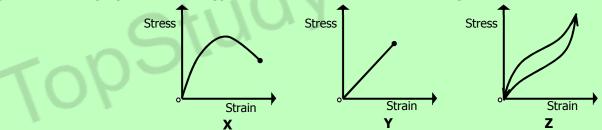
- Q.14Food being cooked in microwave oven is an example of<br/>A) BeatsC) ResonanceB) OvertonesD) Stationary waves
- Q.15 Potential energy of a mass spring system with respect to displacement during simple harmonic motion (SHM) is shown in the figure.



Which of the following represents the total energy of mass spring system during SHM?



Q.16 Three graphs for three types of materials are shown in the figure.



### Which row describes the correct materials?

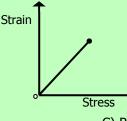
	X	Υ	Z
A)	Brittle	Ductile	Polymer
B)	Brittle	Polymer	Ductile
C)	Polymer	Brittle	Ductile
D)	Ductile	Brittle	Polymer

- Q.17 A gas containing `N' number of molecules of a gas having mass of each molecule `m' is in a cubic container having length of each side `a'. What is the density of gas contained in cube? A) N/a<sup>2</sup> B) m/a<sup>3</sup> C) Nm/a<sup>3</sup> D) Na<sup>3</sup>/m
- Q.18 In 'General Gas Equation PV=nRT', 'n' represents the number of moles of gas. Which of the following represents the relation of 'n'?
  - A)  $n = NN_A$ B)  $n = N/N_A$

C) n = N<sub>A</sub>/N D) n = N + N<sub>A</sub>



#### Page 4 of 21 Q.19 Which feature of the following graph represents Young's Modulus?



A) Area under graph B) Gradient of the graph C) Reciprocal of the gradient

D) Product of gradient and area of the curve.

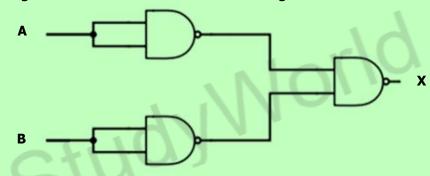
- At triple point of water, the pressure of gas is 2680 Pa, by changing 'T' the pressure increases Q.20 to 4870 Pa. Then 'T' is: A) 496.38 K
  - B) 438.96 K

C) Zero D) 496.38 °F

Q.21 The relation between Celsius and Fahrenheit scales is:

	$\frac{C}{$
	100 180
At what temperature both scales give	the same reading?
A) -100°	C) -180°
B) -40°	D) -273º

- Q.22 A heat engine working according to second law of thermodynamics has 50% efficiency. What will be the temperature of its low temperature reservoir if high temperature reservoir is 327 °C? A) 27 °C C) 300 °C B) 127 ℃ D) 600 ℃
- Q.23 Three NAND gates are connected as shown in the figure.



Which of the following logic gate is formed in the connected circuit? C) NOR A) OR

AJUK	C) NOR
B) AND	D) NAND

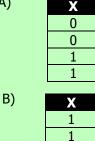
#### What is the output of the truth table? Q.24

Α	В	Output x = AB + AB
0	0	
0	1	
1	0	
1	1	

C

D

A)



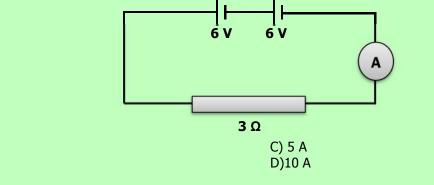
1 0

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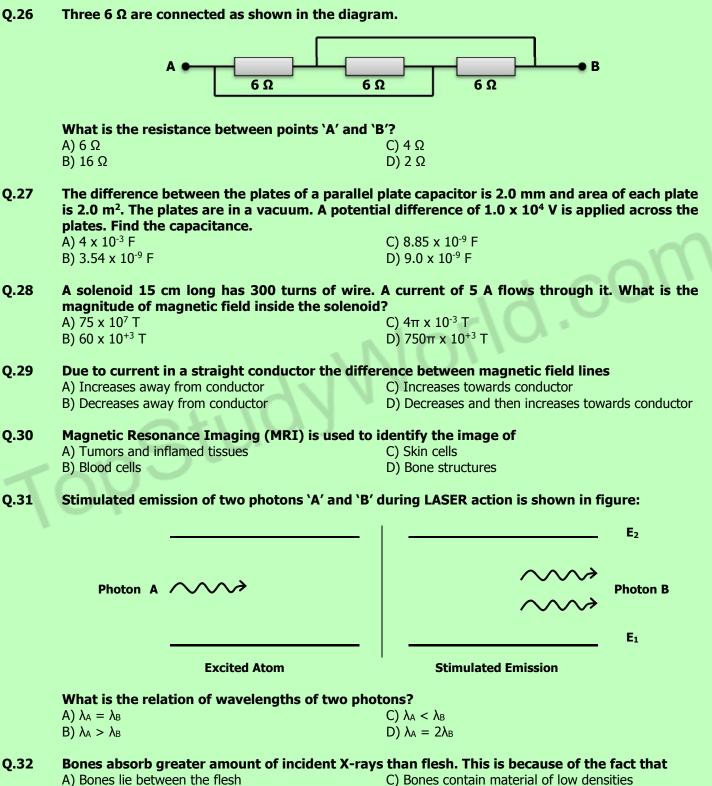
What is the reading of Ammeter as shown in the circuit diagram? Q.25



Q.26 Three 6  $\Omega$  are connected as shown in the diagram.

A) 1 A

B) 15 A



- A) Bones lie between the flesh B) Bones are light in color
- D) Bones contain material of high densities

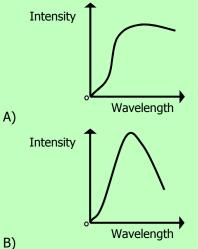
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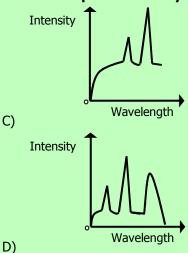
#### Which of the following techniques is the practical application of X-rays? Q.33

- A) Magnetic Resonance Imaging
  - B) Ultrasonography

- C) Computerized Axial Topography
- D) Positron Emission Tomography

#### Which one of the following spectra is most typical of the output of an X-ray tube? Q.34





#### Which one of the following has the largest energy content? Q.35 C) Infra-red radiations A) $\gamma$ -rays D) Ultra-violet radiations B) X-rays

#### Q.36 What will be the energy of accelerated electron used to produce X-rays when the accelerating potential is 2 kV? A) 2 x 10<sup>-19</sup> J C) 3.2 x 10<sup>19</sup> J D) 3.2 x 10<sup>-16</sup> J B) 1.6 x 10<sup>-19</sup> J

Process of generating three dimensional images of objects by using laser beam is called Q.37 C) Holography A) Photography B) 3-D cinema D) Tomography

#### Which one of the following isotopes of Iodine is used for the treatment of thyroid cancer? Q.38 A) I - 113 C) I - 131 B) I - 120

D) I - 140	

#### **Q.39** A beta ( $\beta$ ) particle is a fast-moving electron. During a $\beta$ – decay how the atomic number and mass number of a nucleus change?

