### University of Health Sciences, Lahore

Total MCQs: 200



Max. Marks: 200

#### **MDCAT - 2019** Time Allowed: 150 Minutes

Inst	ruct	ion	5:

- Read the instructions and the MCQ Response Form carefully.
- 2. Choose the Single Best Answer for each question.
- 3. Candidates are strictly prohibited from giving any identification marks except Roll No. & Signature in the specified columns only.

FII	T	Y	)	TIF	1	PA	PF	R	ID	IN	THE	RE	SP	Ol	NSE	F(	OR	M
				$\mathbf{u}$					11	TIA				<u> </u>				

her 2. The For figs 3. Fail eve	The Question paper ID of each candidate is printed on the first page of his/ her Question Paper Booklet.  The candidates are only required to fill the correct circle in the Response Form against the first row of circle marked as ID as indicated in the figure.  Failure to fill the ID properly as per the instruction shall lead to incorrect evaluation of the Response Form for which the University shall not be responsible.					
		BIOLOGY				
Q.1	Sara is a chemistry student wateric acid in the laboratory.	who is carrying out an experiment between an alcohol and The product formed at the end of the experiment will be:				
	A) Glycogen and water molecule     B) Glucose and oxygen	C) An ester and water molecule D) Glycerol and Sulfuric acid				
Q.2	The finger like infoldings wh called:	ich are formed by inner membrane of mitochondria are				
	A) Ribosomes B) Matrix	C) Porin D) Cristae				
Q.3	The main neurotransmitter for nervous system.	or synapses is which lie outside the central				
	A) Acetylcholine B) Acetaldehyde	C) Choline D) Phosphatidylcholine				
Q.4	The structure present in a eu	ıkaryotic cell but absent in prokaryotic cells is				
	A) DNA B) Ribosomes	C) Cell surface membrane D) Nucleus				
Q.5	If water h <mark>as</mark> high latent heat helpful to plants and animals	of vapourisation, how this property of water could be s?				
	A) With the release of large amount of wamount of heat loss can take place.     B) With the release of small amount of wamount of heat loss can take place.	vater vapours, a small C) It will keep their temperature very high. vater vapours, a great D) No cooling effect with the release of even large amount of water vapours.				

Paper ID: B

Page 3 of 24

	Which cell organelle is	Paper ID : B
	Which cell organelle is responsible for c  A) Chloroplast B) Golgi be at	ell secretion?
Q.7	osigi body	C) Ribosome
Q. /	Now-a-days every new horn and	D) Mitochondrion
	for polio to make a child	shots of vaccine for pollo. It contains immune against this disease.
	A) Antibiotics B) Antibodies	C) Antigens
Q.8	Change in frequency	D) Anticon
	Change in frequency of alleles that occur  A) Genetic drift	rs by chance is called as:
200.000	B) Mutation	C) Migration D) Natural selection
Q.9	Lipids contain double amount of energy carbohydrates due to the presence of:	as compared to the same amount of
	A) Higher proportion of C-H bonds B) Higher proportion of C-O bonds	C) Higher proportion of Oxygen D) Lower proportion of C-H bonds
Q.10	The phase of mitosis in which sister chro	matide move towards ennesite poles:
	A) Anaphase	
٥.,	B) Metaphase	C) Prophase D) Telophase
Q.11	Starch is present in tubers, fruits and gra animals have a substance stored in liver a	ains but absent in animal cells, instead and muscles known as:
	A) galactose B) glucagon	C) glycogen D) glucose
Q.12	Thin filaments of muscles contain	chains of actin molecules.
	A) Two B) One	C) Three
Q.13	The reflex action is the phenomena which	D) Four only involves:
	A) receptors and effectors     B) receptors, effectors and spinal cord	C) brain, receptors, spinal cord D) receptors, neurons, brain
Q.14	Complementary DNA molecule is	
	A) DNA from mRNA B) an artificial DNA	C) single stranded DNA
0.15		D) a small segment of chromosomal DNA
Q.15	What is common in both Competitive and	Non- Competitive Inhibition ?
	A) Feedback Inhibition B) Irreversible Inhibition	C) Non- Reversible Inhibition D) Reversible Inhibition
Q.16	Meselson and Stahl transferred few bacte replicating their DNA. What would be the	ria grown in $N^{15}$ medium to $N^{14}$ medium for result after two rounds of replication?
	A) 100% heavy duplex B) 100% hybrid duplex	C) 50% hybrid duplex and 50% heavy duplex D) 50% hybrid duplex and 50% light duplex
Q.17	In an action potential, the permeability of	sodium ions in the neurons increases due to:
	A) Repolarization     B) Sodium ions forming an ionic bonding	C) The opening of sodium channels/gates D) The action of the acetylcholinesterase enzyme
Q.18	In which situation, Genes are not assorted chromosome?	independently during Meiosis in a
	A) When genes are linked and their loci are close to each	C) When there are too many Genes on a chromosome.
	other.  B) When some genes have mutated on the chromosome.	D) When genes are not linked and their loci are far apart.
Paper I	D : B	Page 4 of 24

In genetics, the term locus refers to the of the gene on the chromosome. 0.28

A) Position B) Frequency C) Copy

D) Inversion

Glycolysis takes place in the Q.29

> A) Nucleus B) Mitochondria

C) Golgi complex

D) Cytoplasm

Q.30	If a carrier haemophilic female (X <sup>H</sup> X <sup>h</sup> ) is will be the ratio of presence of haemophil given condition.	married to a haemophilic male ( $X^hY$ ). What in the children. Select best answer from
	$X^{11}X^h \times X^hY$	- Nic female 25%, 25% norm
	A) 100% all females and males will be haempohilic     B) females have 50% chances of getting haemophilia and males will be 100 % haemophilic	C) carrier female 25%, haemophilic female 25%, 25% norm male and 25% haemophilic male. D) females and males both have 50% chances of getting haemophilia
Q.31	A disease caused by gradual breakdown of	the thin walls of alveoli is
	A) Tuberculosis B) Asthma	C) Emphysema D) Bronchitis
Q.32	Substances responsible for increasing the	set point of the hypothalamus are called:
3.52 0.00	A) Androgens B) Pyrogens	C) Pepsin D) Prions
Q.33	DNA polymerase enzyme for PCP is isolate	ed from bacteria Thermus aquaticus because
4.55	A) It can work at high speed B) It can withstand high denaturation temperature.	C) It can withstand low denaturation temperature. D) It can be used again and again.
Q.34	Which of the following photosystem is inve	
	A) PS II B) PS I	C) PS I and PS II D) PS III
Q.35	Which hormonal pair would maintain the eimplantation of embryo?	endometrium and make it receptive for
	A) Luteinising Hormone and Progesterone B) Estrogen and Progesterone	C) Estrogen and Follicle Stimulating Hormone D) Luteinising Hormone and Follicle Stimulating Hormone
Q.36	The thick filaments in a myofibril of muscl	es are made of·
	A) Myoglobin B) Myosin	C) Actin D) Haemoglobin
Q.37	If sequence in DNA is CCCTAGAG, then whafter transcription?	at would be the sequence in messenger RNA
	A) GGGAUCUC B) GGGATCTC	C) GGAAUCUC D) GGGGTCTC
Q.38	In chemiosmosis the proton (H <sup>+</sup> ) pumps m	noves from
	A) Stroma to Lumen B) Cytoplasm to Stroma	C) Lumen to Stroma D) Stroma to cytoplasm
Q.39	Microtubule subunits (for spindle fibers) a	re synthesized in phase.
	A) G <sub>1</sub> B) M	C) G <sub>2</sub> D) S
Q.40	How many molecules of ATP would be utili molecule during glycolysis?	zed for phosphorylation of one glucose
	A) Three B) Two	C) Four D) One
Q.41	The function of calcium ions in muscle con	straction is to:
	A) Polarize visible light     B) Aid in the transmission of nerve impulse	C) Bind to troponin molecule and cause them to move D) Bind to tropomyosin molecule and cause them to form cross bridges
Paper	ID : B	Page 6 of 24

Q.42	According to the theory of natural selection	on, organisms produce:
	A) Offspring according to the resources available B) Less offspring than supported	C) Offspring to create resources D) More offspring than supported
Q.43	A person was married to his cousin and b Among their four kids, what will be propo	oth are heterozygous for sickle cell anemia. rtion of affected homozygotes?
	A) 75% B) 50%	C) 100% D) 25%
Q.44	The major function of Basophils is to:	
	A) Destroy small particles by phagocytosis     B) Release heparin to prevent blood clotting	C) Transport oxygen D) Inactivate inflammation producing substances
Q.45	Which enzyme is administered to the pati Immunodeficiency Disease (SCID) ?	ents of Severe Combined
	A) Adenosine Deaminase (ADA) B) Pancreatic Enzyme	C) β-galactosidase D) β-lactamase
Q.46	Given below is the diagram of nephron wi	thout vascular supply.
	A B C	
	What is name of Part C?	J'
	A) Collecting tubule B) Proximal tubule	C) Distal tubule D) Loope of Henle
Q.47	Inside ovary, primary oocyte divides throcells, secondary oocyte and:	ugh first meiotic division forming two haploid
	A) Ovum B) Oogonium	C) Follicle cell D) Polar body
Q.48	Transgenic mice have been used to produ	ice:
	A) Extra hair B) A growth hormone	C) Protein rich milk D) Protein rich meat
Q.49	In plants, which sugar is transported fro	m source to sink through sieve tubes?
	A) Glucose B) Sucrose	C) Fructose D) Starch
Q.50	Which of the following hormone stimula	tes the ovulation from the follicle into oviduct?
	A) Estrogen B) Progesterone	C) Luteinizing hormone D) Follicle stimulating hormone
Q.51	Which one is an example of a Nucleotide	?
	A) Adenosine B) NAD	C) ATP D) Guanine

Paper ID : B

Page 7 of 24

Q.52	Four plants are present in different environment warm climate with continuous rainfall, plan present in warm climate with little breeze whigh wind speed. Which one of the above plants are present in warm climate with little breeze whigh wind speed.	hile plant D is present rate of transpiration?  ants will have highest rate of transpiration?
	A) Plant B	C) Plant A D) Plant C
	B) Plant D	eubunits known as
Q.53	Capsid, the protective coat of a virus is mad capsomeres.	e up or
	A) DNA B) RNA	C) Protein D) Lipid
Q.54	If stimulation is above, impulses along the sensory neuron.	travel to the brain
	A) Recovery Period B) Resting Potential	C) Action Potential D) Threshold
0.55	B) Resting Potential  The covalent bond or bridge between two m	onosaccharides to form a disaccharide is
Q.55	called a:	
	A) Hydroxyl bond	C) Carboxyl bond D) Glycosidic bond
	The structure of a fibrous protein comprises	of polypeptide chains in the form of:
Q.56	A) Cluster	C) Long strands or fibrils D) Flat uncoiled chains
	B) Spherical or curled up hall	
Q.57	Taxonomy includes the arrangement of orgation following represents the correct hierarchy of	Constitution Constitution and the constitution of the constitution
	A) Species, genus, family, order, class, phylum B) Order, family, class, phylum, kingdom	C) Species, genus, family, class, order, phylum D) Species, genus, order, family, class, phylum
Q.58	The Plasmid pBR322 has antibiotic resistant	nce genes for:
	A) Streptomycin B) Ampicillin and Tetracycline	C) Tetracycline and Doxycycline D) Doxycycline and Ampicillin
Q.59	Which of the following blood vessels contain	n semilunar valves?
Q.D.D	A) Arteries B) Capillaries	C) Veins D) Arterioles
Q.60	The main nitrogenous excretory product of	humans is:
	A) Ammonia B) Urea	C) Ammonium D) Uric acid
Q.61	Water and Minerals move down their conce to cells of cortex, endodermis, pericycle and known as the	ntration gradient through plasmodesmata, d then to sap in the xylem cells. This is also
	A) Vacuolar pathway B) Apoplastic pathway	C) Symplastic Pathway D) Mineral absorption Pathway
Q.62	If 15 µm size object is observed under light objective, its magnified image size will be:	
	A) 750μm B) 500μm	C) 50µm D) 250µm

# Q.63 A person got an infection, he became ill but then he survived. What do you think which type of immunity he would have developed?