	Atomic Number	Mass Number
A)	Remains the same	Increases by one
B)	Increases by one	Decreases by two
C)	Increases by one	Remains the same
D)	Decreases by two	Decreases by four

#### A Uranium isotope $^{232}_{92}$ U undergoes one $\alpha$ -decay and one $^{0}_{-1}\beta$ - decay. What is the final product? Q.40 A) 90 C) 89 D) 88

- B) 92
- A naturally occurring radioactive element decays two alpha particles. Which one of the following Q.41 represents status of daughter element with respect to mass number 'A' and charge number 'Z'? A) 'Z' decreases by 4 and 'A' decreases by 2 C) 'Z' decreases by 4 and 'A' decreases by 8 B) 'Z' decreases by 2 and 'A' decreases by 4 D) 'Z' decreases by 8 and 'A' decreases by 4
- Q.42 A radioactive isotope 'W' decays to 'X' which decays to 'Y' and 'Y' decays to 'Z' as represented by the figure below:

α

What is the change in the atomic number from 'W' to 'Z'?

A) Increases by 3

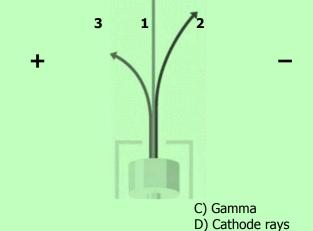
B) Decreases by 3

C) Increases by 5 D) Decreases by 5



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Q.43 Three paths of radioactive radiations are observed as shown in the figure in the presence of electric field. Which type of radiation is shown in path 1?



A) Alpha B) Beta

Q.44

- What is the absorbed dose 'D' of a sample of 2 kg which is given an amount of 100 J of
  - radioactive energy? A) 200 Gy
  - B) 102 Gy

C) 50 Gy D) 98 Gy

C) 3.01 x 10<sup>24</sup>

D) 3.01 x 10<sup>23</sup>

C) -4 °C

D) 2 °C

# **CHEMISTRY**

#### A polymer of empirical formula CH<sub>2</sub> has molar mass of 28000 g mol<sup>-1</sup>. Its molecular formula will be Q.45

- A) 100 times that of its empirical formula B) 200 times that of its empirical formula
- C) 500 times that of its empirical formula
- D) 2000 times that of its empirical formula
- The number of molecules in 9 g of ice (H<sub>2</sub>O) is **Q.46** A) 6.02 x 10<sup>24</sup> B) 6.02 x 10<sup>23</sup>
- Q.47 Ice is less dense than water at: A) 0 °C B) 4 °C
- At a given temperature and pressure, the one which shows marked deviation from ideal Q.48 behavior is

A) N2		C) CO <sub>2</sub>
B) N₃		D) He

Q.49 According to the number of protons, neutrons and electrons given in the table, which one of the following options is correct?

	Species	Proton	Neutron	Electron
	As	33	42	30
	Ga	31	39	28
	Ca	20	20	20
A) As <sup>-3</sup> , Ga <sup>+3</sup> , Ca	C) As <sup>+3</sup> , Ga <sup>+3</sup> , Ca <sup>+2</sup>			Ga <sup>+3</sup> , Ca <sup>+2</sup>
B) As <sup>+1</sup> , Ga <sup>+2</sup> , Ca			D) As <sup>+1</sup> ,	Ga, Ca <sup>+2</sup>

- Q.50 If the e/m value of electron is  $1.7588 \times 10^{11}$  coulombs Kg<sup>-1</sup>, then what would be the mass of electron in grams (charge on electron is 1.6022 x 10<sup>-19</sup> coulombs)? A) 9.1095 x 10<sup>-31</sup> q
  - B) 91.095 x 10<sup>-31</sup> q

C)	9.1095 x 10 <sup>-28</sup> g	
D)	0.919095 x 10 <sup>-33</sup> g	

#### The suitable representation of dot structure of chlorine molecule is: Q.51

A)	CI: CI:
B)	CI CI

...

...