- A) Active immunity
- B) Artificially induced active immunity
- C) Passive immunity
- D) Naturally induced active immunity

# Q.64 The nitrogen containing bases in nucleotide are of two types; Purines and Pyrimidines; the purines bases are:

A) Adenine, Guanine and Cytosine

C) Adenine and Guanine

B) Guanine and Cytosine

D) Adenine and Thymine

## Q.65 The process in which a complementary copy of the code from a gene is produced by RNA Polymerase in the nucleus:

A) Transcription

C) Proof reading

B) Translation

D) DNA Replication

### Q.66 Among followings which cellular organelle contains circular DNA similar to those found in bacteria?

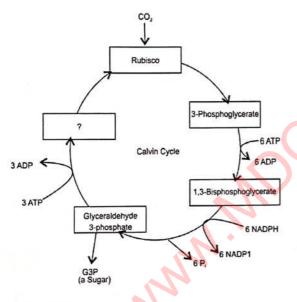
A) Lysosome

C) Chloroplast

B) Nucleus

D) Ribosome

## Q.67 The following flowchart depicts the steps of the Calvin Cycle. Which option according to you fits in as the correct answer of the missing step?



- A) Pyruvate
- B) Hydrogenase

- C) Ribulose bisphosphate
- D) Oxaloaccetate

### Q.68 Large lymph vessels ultimately form larger lymph duct, which drains its lymph into:

- A) Carotid and Aorta
- B) Subclavian Artery

- C) Vena Cava and Aorta
- D) Subclavian Vein

#### Q.69 Xerophytes have small thick leaves to:

- A) Help them float on water
- B) Limit water loss by increasing the surface area
- C) Help them survive in salty environment
- D) Limit water loss by reducing the surface area

#### Q.70 Passive processes for the movement of molecules across cell surface membrane are:

- A) osmosis and phagocytosis
- B) pinocytosis and facilitated difusion

- C) facilitated diffusion and osmosis
- D) diffusion and exocytosis

Q.71	During the G2 phase:	movement and mitor
	A) Chromosome number is duplicated	C) Energy is stored for Chromosome movement and mitotic specific proteins (Tubulin) are produced D) Specific enzymes are synthesized and DNA base units are
	B) The chromosomes are left with only one chromatid	accumulated
Q.72	During inspiration the space inside the o	hest cavity is increased due to:
	A) The relaxation of the muscles of the diaphragm	C) Increased protein of the muscles of the diaphragm
Q.73	A student of chemical engineering mista was a potent inhibitor of certain enzyme where Dr. injected intravenously substra A. His life was saved from serious damag compound A was a inhibitor.	
	A) Non-competitive reversible B) Irreversible	C) Temperature sensitive D) Competitive reversible
Q.74	Which is an example of a Disaccharide:	
	A) Starch B) Lactose	C) Fructose D) Glycogen
Q.75	In glycine R is	
	A) ethane B) fatty acid	C) hydrogen D) methane
Q.76	Sequence of amino acids in a polypeptid sequence of nucleotides on mRNA for th human protein is 993 nucleotide includi acids would be incorporated in the polyp	e chain of protein molecule corresponds to the lat protein. If reading frame of mRNA for a mg a stop codon at the end, how many amino peptide chain?
	A) 93 B) 330	C) 331 D) 993
<b>Q.</b> 77	Blood group AB is an example of	
578	A) Complete dominance B) Recessive alleles	C) Co-dominance D) Incomplete dominance
Q.78	As a result of replication, parental DNA each strand of all the daughter molecule is called as:	would become completely dispersed and that es would be a mixture of old and new DNA. This
	A) Dispersive idea B) Conservative idea	C) Disruptive idea D) Semi-conservative idea
Q.79	Smooth endoplasmic reticulum is respon	nsible for the metabolism of :
	A) Nucleic acids B) Proteins	C) Carbohydrates D) Lipids
Q.80	Among followings, enzyme i virus (HIV).	s naturally found in human immunodeficiency
	A) Ligase B) Reverse transcriptase	C) RNA polymerase D) DNA polymerase
	CH	EMISTRY
Q.81	The average atomic mass of Boron is 10 respectively. What is the percentage of i	.8. It has two isotopes of masses 10 and 11 isotope with the average mass of 10?
	A) 20%	C) 80% D) 50%
Paper	B) 60% ID: B	Page 10 of 2

Q.82	Which one the following compound is addi-					
	A) Polyvinyl chloride B) Nylon	C) Carbohydrate D) Polyester				
Q,83	Which of the following compounds will give a secondary alcohol after reaction with NaBH <sub>4</sub> ?					
	A) CH <sub>3</sub> COCH <sub>3</sub> B) CH <sub>3</sub> COOCH <sub>3</sub>	C) CH3CH2CHO D) CH3CH2COOH				
Q.84	Select the reagent X from the following ch	olces for this conversion;				
	$CH_3CH(OH)CH(CH_3)_2 \xrightarrow{Reagent X} CH_3COCH(OH)CH_3CH(OH)CH(OH)CH(OH)CH_3CH(OH)CH_3CH(OH)$	CH <sub>3</sub> ) <sub>2</sub>				
	A) Acidified Potassium hydroxide     B) Acidified Potassium dichromate (VI)	C) Acidified Phosphoric acid D) Acidified Oxalic acid				
Q.85	The pH of 10 <sup>-2</sup> M aqueous solution of sodiu	ım hydroxide is				
	A) 14 B) 10	C) 12 D) 13				
Q.86	Ketones can be made by oxidation of					
	A) Aldehydes B) Primary Alcohols	C) Secondary Alcohols D) Tertiary Alcohols				
Q.87	In the reaction sequence:					
	$H_3C - CH_2 - CH_2 - Br + Alc KOH - C - C - CH_2 - D$					
	Product D will be					
	A) 1-propanol B) Propanoic acid	C) 2-propanol D) Mixture of methanol and ethanol				
Q.88	Copper is a typical transition metal. Its atomic number is 29. In which oxidation state does it have partially filled orbital in d-subshell?					
	A) Cu	C) Cu				
= = 197724	B) Cu <sup>+</sup>	D) Cu <sup>2+</sup>				
Q.89	The decomposition of phosphorus pentach place by the following mechanism:	loride in the presence of moisture takes				
	$PCl_{5(s)} + H_{2}O(l) \rightarrow POCl_{3(l)} + 2HCl$	(aq) (Slow Step)				
	$POCl_{3 (l)} + 3H_{2}O_{(l)} \rightarrow H_{3}PO_{4 (l)} + 3HCl_{3}$	(aq) (Fast Step)				
	$PCl_{5 (6)} + 4H_{2}O_{(1)} \rightarrow H_{3}PO_{4 (1)} + 5H_{3}O_{4 (1)} + 0$	l (aq)				
	The rate equation for this reaction will be					
	A) Rate = $k [POCl_3][H_2O]^3$ B) Rate = $k [PCl_5][H_2O]$	C) Rate = $k [PCl_5][H_2O]^4$ D) Rate = $[PCl_5][H_2O]$				
Q.96	Which type of reaction takes place when a of NaCN and an acid?	carbonyl compound is treated with a mixture				
	A) Electrophilic addition reaction     B) Substitution reaction	C) Nucleophilic addition reaction D) Displacement reaction				
Paper	ID: B	Page 11 of 24				