	rine	m	Diecule
C)	ĊI		ĊI
D)	či	:	čı

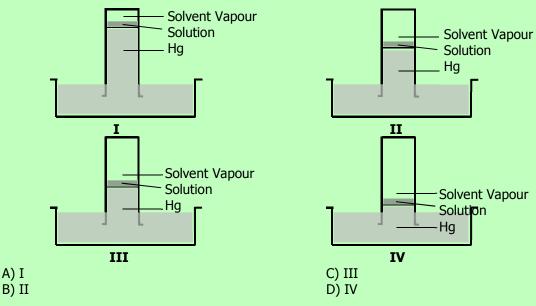


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Q.52		erlap in such a way that the probability of finding
-	electron is maximum around the line joining th	
	A) Sigma Bond B) Pi-Bond	C) Hydrogen Bond D) Metallic Bond
Q.53	$2H_2 + O_2 \longrightarrow 2H_2O \qquad \Delta H = +285.5$	
	What will be the enthalpy change in the above A) 205.5 kJ/mol	reaction? C) -205.5 kJ/mol
	B) Zero kJ/mol	D) 1 kJ/mol
Q.54	Combustion of graphite to form $CO_2$ can be dor $C + O_2 \longrightarrow CO_2$	he by two ways. Reactions are given as follows: $\Delta H = -393.7 \text{ kJ mol}^{-1}$
	$C + \frac{1}{2}O_2 \longrightarrow CO$	$\Delta H = ?$
	$CO + \frac{1}{2}O_2 \longrightarrow CO$	$\Delta H = -283 \text{ kJ mol}^{-1}$
	What will be enthalpy of formation of CO?	
	A) -676 kJ mol <sup>-1</sup> B) -110 kJ mol <sup>-1</sup>	C) 110 kJ mol <sup>-1</sup> D) 676 kJ mol <sup>-1</sup>
Q.55		reaction $2HF_{(s)} \rightleftharpoons H_{2(g)} + F_{2(g)}$ is $10^{-13}$ at 2000 °C.
	Calculate the value of $K_p$ for this reaction: A) 2 x 10 <sup>-13</sup>	C) 186 x 10 <sup>-13</sup>
	A) 2 X 10 <sup>-25</sup> B) 10 <sup>-13</sup>	C) $180 \times 10^{-5}$ D) $3.48 \times 10^{-9}$
	-,	
Q.56		olutions of different concentrations are shown.
	Which line represents pure water? Normal	
	Atmospheric	
	Pressure T <sub>1</sub> >T <sub>2</sub> >T <sub>3</sub> >T <sub>4</sub> (i)	
	(ii)	
	(iii) (iv)	
	(17)	
	Ter	T1 T2 T3 T4 mperature (°C)
	A) (i)	C) (iii)
	B) (ii)	D) (iv)
Q.57	In SO4 <sup>-2</sup> the oxidation number of Sulphur is	
Q.57	A) -8	C) -6
	B) +8	D) +6
Q.58	Coinage metals Cu, Ag, and Au are the least rea	active because they have
Q.30	A) Negative reduction potential	C) Negative oxidation potential
	B) Positive reduction potential	D) Positive oxidation potential
Q.59	What will be the pH of a solution of NaOH with	a concontration of 10-3 M2
Q.39	A) 3	C) 11
	B) 14	D) 7
0.60	If the version or product of a chemical read	stion can abcorb ultraviolat visible or infrared
Q.60		ction can absorb ultraviolet, visible or infrared on can best be measured by which one of the
	following methods?	
	A) Chemical method	C) Graphical method
	B) Spectrometry	D) Differential method
Q.61	For the reaction 2NO + $O_2 \rightleftharpoons 2NO_2$ , the rate equ	lation for the forward reaction is
	A) Rate = $k$ [NO] [O <sub>2</sub> ]	C) Rate = $k [NO_2]^2$
	B) Rate = k [NO] <sup>2</sup> [O <sub>2</sub> ]	D) Rate = $k [NO_2]$
Q.62	Radon is emitter and being radioactive	e is used in treatment in radiotherapy:
•	A) β, cancer	C) $\alpha$ , kidney stone
	B) $\alpha$ , cancer	D) β, kidney stone

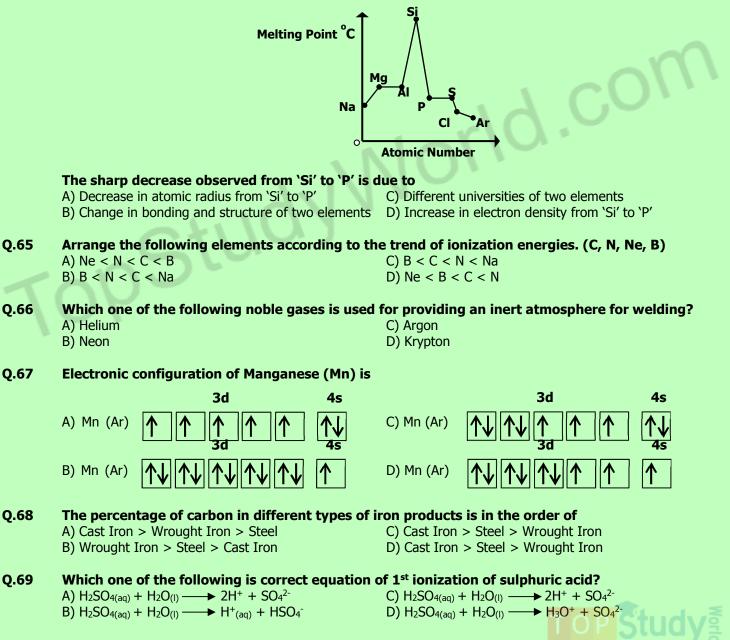
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Q.63 One mole of glucose was dissolved in 1 kg of water, ethanol, ether and benzene separately and the molal boiling point constant of each individual solution was found to be 0.52, 1.75, 2.16 and 2.70 in the units of / °C kg mol<sup>-1</sup> respectively. Which of the following figures shows benzene as solvent in solution?



Q.64 The trends, in melting points of the elements of 3rd period, are depicted in figure below.



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Q.70 Which one of the following is the correct chemical reaction for Ammonia formation by Haber process?

A)  $N_{2(g)} + 3H_{2(g)} \longrightarrow 2NH_{3(g)}$ B)  $2N_{(g)} + 3H_{2(g)} \rightleftharpoons NH_{3(g)}$ 

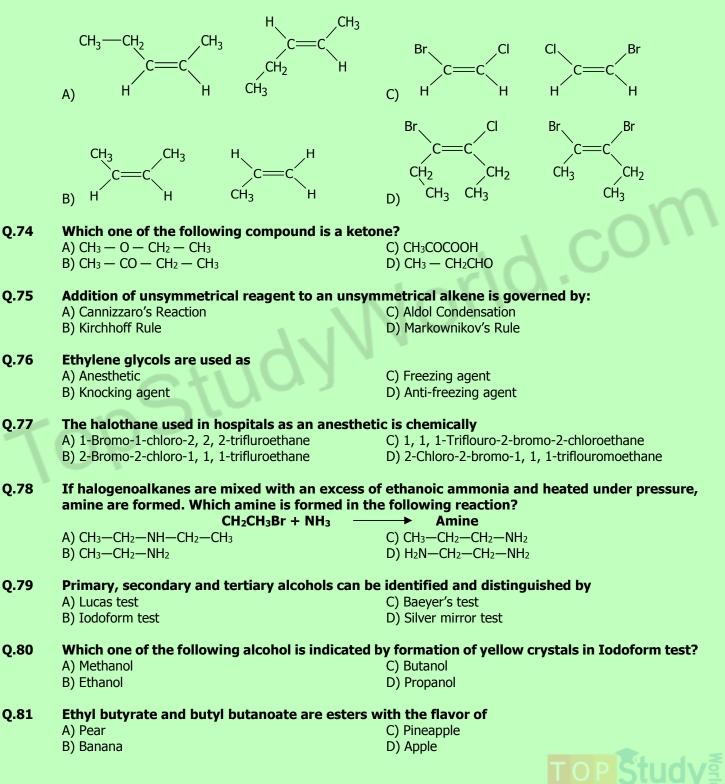
- Q.71 The pH of acid rain is
  - A) 7
    - B) Between 5 and 7

C)  $2N_{(g)} + 3H_{2(g)} \longrightarrow 2NH_{3(g)}$ D)  $N_{2(g)} + 3H_{2(g)} \rightleftharpoons 2NH_{3(g)}$ 

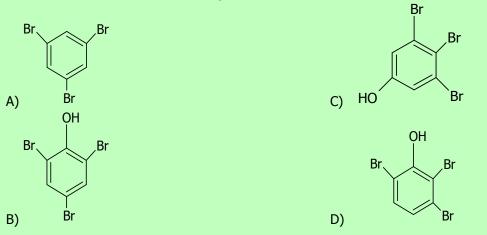
C) Below 5

- D) Between 7 and 14
- Q.72 Which one of the following products is obtained when sulphur trioxide is absorbed in concentrated sulphuric acid?
  - A) Oleum
  - B) Aqua Regia

- C) Hydrogen sulphide
- D) Sulphate ion
- Q.73 Which one of the following pair of compounds is cis and trans isomers of each other?



## Q.82 The formula of 2, 4, 6-tribromo phenol is



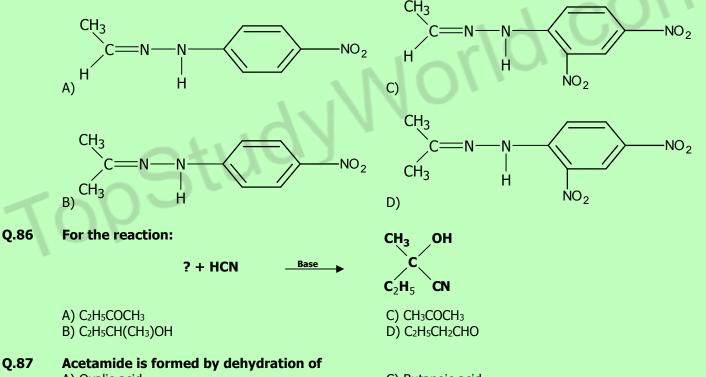
Q.83 Which one of the following groups is indicated when HCl is formed by reaction of ethanol with phosphorous pentachloride?

- A) Amino group
- B) Hydroxyl group

C) Halide group

- D) Hydride group
- Q.84 A student mixed ethyl alcohol with small amount of sodium dichromate and added it to the hot solution of dilute sulphuric acid. A vigorous reaction took place. He distilled the product formed immediately. What was the product?
  - A) Acetone
  - B) Acetic acid

- C) Dimethyl ether D) Acetaldehyde
- Q.85 The structural formula of the product of reaction of acetone with 2, 4-dinitrophenyl hydrazine is:



A) Oxalic acidB) Ethanoic acid

- C) Butanoic acid
- D) Propanoic acid
- Q.88 Organic compounds 'X' and 'Y' both can react with Na-Metal to evolve hydrogen gas. If 'X' and 'Y' react with each other form an organic compound 'Z' which gives fruity smell. What type of compound 'X', 'Y' and 'Z' are?

	X	Υ	Z
A)	Alcohol	Ester	Acetic Acid
B)	Alcohol	Ester	Mineral Acid
C)	Alcohol	Acetic Acid	Ester
D)	Alcohol	Mineral Acid	Ester



#### Page 12 of 21 Q.89 The amino acids which are not prepared in human body are called A) Essential amino acids C) Alpha amino acids B) Non-essential amino acids D) Beta amino acids Q.90 Indicate the cyclic amino acid from the following: A) Cysteine C) Haloamine B) Serine D) Proline Q.91 Which one of the following is Glutamic Acid? H<sub>2</sub>N COOH соон H<sub>2</sub>N CH<sub>2</sub>CH<sub>2</sub>CO<sub>2</sub>H A) н C) н н COOH COOH H<sub>2</sub>N H<sub>2</sub>N CH<sub>2</sub>COOH CH<sub>3</sub> B) D) Q.92 At low pH or in acidic condition amino acid exists as A) Anion C) Zwitter ion B) Cation D) Neutral specie Q.93 The structure shown below represents: н $CH_2$ COOH NH NH<sub>2</sub> A) Proline C) Glycine B) Histidine D) Lysine Q.94 Which one of the following reagent is used for identification of amino acids? C) Ninhydrin A) Fehling's solution B) Benedict's solution D) Copper (II) Sulphate Which one of the following is an example of condensation polymer? Q.95 A) Polyvinylchloride C) Polyethene B) Polystyrene D) Polyamide Q.96 Among the most common disaccharides, which one of the followings is present in the milk? C) Fructose A) Sucrose B) Maltose D) Lactose Q.97 Fats are a type of lipid called glycerides. They are esters of long chain carboxylic acids: C) Propene-1, 2, 3-diol A) Propene-1, 2, 3-triol B) Propane-1, 2, 3-triol D) Propane-1, 2, 3-diol Which one of the following base is NOT present in RNA? Q.98 A) Cytosine C) Thymine B) Adenine D) Guanine throughout the body Q.99 Collagen proteins are present in A) Muscle C) Tendons B) Red blood cells D) Blood plasma Q.100 is an eye irritant.

# A) Peroxyacetyl nitrateB) Peroxyacetyl nitrite

C) Peroxymethoxy aniline

D) Peroxyacetyl aniline



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Q.101	Polystyrene is an addition polymer. Which on monomer of polystyrene?	-	represents the
	A) $CH_2 = CH_2$	<sub>C)</sub> CH <sub>2</sub> ==CHCl	
	$(H_2 = CH - CH_3)$	C) $CH_2 = CH - CI$ D) $CH_2 = CH - C_6H_5$	
Q.102	Which one of the following pollutants can caus of red blood cells?	e death of a person by binding w	ith haemoglobin
	A) Chlorofluorocarbons	C) Carbon monoxide	
	B) Oxides of Sulphur	D) Oxides of nitrogen	
	<u>ENGLI</u>	<u>SH</u>	
Q.103	It is our national duty to o	our vote in the general election	
Q.105	A) Throw	C) Drop	
	B) Cast	D) Refuse	
Q.104	She is intelligent enough to	_ things to serve her own purpos	e.
	A) Pick	C) Give	
	B) Maneuver	D) Take	
Q.105	She about the excitement on he	aring the news of her sister's we	dding
Q.105	A) Ran	C) Talked	aung.
	B) Jigged	D) Wept	
Q.106	Everyone should be duties a		/her abilities.
	A) Prevented B) Advised	C) Delegated D) Suggested	
		D) Suggested	
$\Longrightarrow$	SPOT THE ERROR: In the following sent	ences, some segments of eac	h sentence are
•	underlined. Your task is to identify that		
	contains the mistake that needs to be con		onding to that
	letter under the segment in the MCQ Resp	onse From.	
Q.107	We were ten miles up the highway when I happened	to saw this classified advertisement	in the newspaper.
<b>4</b>	A) B)	C)	D)
Q.108	"All is well what ends well", said the father when he	had finished <u>the story</u> .	
1	A) B) C)	D)	
Q.109	Rubber tubes upon which children had swing		<u>ke</u> stopped clock
	A) B) B) pendulums <u>in the</u> blazing air.	) C)	
	D)		
Q.110	The child was <u>fully</u> dressed and <u>sitting</u> in her father's A) B) C)	lap near the <u>kitchen table</u> . D)	
Q.111	The three Abdal Rahman, like his illustrious	predecessor, <u>was a</u> young man	of twenty-three
	A) B) <u>when he</u> took office.	C)	
	D)		
Q.112	Enlarged and beautified by later Caliphs, Al-		a royal suburb
	A)	B)	
	whose remain partly evacuated in and after 1910, ca C) D)	II Suil De Seen.	
	·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·, ·		