Q.91	An inter molecular force of attraction $X$ is a molecular forces , it stabilizes $\alpha$ -helix and $\beta$ helical structure of DNA is also stabilized by	relatively stronger than the other -pleated sheets of proteins. The y this force of attraction. Identi	er inter e double fy X.			
	A) van der Waal's Forces B) Hydrogen bonding	C) Ionic interactions D) Dipole dipole attraction				
Q.92	Which of the following molecule shows cis-	trans isomers ?				
	A) C <sub>2</sub> H <sub>4</sub> B) C <sub>2</sub> H <sub>2</sub> Cl <sub>4</sub>	C) C <sub>2</sub> H <sub>2</sub> Br <sub>2</sub> D) C <sub>2</sub> HCl <sub>3</sub>				
Q.93	Modern periodic table is arranged in ascend	ding order of ?				
	A) Nucleon number B) Atomic mass	C) Proton number D) Mass number				
Q.94	Disposable cups are made of a polymer poly	styrene. Polystyrene is:				
	A) A polyamide B) A condensation polymer	C) An addition polymer D) A polyester				
Q.95	Which of the following element is not prese	nt in halogens?				
	A) I B) Cl	C) Fe D) F				
Q.96	Chlorofluorocarbons (CFCs) are important compounds which are used as refrigerants but these are also responsible for Ozone layer depletion. If a Chlorofluorocarbon CFCl3 is present in stratosphere, which of it's reaction intermediates are actually responsible for the breakdown of Ozone molecule?					
A	A) CFCl <sub>2</sub> ' and Cl'	C) CFCl <sub>2</sub> · and ClO· D) CFCl <sub>2</sub> · and CFCl <sub>3</sub>				
<b>Q.97</b>	Which of the equations shows the same "twice" the enthaply change of neutralization as the following equation					
	HCl + NaOH → NaCl + H <sub>2</sub> O					
	A) MgCO <sub>3</sub> + 2HCl $\rightarrow$ MgCl <sub>2</sub> + CO <sub>2</sub> + H <sub>2</sub> O B) KOH + HCl $\rightarrow$ KCl + H <sub>2</sub> O	C) $NH_4Cl + NaOH \rightarrow NaCl + H_2O + NH_3$ D) $H_2SO_4 + Mg(OH)_2 \rightarrow MgSO_4 + 2H_2O$	a			
Q.98	Which two elements are isotopes?					
	16X and 16Y A)	$^{18}_{9}X$ and $^{20}_{10}Y$				
	$^{14}_{8}X$ and $^{15}_{8}Y$	$^{12}_{6}X$ and $^{12}_{7}Y$				
Q.99	Carboxylic acids can be reduced into corre reagent can be used for this purpose?	sponding alcohols. Wh <mark>i</mark> ch of the	following			
	A) KMnO <sub>4</sub> B) LiAlH <sub>4</sub>	C) K <sub>2</sub> Cr <sub>2</sub> O <sub>4</sub> D) H <sub>2</sub> SO <sub>4</sub>				
Q.100	Which enthalpy change is relevant in the f	ollowing process				
	$Na_{(s)} \rightarrow Na_{(g)}$ $\Delta H = +$					
	A) Enthalpy of atomization B) Enthalpy of fusion	C) Enthalpy of vaporization D) Enthalpy of formation				
Q.101	Ionization energy decreases down the grou	ip from top to bottom due to:				
	A) Increase in atomic mass     B) Increase in shielding effect of the intervening electrons	C) Increase in proton number D) Decrease in atomic size	Page 12 of 24			
Paper	· ID : B		- 493			