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In each of the following question, four alternative sentences are given. Choose the CORRECT one and fill the Circle corresponding to that letter in the MCQ Response Form.

## Q.113

- A) I thought it over very carefully before broaching the subject to Asma.
- B) I thought it on very carefully before broaching the subject to Asma.
- C) I thought it by very carefully before broaching the subject to Asma.
- D) I thought it upon very carefully before broaching the subject to Asma.

### Q.114

- A) He left into a blaze of anger.
- B) He left with a blaze of anger.
- Q.115
- A) Shahid battered Anwar down submission.
- B) Shahid battered Anwar into submission.
- C) Shahid down battered Anwar into submission.
- D) Shahid was battered Anwar down submission.

C) He left in a blaze of anger.

D) He left back in a blaze of anger.

## Q.116

- A) Pride was an intrinsic component of his personal makeup.
- B) Pride was a intrinsic component of his personal makeup.
- C) Pride an intrinsic component of his personal makeup.
- D) Pride were an intrinsic component of his personal makeup.

## Q.117

- A) The government introduced tax laws which gave incentives to factory workers to reduce pollution.
- B) The government introduced tax laws who gave incentives to factory workers to reduce pollution.
- C) The government introduced tax laws which have incentives to factory workers to reduce pollution.
- D) The government introduced tax laws which has incentives to factory workers to reduce pollution.

## Q.118

- A) It was cold and foggy, and he dared not to going out.
- B) It was cold and foggy, and he dared not for going out.
- C) It was cold and foggy, and he dared not go out.
- D) It was cold and foggy, and he dared not gone out.

## Q.119

- A) There was much cheering and singing and a bread fighting across the dining hall.
- B) There was much cheering and singing and a bread fight across the dining hall.
- C) There was more cheer and singing and a bread fighting across the dining hall.
- D) There was much cheer and singing and a bread fighting across the dining hall.

# Q.120



- A) Both parents of Jameel were then long died.
- B) Both parents of Jameel were then long dead.

## Q.121

A) But the men ate their supper with good appetites. B) But the men ate their supper in good appetites.

## Q.122

- A) The boy was afraid of going to jail.
- B) The boy was afraid off going to jail.

- C) Both parents of Jameel were by then long dead.
- D) Both parents of Jameel were by then long died.
- C) But the men ate their supper for good appetites.
- D) But the men ate their supper into good appetites.
- C) The boy was afraid on going to jail.
- D) The boy was afraid by going to jail.

# In each of the following question, four alternative meanings of a word are given. You have to select the NEAREST CORRECT MEANING of the given word and fill the appropriate Circle on the MCQ Response Form.

- DISDAIN Q.123
  - A) Vice B) Dislike

C) Contempt D) Ignorance



Q.124	<b>SAGACITY</b> A) Suspicious B) Cruelty	Page 15 of 21 C) Wisdom D) Foolishness
Q.125	FLAUNT A) Snipe B) Dance	C) Show off D) Preserve
Q.126	<b>URBANE</b> A) Suave B) Rough	C) Bad D) Dishonest
Q.127	<b>DIASPORA</b> A) Gathering B) Dispersion	C) Alliance D) Animosity
Q.128	IMPETUOUS A) Honest B) Impulsive	C) Lazy D) Liar
Q.129	<b>VOCIFEROUS</b> A) Hidden B) Loud	C) Strong D) Weak
Q.130	<b>TRANSIENT</b> A) Permanent B) Temporary	C) Long D) Good
Q.131	<b>PROWESS</b> A) Hindrance B) Skill	C) Reservation D) Bad name
Q.132	<b>BEQUEATH</b> A) Grant B) Imbibe	C) Irrigate D) Hope
	BIOLO	<u>GY</u>
Q.133	The use of living organisms in industry for the p A) Parasitology B) Biochemistry	production of useful products is known as C) Biotechnology D) Molecular Biology
Q.134	<b>Plants having foreign DNA incorporated into th</b> A) Clone plants B) Transgenic plants	<b>eir cells are called:</b> C) Parthenocarpic plants D) Mutant giants
Q.135	<b>Treatment by using attenuated culture of bacte</b> A) Chemotherapy B) Sterilization	eria is called C) Antisepsis D) Vaccination
Q.136	<b>The major cause of hepatitis B is</b> A) Blood transfusion B) Blood clotting	C) Absence of fibrinogen D) Contaminated soil
Q.137	<b>During animal cell division, the spindle fibres a</b> A) Mitochondria B) Centrioles	<b>re formed from</b> C) Ribosomes D) Lysosomes
Q.138	Which component of the cell is concerned with A) Plasma membrane	<b>cell secretions?</b>