Q.102	The $K_a$ values of HCl, CH <sub>3</sub> COOH, HF and H <sub>2</sub> SO <sub>4</sub> are $10^{+7}$ , $1.85 \times 10^{-5}$ , $6.7 \times 10^{-5}$ and $10^{+2}$ respectively. The decreasing order of acidic strength is:				
	A) CH <sub>3</sub> COOH > HF > H <sub>2</sub> SO <sub>4</sub> > HCl B) HCl > H <sub>2</sub> SO <sub>4</sub> > HF > CH <sub>3</sub> COOH	C) HCl > CH <sub>3</sub> COOH > HF > H <sub>2</sub> SO <sub>4</sub> D) HCl > HF > H <sub>2</sub> SO <sub>4</sub> > CH <sub>3</sub> COOH			
Q.103	In contact process, to which substance add it to sulphuric acid?	equate quantities of water is added to convert			
	A) H <sub>2</sub> S <sub>2</sub> O <sub>7</sub> B) HSO <sub>4</sub> .	C) SO <sub>2</sub> D) SO <sub>3</sub>			
0.104	For an equilibrium reaction;	<i>D</i> ) 303			
	$2SO_{2(g)} + O_{2(g)} = 2SO_{3(g)}$				
	the forward reaction is exothermic, increase position towards left because,	se in temperature shifts the equilibrium			
	A) the concentrations of $SO_2$ and $O_2$ increase and concentration of $SO_3$ stays same as the temperature increases B) the concentrations of $SO_3$ , $SO_2$ and $O_2$ increase as the	C) the concentrations of SO <sub>2</sub> and O <sub>2</sub> decrease and concentration of SO <sub>3</sub> increases as the temperature increases D) the concentrations of SO <sub>2</sub> and O <sub>2</sub> increase and			
0.105	temperature increases	concentration of SO <sub>3</sub> decreases as the temperature increases			
Q.105	men one of the following molecules has a				
	A) CH <sub>4</sub> B) C <sub>2</sub> H <sub>4</sub>	C) CO <sub>2</sub> D) C <sub>2</sub> H <sub>2</sub>			
Q.106	During stoichiometric calculations, which	of the following laws must be followed?			
	A) Dalton's law B) Avogadro's law	C) Law of conservation of mass D) Law of conservation of energy			
Q.107	Nitriles (RCN) on hydrolysis in the presence	e of a mineral acid yield:			
	A) Ethers B) Carboxylic acids	C) Aldehydes D) Alcohols			
Q.108	Alkenes undergo:				
	A) Electrophilic Addition B) Electrophilic substitution	C) Nucleophilic subsitution D) Nucleophilic addition			
Q.109	Treatment of ethene with cold sulphuric ac yields:	id followed by reaction with boiling water			
	A) Ethane B) Ethanal	C) Ethanol D) Ethyne			
Q.110	How many moles of calcium carbonate are of Ca = 40, $A_r$ of C = 12, $A_r$ of O = 16)	present in 1.75 kg of calcium carbonate? ( $A_r$			
	A) 1.75 mol B) 1750 mol	C) 0.0175 mol D) 17.5 mol			
Q.111	Which balanced chemical equation show the formation of ethanoyl chloride using thionyl chloride?				
	A) HCOOH + SOCl <sub>2</sub> $\rightarrow$ HCOCl + SO <sub>2</sub> + HCl B) CH <sub>3</sub> CH <sub>2</sub> COOH + 2SOCl $\rightarrow$ CH <sub>3</sub> CH <sub>2</sub> COCl + SO <sub>2</sub> + HCl	C) $CH_3CH_2COOH + 2SOCl \rightarrow CH_3CH_2COCl + SO_3 + HCl$ D) $CH_3COOH + SOCl_2 \rightarrow CH_3COCl + SO_2 + HCl$			
Q.112	All the collisions between the particles of g "Elastic Collisions"?	ases are elastic in nature. What is meant by			
	A) No change in the kinetic energy     B) The velocity of the molecules changes	C) No change in potential energy during the collisions D) No change in mass during the collisions			
Paper l	ID:B	Page 13 of 24			

Q.113	······································	f the following reagent is required for preparation of acyl chloride (CH <sub>3</sub> COCl) anoic acid?
	A) PCl5 B) POCl <sub>3</sub>	CH3 CKOSH -+ CH3 COLL C) CH3CI

Q.114 Identification tests for functional groups of organic compounds are associated with specific observations. Tollen's reagent is ammonical silver nitrate solution, which is used for the identification of a functional group X with an observation O. Identify X and O.

```
A) X=Aldehyde O= Silver mirror
B) X= Ketone O= grey precipitate
```

C) X = Ketone O = Silver mirror
D) X = Aldehyde O = red precipitate

Q.115 Free Nitrogen and oxygen are present in atmosphere but they do not react with each other under normal conditions, because:

```
A) Nitrogen requires a catalyst.

B) Ovegen is very inactive.
```

C) Oxygen is found in less concentration.

B) Oxygen is very inactive.

D) Nitrogen is highly inactive gas.

Q.116 CFC's are organic compounds, which are derivatives of saturated hydrocarbons. They have high bond dissociation values therefore they are inert and non toxic for the living organisms.

The word CFC's stands for:

A) Chlorofluorocarbons
B) Carboflourochlorines

C) Chlorofluorcarbides

D) Chlorofluoridecarbons

Q.117 According to Watson and Crick's model of DNA, the DNA molecule consists of a double helix. What type of forces are responsible to keep two strands of DNA together?

A) van der Waal's forces B) Ionic bonding

C) Hydrogen bonding

D) Dipole-induces dipole forces

Q.118 Nitrogen has the atomic mass of 7.

Which of the following electronic configurations is of a Nitrogen atom in ground state?

A) 
$$1s^2, 2s^2, 2p_x^1, 2p_y^1, 2p_z^1$$
  
B)  $1s^2, 2s^2, 2p_x^2, 2p_z^1$ 

C)  $1s^2, 2s^2, 2p_x^2, 2p_y^1$ D)  $1s^2, 2s^2, 2p_y^2, 2p_z^1$ 

Q.119 Which of the following substances exhibits hydrogen bonding?

A) H<sub>2</sub>S B) SiH<sub>4</sub> C) NH<sub>3</sub> D) HI

Q.120 Aqueous solutions of Iodine and Sodium hydroxide were mixed in a round bottom flask at 70°C.Following chemical reaction was carried out.

3I2 + 6NaOH → NaIO3 + NaI +H2O

This reaction is termed as

A) Redox reaction
 B) Precipitation reaction

C) Substitution reaction

D) Free radical reaction

Q.121 Which of the following bond is responsible for joining the amino acids in proteins?

A) Peptide Bond B) Ionic Bond C) Metallic Bond D) Di sulfide bond

0.122 Which of the following is the electronic configuration of Cr?

A) [Ar] 3d<sup>5</sup> 4s<sup>2</sup> B) [Ar] 3d<sup>5</sup> 4s<sup>1</sup> C) [Ar] 3d<sup>4</sup> 4s<sup>2</sup> D) [Ar] 3d<sup>6</sup> 4s<sup>0</sup>

Paper ID : B

Page 14 of 24

#### 0.123 The number of moles of water in 1Kg ice are

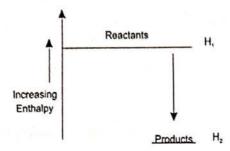
A) 50 moles B) 1000 moles C) 100 moles D) 55.5 moles

#### Q.124 Which of the following sets constitutes of all the molecules and ions of non-planar geometry?

A) PH4+, NH3, SO3, Benzene B) CH4, NH4<sup>+</sup>, MnO4<sup>-</sup>, NF3

C) CH = CH, H2O, BeCl2, H2S D) SO2, C2H4, BF3, NO3

### Q.125 The given diagram shows the enthalpy changes during a chemical reaction.



#### This diagram represents:

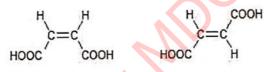
A) An endothermic reaction B) An exothermic reaction

C) An isothermic process D) A non-spontaneous process

#### Q.126 What is the measure of activation energy in an endothermic reaction?

- that of forward reaction.
- B) The energy of activation of backward reaction is more than that of forward reaction.
- A) The energy of activation of backward reaction is less than C) The energy of activation of forward reaction is less than that of backward reaction. The energy of activation of forward-backward reaction is
- Q.127 Maleic acid and Fumaric acid, both have chemical formula C4H4O4. The structure of these acids is shown below.

same.