A) Plasma membraneB) Golgi complex

C) Cytoskeleton D) Mitochondria



	Page 16 of 21			
Q.139	During which period of interphase (cell cycle) D	PNA is synthesized? C) S		
	A) G <sub>1</sub> B) G <sub>2</sub>	D) G₀		
		·		
Q.140	Peptidoglycan or murein is a special or distincti			
	A) Algae B) Fungi	C) Bacteria D) Plants		
Q.141	In mitochondria, small knob-like structures call			
	A) Outer membrane	C) Inner membrane		
	B) Outer compartment	D) Inner compartment		
Q.142	The most critical phase of mitosis which en	sures equal distribution of chromatids in the		
-	daughter cells is			
	A) Prophase	C) Anaphase		
	B) Metaphase	D) Telophase		
Q.143	Non-disjunction of 21 <sup>st</sup> pair of chromosomes in one individual. This condition is called	one of the gamete leads to 47 chromosomes in		
	A) Turner's syndrome	C) Down's syndrome		
	B) Klinefelter's syndrome	D) Jacob's syndrome		
Q.144	The intake of liquid materials across the cell me	embrane is		
Q.1.1.1	A) Phagocytosis	C) Pinocytosis		
	B) Endocytosis	D) Exocytosis		
0.145	Which one of the following is the site of evidenti	us absorbendation in witzabanduis 2		
Q.145	Which one of the following is the site of oxidati A) Cristae	C) Outer membrane		
	B) Matrix	D) Ribosomes		
	· · · · · · · · · · · · · · · · · · ·			
Q.146	Organelle involved in the synthesis of ATP is A) Ribosome	C) Nucleus		
	B) Mitochondria	D) Centriole		
Q.147	The most common respiratory substrate as a so			
	A) Glucose B) Sucrose	C) Fructose D) Insulin		
Q.148	The simplest monosaccharide containing keto g			
	A) Glyceraldehyde B) Dihydroxy acetone	C) Glucose D) Ribose		
	b) binydroxy acetone	D) RIDOSE		
Q.149	If the genetic code is made up of three nucleoti			
	A) 4	C) 64		
	B) 20	D) 61		
Q.150	Waterproof surfaces like cuticle of leaf and prot	tective covering of an insect's body are		
-	A) Phospholipids	C) Terpenoids		
	B) Waxes	D) Acyl glycerols		
Q.151	In translation the terminating codon is			
2	A) GUA	C) UUG		
	B) UAA	D) AGU		
0.152	All co-onzymos are derived from			
Q.152	All co-enzymes are derived from A) Proteins	C) Metal ions		
	B) Carbohydrates	D) Vitamins		
		·		
Q.153	The competitive inhibitors have structural simil	-		
	A) Active site B) Binding site	C) Substrate D) Co-enzyme		



Q.154	Which one of the following is the optimum pH	
	A) 7.60	C) 9.00 D) 9.70
	B) 8.00	D) 9.70
Q.155	A co-factor tightly bound to the enzyme on the	permanent basis is called
	A) Activator	C) Prosthetic group
	B) Co-enzyme	D) Apo-enzyme
0 156	Which one of the following calls are mainly inf	
Q.156	Which one of the following cells are mainly info	
	A) T-killer lymphocytes	C) B-plasma cells
	B) T-helper lymphocytes	D) B-memory cells
Q.157	Which one of the following antibiotic causes pe	ermanent discoloration of teeth in young children
•	if it is misused?	, ,
	A) Penicillin	C) Sulfonamide
	B) Streptomycin	D) Tetracycline
0 4 5 0		
Q.158	A) Landing $\rightarrow$ Tall contraction $\rightarrow$ Penetration $\rightarrow$ DNA	teriophage attacks bacteria and injects its DNA?
	B) Penetration $\rightarrow$ Landing $\rightarrow$ Tall contraction $\rightarrow$ DNA	
	C) Tall contraction $\rightarrow$ Landing $\rightarrow$ DNA Injection $\rightarrow$ Pe	•
	D) Landing $\rightarrow$ Penetration $\rightarrow$ Tall contraction $\rightarrow$ DNA	
	by Landing of Chetration of the Contraction of DNA	Injection
Q.159	Athlete's Foot is a disease caused by	
	A) Bacteria	C) Fungus
	B) Virus	D) Arthropod
Q.160	Ascaris is which one of the following?	
Q.100	A) Ectoparasite	C) Respiratory tract parasite
	B) Intestinal parasite	D) Urinogenital tract parasite
	,	, i i ji i i i i i i i i i i i i i i i i
Q.161	Polymorphism is a feature exhibited by member	
	A) Coelenterates	C) Porifera
	B) Arthropoda	D) Platyhelminthes
Q.162	Which one of the following is the primary host	of liver fluke?
	A) Man	C) Snail
	B) Sheep	D) Dog
	ALLU I	
Q.163	Which one of the following is an example of a f	-
	A) Liver fluke	C) Tapeworm
	B) Dugesia	D) Schistosoma
Q.164	The sources of staple food for man are plants v	which belong to the family:
<b>L</b>	A) Mimosaceae	C) Rosaceae
	B) Poaceae	D) Fabaceae
Q.165	In human, Escherichia coli is involved in the fo	
	A) Calcium	C) Vitamin A
	B) Vitamin D	D) Vitamin K
Q.166	The function of Goblet cells is to secrete	
Q.100	A) Gastrin	C) Pepsinogen
	B) Hydrochloric acid	D) Mucus
Q.167	Gastric glands are composed of	types of cells
	A) Two	C) Four
	B) Three	D) Five
0.169	HCl in anothic juice is secreted by which are a	the following colle?
Q.168	HCl in gastric juice is secreted by which one of A) Chief cells	C) Mucous cells
	B) Oxyntic cells	D) Kupffer cells
	b) Oxynuc Cens	

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Q.169	Histamine is produced by which one of the follo	wing cells?
	A) Basophils	C) Monocyte
	B) Platelets	D) Eosinophils
Q.170	Which one of the following is the most numerou	
	A) Eosinophils	C) Neutrophils
	B) Monocytes	D) Lymphocytes
0 1 7 1	The environmented blood from lumme to beaut is the	ware stand by the
Q.171	The oxygenated blood from lungs to heart is tra	
	A) Pulmonary artery	C) Pulmonary vein
	B) Coronary artery	D) Hepatic artery
Q.172	Which one of the following proteins takes part i	in blood clotting?
Q.172	A) Prothrombin	C) Immunoglobulin
	B) Fibrinogen	D) Globulin
	b) fibilitogen	
Q.173	Which one of the following is responsible for th	e production of concentrated urine?
2	A) Juxtamedullary nephrons	C) Proximal tubule
	B) Cortical nephrons	D) Distal tubule
Q.174	Reabsorption of useful constituents normally ta	kes place in which one of the following?
-	A) Proximal tubule	C) Bowman's capsule
	B) Distal tubule	D) Glomerulus
Q.175		bry system in humans acts as countercurrent
	multiplier?	
	A) Kidney	C) Medulla
	B) Cortex	D) Loop of Henle
Q.176	Anti-Diuretic Hormone (ADH) is released from	
	A) Anterior pituitary lobe	C) Hypothalamus
	B) Posterior pituitary lobe	D) Thalamus
o 4 7 7		
Q.177	Which one of the following is the main nitrogen	
	A) Urea	C) Salts
	B) Ammonia	D) Uric acid
Q.178	The right and left cerebral hemispheres are con	nected by a thick hand of nerve fibres called
Q.170	A) Medulla	C) Pons
	B) Corpus callosum	D) Hippocampus
Q.179	The part of the brain which guides smooth and a	accurate motions and maintains body position is
	called	·····, •····
	A) Cerebrum	C) Pons
	B) Cerebellum	D) Medulla
Q.180	Which one of the following is the effect of symp	bathetic nervous system?
	A) Constriction of bronchi	C) Promotes digestion or peristalsis
	B) Decrease in heart rate	D) Dilates the pupil
Q.181	High levels of aluminium may contribute to the	
	A) Parkinson's disease	C) Alzheimer's disease
	B) Epilepsy	D) Gonorrhea
Q.182	Testosterone is produced by which one of the fe	
	A) Sertoli cells	C) Interstitial cells
	B) Germinal epithelium	D) Spermatogonia
0 4 9 5		
Q.183	The oocyte released during ovulation is in	
	A) Anaphase I	C) Metaphase I
	B) Prophase I	D) Metaphase II