Maleic acid

Fumaric acid

#### Maleic acid and Fumaric acid are:

- A) Cis-trans isomers
- B) Structural isomers

- C) Metamers
- D) Position isomers
- Q.128 Amino acids are bi-functional compounds, with a general formula NH2CH(R)CO2H. A tripeptide is formed between Alanine (ala), Glycine (gly) and lysine (lys). There is no repetition of amino acid in this tri-peptide, suggest how many tri-peptides are possible?

A) 9 B) 6 D) 12

#### Q.129 If the energy of activation of a chemical reaction is very low, the rate of that chemical reaction is observed to be very high because?

- A) Concentration of the reactants becomes irrelevant
- C) Number of efficient or fruitful collisions increase
- D) Molecules of the reactants move slowly B) Reaction proceeds without any transition state
- Q.130 which of following compounds is responsible for the depletion of ozone layer?

A) Choroflorocarbons

B) Carbon tetrachloride

C) Methane

D) Hydroflorocarbons

Paper ID: B

Page 15 of 24

Q.131 Which product is obtained by the hydrolysis of 1- chlorobutane with the aqueous sodium hydroxide?

A) 1- butanal B) 1-butanol

C) 1- butene D) Butanone

Q.132 Oxidation number of particular element can be directly or indirectly inferred from its:

 A) Group number B) Atomic size

C) Atomic mass D) Physical state

Q.133 Which of the following reactions is used for the production of alcohols on industrial scale?

 A) Hydrogenation of alkenes B) Hydration of alkenes

C) Hydrohalogenation of alkenes

D) Hydroxylation of alkenes

Solution contains 85.5 g of sucrose (C<sub>12</sub>H<sub>22</sub>O<sub>11</sub>) in 250 cm<sup>3</sup>. What is its molarity?

A) 1 M B) 0.5 M

C) 0.25 M

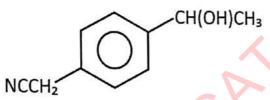
Q.135 Which derivative of benzene shows maximum reactivity in electrophilic substitution reactions?

A) Benzoic acid

C) Benzaldehyde D) Nitrobenzene

B) Methyl benzene

Q.136 The names of functional groups in the following compound X are;



A) Secondary alcohol, nitrile and phenol ring B) Secondary alcohol, amine and benzene ring

C) Secondary alcohol, nitrile and aryl ring D) Primary alcohol, nitrile and benzene ring

Q.137 In the second period of elements, although oxygen lies next to nitrogen yet its ionization first energy is lower than that of nitrogen because?

A) Oxygen is paramagnetic in character.

C) Oxygen has higher electron affinity.

B) Nuclear charge of oxygen is greater than nitrogen.

D) In oxygen, there exists repulsion between pair of electrons present in the same orbital of valence shell.

Q.138 The structure of Xenon trioxide is shown below,



With reference to the Valence shell electron pair repulsion theory, (VSEPR), the shape of XeO3 is;

A) Trigonal planar

C) Bent (or angular)

B) Tetrahedral

D) Trigonal pyramidal

Q.139 Which of the following will give a positive test with Tollen's reagent?

A) Tertiary Alcohols

C) Aldehydes

B) Carboxylic Acids

D) Ketones

Paper ID: B

Page 16 of 24

Q.140 
$$Mg^{2+} + 2e^{-} \rightarrow Mg$$

$$E^{\circ} = -2.37 \text{ V}$$

$$Zn^{2+} + 2e^- \rightarrow Zn$$

$$E^{\circ} = -0.76 \text{ V}$$

$$2H^+ + 2e^- \rightarrow H_2$$

$$E^{\circ} = 0.000 \text{ V}$$

$$E^{\circ} = + 0.34 \text{ V}$$

$$E^{\circ} = + 1.36 \text{ V}$$

$$Au^{3+} + 2e^- \rightarrow Au$$

$$E^{\circ} = + 1.50 \text{ V}$$

Keeping in view the values of standard reduction potential given above, which one of the following would you select as a feasible redox chemical reaction?

A) 
$$2Cl^2 + I_2 \rightarrow Cl_2 + 2I^2$$

B) 
$$Cu + Zn^{2+} \rightarrow Cu^{2+} + Zn$$

C) 
$$Mg + 2H^+ \rightarrow Mg^{2+} + H_2$$

D) 
$$2Au + 6H^+ \rightarrow 2Au^{3+} + 3H_2$$

#### PHYSICS

Q.141 The range of the projectile depends upon the velocity of the projection and the angle of the projection i.e 45°. For a fixed velocity, when the angle of projection is larger than 45°. Which of the following is correct?

- A) The height attained by the projectile will be more but the C) The height attained by the projectile will be less but the range is more.
- B) Both the height and the range attained by the projectile will be more.
- D) Both the height and the range attained by the projectile will be less.
- Q.142 The wavelength of the electromagnetic wave having frequency of 3 kHz will be?

A) 120 km B) 100 km

- C) 80 km
- D) 140 km
- Q.143 An automobile is moving forwards with uniform velocity due to the force exerted by its engine. If that force is double with the velocity remaining constant what happens to its total power?

A) It is squared B) It is halved

- It is doubled D) It does not change
- Q.144 Which of the following is statement shows that no work is done?
  - A) Pushing a car to start it moving B) Lifting the weights.