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Q.184	Yellowish glandular structure formed after the	
	A) Corpus callosum	C) Corpus luteum
	B) Graafian follicle	D) Follicle atresia
Q.185	On puberty, the development of primary follic	es is stimulated by
-	A) ICSH	C) LH
	B) FSH	D) Estrogen
Q.186	Causative agent of a sexually transmitted our urinogenital tract is	lisease that affects mucous membrane of the
	A) Staphylococcus aureus	C) Neisseria gonorrhoeae
	B) Treponema pallidum	D) Escherichia coli
Q.187	In a human vertebral column, the number of _	vertebrae is 7.
-	A) Cervical	C) Lumber
	B) Thoracic	D) Sacrum
Q.188	Which one of the following structures holds the A) Joints	e bones together? C) Fibrous capsules
	B) Cartilages	D) Ligaments
	b) Cal liages	D) Liganients
Q.189	Which one of the following cartilages is the mo A) Elastic cartilage	ost abundant in the human body? C) Fibrous Cartilage
	B) Chondrous cartilage	D) Hyaline Cartilage
	b) chondrous cardiage	b) Hyanne Carthage
Q.190	The repeated protein pattern of myofibrils is ca	
	A) Sarcomere	C) Sarcolemma
	B) Zyomere	D) Cross bridges
Q.191	When more energy is required in muscle contr as a secondary source.	action then that energy can also be produced by
	A) Glucose	C) Fructose
	B) Phosphocreatine	D) Lactic acid
Q.192	Which one of the following is a steroid hormon	e7
Q.172	A) Glucagon	C) Epinephrine
	B) Thyroxine	D) Oestrogen
		D) Ocstogen
Q.193	The gonadotrophic hormones of anterior lobe	
	<ul><li>A) Prolactin, Thyroid Stimulating Hormone, Somatotr</li><li>B) Follicle Stimulating Hormone, Luteinizing Hormone</li></ul>	
	C) Adrenocorticotrophic Hormone, Luteinizing Hormone	
	D) Luteinizing Hormone, Follicle Stimulating Hormone	
Q.194	Over-activity of cortical hormone of adrenal gla	and causes
	A) Addison's disease	C) Cushing's disease
	B) Parkinson's disease	D) Down's syndrome
Q.195	How many iodine atoms are present in thyroxi	ne?
Q.133	A) 3	C) 2
	B) 4	D) 5
Q.196	T-lymphocytes recognize antigen and attack m	icroorganisms or transplanted organ and tissues.
Q.130	This effect is called	coorganishis of transplanced organ and tissues.
	A) Cell-mediated response	C) Active immunity
	B) Humeral immune response	D) Passive immunity
Q.197	Which part of antibody recognizes the antigen	during immune response?
	A) Heavy part	C) Constant part
	B) Light part	D) Variable part
Q.198	What type of immunity is achieved by injecting	antibodies, antiserum, anti-venom serum?
	A) Active immunity	C) Artificially induced immunity
	B) Passive immunity	D) Naturally induced immunity

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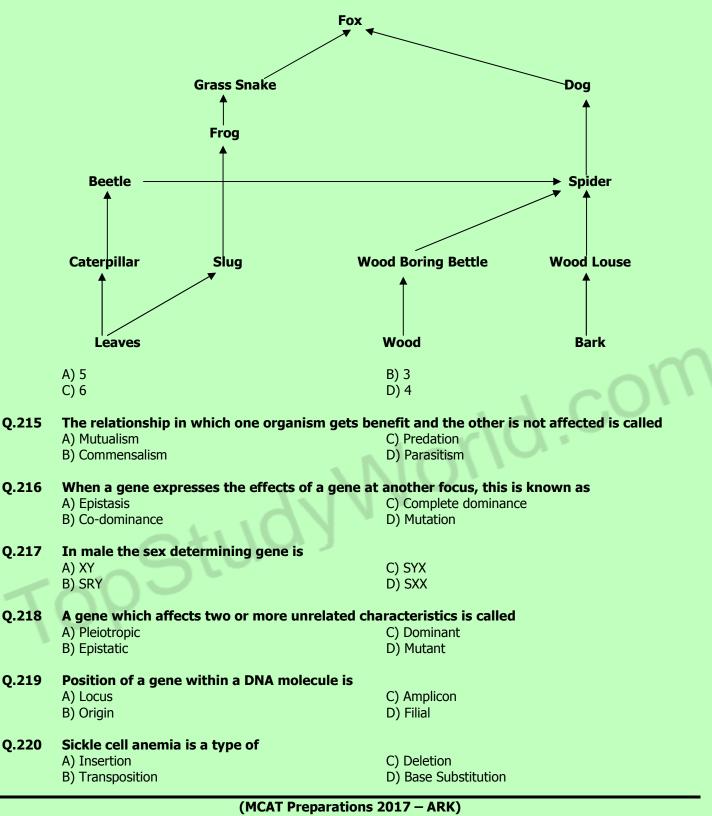
Page 20		the meduation of knowledge to 2
Q.199	Which one of the following glands is involved in	• • • • •
	A) Pineal B) Pituitary	C) Thymus D) Adrenal
Q.200	Antibodies are proteins and made up of how ma	· · · · ·
	A) One	C) Three
	В) Тwo	D) Four
Q.201	Oxidative phase of glycolysis starts with dehyd	rogenation of
Q.201	A) Glycolysis	C) Glyceraldehyde 3-phosphate
	B) Ribulose Bisphosphate	D) NADH
		, ,
Q.202	In one turn, the Krebs's cycle produces one molecules of NADH	molecule of ATP, one molecule of $FADH_2$ and
	A) 1	C) 3
	B) 2	D) 4
	0) 2	
Q.203	Which one of the following is the stage of cellul	ar respiration for which oxygen is not essential?
	A) Glycolysis	C) Krebs's cycle
	B) Pyruvate oxidation	D) Electron Transport Chain
0 204	Dumurate, the and meduct of chresholic measure	wan autocal to mitochonduial matuix where it is
Q.204	oxidized into producing CO <sub>2</sub> as a	rom cytosol to mitochondrial matrix where it is
	A) Acetic acid (active)	C) NAD
	B) Citrate	D) FAD
	,	,
Q.205	Pyruvate Acetyl CoA	
	???	
	A) $FAD^+ \rightarrow FADH$	C) NADH $\rightarrow$ NAD + H <sup>+</sup>
	B) $NAD^+ \rightarrow NADH$	D) FADH <sup>+</sup> $\rightarrow$ FAD + H <sup>+</sup>
Q.206	pBr 322 have antibiotic resistance gene for	
<b>L</b>	A) Ampicillin and aspirin	C) Ampicillin and Tetracycline
	B) Streptomycin and metronidazole	D) Penicillin and metronidazole
		V Y
Q.207	Cystic Fibrosis affects which one of the followin	
	<ul><li>A) Epithelial cells</li><li>B) Endothelial cells</li></ul>	C) Plasma cells D) Blood cells
		D) Blood Cells
Q.208	The enzymes which act as molecular scissors in	recombinant DNA technology is
	A) Exonucleoses	B) Endonucleoses
	C) Polymerases	D) Reverse transcriptases
0.000		(
Q.209	Which of the following is the correct sequence of the following is the correct sequence of the following of states of the following of the following of states of the following of states of the following of	
	A) Heating $\rightarrow$ Cooling $\rightarrow$ Add Primer $\rightarrow$ Copying of stra	
	B) Heating $\rightarrow$ Add Primer $\rightarrow$ Cooling $\rightarrow$ Copying of stra C) Add Primer $\rightarrow$ Heating $\rightarrow$ Cooling $\rightarrow$ Copying of stra	
	D) Cooling $\rightarrow$ Add Primer $\rightarrow$ Heating $\rightarrow$ Copying of stra	
Q.210		gether, the result is which one of the following?
	A) Complementary DNA	B) Mutated DNA
	C) Recombinant DNA	D) Cloned DNA
Q.211	Individual successions are known as	
Y.211	A) Primary successions	C) Seres
	B) Secondary successions	D) Xeroses
Q.212		outional unit within which a species is restrained
	by the limitations of its physical structure and p	
	A) Niche	B) Biome
	C) Ecosystem	D) Habitat

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Q.213 All herbivores belong to which trophic level in the food chain? A) T1 B) T2
C) T3 D) T4

Q.214 How many food chains are present in following food web?



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# UNIVERSITY OF HEALTH SCIENCES, LAHORE Entrance Test – 2014

For admission to Medical / Dental Institutions of the Punjab ANSWER KEY

The answer key to the questions of Entrance Test 2014 is being released. Candidates can calculate their scores with the help of carbon copy of their response forms. <u>Each</u> <u>correct answer carries 05 marks whereas one mark will be deducted from the total</u> <u>score for each wrong answer. Unattempted question carries zero marks.</u> Complaints/ queries will be dealt only after the declaration of official result of the Entrance Test by the University. No request in this regard will be entertained before that.

		1
Q.No.	Ans	
ID	D	
1	А	
2	В	
3	В	
4	C	
5	A	
6	B	
7	В	
8	В	
9	D	
10	В	
11	D	
12	С	
13	Α	
14	С	
15	D	
16	D	
17	C	
18	B	
19	С	
20	A	
21	В	
22	A	
23	Α	
24	Α	
25	C	
26	D	
27	С	
28	С	
29	A	
30	A	
31	A	
32	D	
33	C	
34	С	
35	А	
36	D	
37	С	
38	С	
39	С	
40	В	
41	C	
42	B	
43	C	
43	C	
45	D	

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Q.No.	Ans		(	
46	D			
47	Α			
48	С			
49	С			
50	Α			
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53	С			
54	В			
55	В			
56	Α			
57	D			
58	В			
59	С			
60	В			
61	В			
62	В			
63	Α			
64	В			
65	С			
66	Α			
67 💊	Α			
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69	В			
70	D			
71	С			
72	Α			
73	A			
74	B			
75	D			
76	D			
77	B			
78 79	B			
	A B			
80 81	C			
82	B			
83	B			
<u>83</u>	D			
85	D			
86	A			
87	B			
	C			
88	C A			
	C A D			

	rd will b	
Q.No.	Ans	
92	B	
93	В	
94	С	
95	D	
96	D	
97	В	
98	С	
99	С	
100	A	
101	D	
102	С	
103	В	
104	В	
105	В	
106	С	
107	С	
108	A	1914 - S.
109	В	
110	С	
111	Α	N.
112	С	
113	Α	
114	С	
115	В	
116	А	
117	Α	
118	С	
119	В	
120	С	
121	А	
122	Α	
123	С	
124	С	
125	С	
126	Α	
127	В	
128	В	
129	В	
130	В	
131	B	
132	A	
133	C	
134	B	
135	D	
136	A	
137	B	

Q.No.	Ans	
138	В	
139	С	
140	С	
141	С	
142	С	
143	С	
144	C C	
145	А	
146	В	
147	Α	
148	В	
149	С	
150	В	
151	В	
152	D	
153	С	
154	С	
155	C C	
156	В	
157	D	
158	Α	
159	С	
160	В	
161	В	
162	В	
163	В	
164	В	
165	D	
166	D	
167	В	
168	В	
169	А	
170	D	
171	С	
172	В	
173	А	
174	Α	
175	D	
176	В	
177	A	
178	В	
179	B	
180	D	
181	C	
182	C	

183

D

Q.No.	Ans
184	С
185	В
186	С
187	Α
188	D
189	D
190	Α
191	В
192	D
193	В
194	С
195	А
196	В
197	D
198	В
199	С
200	D
201	C
202	С
203	А
204	А
205	В
206	С
207	А
208	В
209	А
210	С
211	С
212	А
213	В
214	D
215	В
216	А
217	В
218	А
219	А
220	D

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