- (C) The moon orbiting the earth. D) Writing an essay on a page.
- Q.145 If two objects of equal masses 'm' are moving towards each other with the same speeds 'v' then what will be the total final momentum after elastic head-on collision?

A) mv kg m/s B) - mv kg/s

Q.146 In Double Slit experiment, the fringe spacing of the diffracted rays increases when:

A) the wavelength of the diffracted rays increases

C) the distance from mid points of the slits to the central point of the fringe on the screen increases D) the distance between the screen and the slits decreases

B) the distance between the slits increases

Q.147 What is the guark composition of a Proton?

A) Two up quarks and one down quark B) Two up quarks and one strange quark

C) One up quark and two strange quarks D) Two down quarks and one up quark

Paper ID: B

Page 17 of 24

Q.148	The sum of all forms of molecular energies termed as ?	(Kinetic and Potential) of a substance is
	A) Elastic energy B) Absolute energy	C) Internal energy D) Heat energy
Q.149	Molecules of a gas at constant pressure for energy X. Increasing temperature from 27° become:	a fixed amount of gas have average kinetic C to 327°C, average K.E. of molecules will
	A) 20X B) 300X	C) 200X D) 2X
Q.150	Kirchhoff's first law/rule corresponds to:	
	A) Law of conservation of energy     B) Law of conservation of momentum	C) Law of conservation of charge D) Law of conservation of mass
Q.151	Minimum energy required to eject an electronic	ron from metal surface is called:
	A) Stopping potential B) Electromotive force	C) Work function D) Threshold frequency
Q.152	If we change the magnetic flux linking a co field, the rate of change of this flux is:	il by rotating the coil in a constant magnetic
	A) Proportional to the emf produced in it B) Proportional to the material of the coil	C) Proportional to the resistance of the coil D) Proportional to the change in magnetic field
Q.153	The area under the extension-load graph of not been exceeded gives its:	an elastic material whose elastic limit has
	A) Stress B) Strain energy	C) Strain D) Young modulus
Q.154	What will be the expression for the observe the observer?	d frequency, if the source is moving towards
	$f = \left(\frac{v}{v - u_s}\right) f_o$ $f_o = \left(\frac{v}{v \pm u_s}\right) f$ B)	$f_o = \left(\frac{v}{v + u_s}\right) f$ C) $f_o = \left(\frac{v}{v - u_s}\right) f$ D)
Q.155	The direction of current through the load r	resistance of a full-wave rectification circuit:
	A) remains constant B) inverts for positive cycle	C) changes for every cycle D) inverts for negative cycle
Q.156	A negligible small current between input to because of:	erminals of the operational amplifier is
	A) High output resistance     B) Low output resistance	C) High input resistance D) Low input resistance
Q.157	Heavy nucleus of atoms go through fission	so that they can:
	A) absorb low amount of energy B) absorb high amount of energy	C) reduce their binding energy per nucleon D) increase their binding energy per nucleon
Q.158	1 4 mm Calculate the strain energy stored	m <sup>-1</sup> . It is stretched by a force to extension of in the wire.
Paper I	A) $4.9 \times 10^{-5} \text{ J}$ B) $4.9 \times 10^{-2} \text{ J}$ $D: B$ $F = \frac{5 \times 10^{4}}{1.4 \times 10^{-7}} = 3$	C) 4.9 J D) $4.9 \times 10^{-5}$ J $4.9 \times 10^{-5}$ J $4.9 \times 10^{-5}$ J $4.9 \times 10^{-5}$ Page 18 of 24 $4.9 \times 10^{-5}$ W = $4.9 \times 10^{-5}$

			Paper ID : B
Q.159	An object is moving along a circular process displacement if it moves 14m on this	path of radius 4m. What circular path?	
	A copper wire has length L and cross-sectional A. Its resistance is ength and halved the diameter of wire then what will be the resistance in the second property of the second proper	8 = 14 0 = 5 = 14 8 = 14	
Q.160	A copper wire has length L and cross length and halved the diameter of wi	-sectional A. Its resistan re then what will be the	resistance of this wire?
	A) 4R B) 3R		resistance of this wire? $R = \int \frac{L}{A} = \int \frac{L}{A} dx$ trength $R = 2 \frac{L}{A} + \frac{L}{A} dx$
Q.161	If a conductor of length 7m is placed	l in a magnetic field of st	trength $p = 2 \frac{2}{\sqrt{4}} \frac{1}{4}$
	0.3T carrying current 1A, parallel to this magnetic field?	the field. What will be the	he force acting on it due to  F = ILB
	A) 7 N B) 0 N		
Q.162	In relation $\lambda T_{1/2} = 0.693$ , which	quantity is represented b	by $\lambda$ ?
	A) decay constant B) half life		
Q.163	Work done due to centripetal force	for circular motion will	be:
	A) Reduced B) Zero	D) Half	
Q.164	from the point charge. What is the	alactric notontial at a III	IIII IIII LIIC Sumo P
	A) 4V B) 2V		$E = \frac{1}{\Lambda}  \Lambda = \frac{1}{4} \frac{1}{4}$ $\Lambda = \frac{1}{4} \frac{1}{4}$ $\Lambda = \frac{1}{4} \frac{1}{4}$
Q.165	The interefence pattern is observed between the centres of adjacent br	ed on a screen 200 cm a ight fringes is 2.00 mm.	way and the separation
	A) 2 pm B) 1 µm		$\frac{\lambda^2}{\times 10^2 \times 10^{-2}} = \frac{d}{m} = \frac{1}{2 \times 10^{-2}}$
Q.166	Calculate the energy of a photon o	f frequency $3.0 \times 10^{18}$ J	Hz. 200×10-20.5×10-7
	$(h = 6.63 \times 10^{-34})$ $E = 0$	(8 × 10 (3 × 18 (0)	2×10-7 } × 18
	A) $19.89 \times 10^{-16} \text{ J}$ B) $11.89 \times 10^{-16} \text{ J}$	C) $1.89 \times 10^{-16}$ J D) $19.89 \times 10^{-18}$ J	2x

A)  $19.89 \times 10^{-16}$  J B)  $11.89 \times 10^{-16}$  J Q.167 Path difference for the destructive interference can be written as:

A) 
$$\Delta s = n \lambda$$
  
B)  $\Delta s = (n + 1/3) \lambda / 2$ 

C) 
$$\Delta s = (2n + 1) \lambda / 2$$
  
D)  $\Delta s = 2n (\lambda)$ 

Q.168 Calculate the rate at which energy is transferred by 220 V mains supply which provides a current of 0.1 A to a LED?

$$P = \frac{U}{R} = \frac{48400}{6.1}$$

$$P = UI$$

22

Paper ID: B

220×6-1 Page 19 of 24

				Paper ID : ]
Q.169	An alternation voltage V (in volts) is repre	esented by the	equation:	
	$V = 300 \sin (100\pi t)$	v = vo3	$w = 2 \times f$ $100 \times = 2 \times f$ $f = 0$	
	What is the value of "f" for this voltage?		100x =2 x	-{
	A) 100 Hz B) 50 Hz	C) 25 Hz D) 200 Hz	f =	
Q.170	A particle carrying a charge of 5e falls the would be energy acquired by the particle			v. What ) ( 2 % )
	A) 1.6 x 10 <sup>-19</sup> J B) 125 J	C) 125 x 10 <sup>-19</sup> J D) 125 x 1.6 x 10	.19 <sub>J</sub> 125x	
Q.171	The unit of magnetic flux density is the te	sla, 'T', it can a	also be expressed a	ns
	A) 1 N A <sup>-1</sup> m B) 1 N <sup>-1</sup> A <sup>-1</sup> m	C) 1 N <sup>-1</sup> A <sup>-1</sup> m <sup>-1</sup> D) 1 N A <sup>-1</sup> m <sup>-1</sup>		
Q.172	If we give a direct current to the transform	ner's primary c	oil, then there will	be:
	A) No emf produced in the secondary     B) More emf produced in the secondary	<ul><li>C) Equal emf pro</li><li>D) Less emf prod</li></ul>	duced in the secondary uced in the secondary	
Q.173	Percentage un-certainty in length and wide certainty in area of that rectangle is?	lth of a rectan	gle is 2% and 3%. T	he total un-
	A) 1.5% B) 5%	C) 1% D) 6%		2 255
Q.174	Electric field strength at a point between between plates is reduced to half, what w	III be the new	value of electric in	the distance tensity?
	A) 4E B) E/2	D) 2E	$=\frac{V}{d}$	
Q.175	The horizontal component of Earth magna horizontal cable is 160A. Calculate the	etic flux densit maximum force	by is $1.8 \times 10^{-6}$ T. The per unit length?	e current in
	A) 2.88× 10 <sup>-6</sup> N/m B) 2.88× 10 <sup>-4</sup> N/m	C) 2.88× 10 <sup>-2</sup> N/n D) 2.88× 10 <sup>-8</sup> N/n	$\beta = 1.8$ $T = 1.8$	A
Q.176	The value and units of the Plank constant	'h' can be exp	ressed as: $\frac{1.8 \times 10^{-10}}{1.8 \times 10^{-10}}$	1.6×164)
	A) 2.88× 10 <sup>-6</sup> N/m B) 2.88× 10 <sup>-4</sup> N/m  The value and units of the Plank constant A) 3.63 x 10 <sup>-34</sup> Js B) 6.63 x 10 <sup>-34</sup> Js The diameter of a wire is measured by using	C) 6.63 x 10 <sup>-34</sup> Js D) 6.63 x 10 <sup>-43</sup> Js	F= h+ h= F	
Q.177	The diameter of a wire is measured by usi of 0.01 mm, then which of the following r	ing a micromet eadings will be	Correct.	n least coun
	A) 6.70 cm B) 0.0067 mm	C) 0.67 cm D) 0.067 cm	9-0/X10	
	a serimple pendulum is d	oubled, then ra	atio of its new time	period to

A) √2 B) 1/√2

C) 2√2 D) -√2

Q.179 For projectile motion in the absence of air resistance:

A) horizontal acceleration is zero B) vertical acceleration is zero

C) horizontal force is constant D) vertical speed is constant

Q.180	In simple harmonic motion, acceleration	on will be maximum, wh	en object is at:						
	A) maximum displacement from the mean position B) center position	C) half of the maximum dis D) mean position	splacement from mean position $ \alpha = -\omega^{\perp} X $ $ \alpha = -\omega^{\perp} $						
	Part - I : Choose THE BEST Option.	NGLISH	$a = -\omega^2$						
Q.181	The culpable child some words t	o her mother for pardor	ning his delinquency.						
	A) Mumbled B) Showy	C) Rude D) Crazy							
Q.182	She was feeling even after for	ive hours of the surgery							
	A) Groggy B) Haggard	C) Pally D) Grope							
Q.183	The parents were stunned when they scompletein the bedroom	aw that children had cre :	eated						
	A) Knack B) Groggy	C) Dank D) Mayhem							
Q.184	I caution in interpreting these res	ults.							
	A) Urge B) Usher	C) Usurp D) Uproot							
Q.185	They sometimes feel a for the mou	intains and the sea.							
	A) Yearning B) Yapping	C) Yelling D) Yielding							
Q.186	The new teacher showed no abo	out hitting the students.							
	A) Quakes B) Qualms	C) Quarrel D) Quotation							
Q.187	The accident happened due to the driv	ver's							
	A) Negligence B) Reluctance	C) Regret D) Nuisance							
	Part - II: In each of the following question CORRECT one and fill the Circle correspondents	on, four alternative senter onding to that letter in th	nces are given. Choose the ne MCQ Response Form.						
Q.188	A. I was been to America for medical	check up.							
	B. I had being to America for medical check up.								
	C. I have been to America for medical	check up.							
	D. I has been to America for medical	check up .							
Q.189	A. After breaking the glass, Ruby said "Please don't tell on me."								
	B. After breaking the glass Ruby said: "Please don't tell on me."								
	C. After breaking the glass, Ruby said: "Please don't tell on me."								
	D. After breaking the glass Ruby said	: please don't tell on m	e.						

- Q.190 A. It is healthful to eat a variety of food.
  - B. It were healthful to eat a variety of food.
  - C. It is healthful to ate a variety of food.
  - D. It were healthful to ate a variety of food.
- Q.191 A. We use to play football when we lived abroad.
  - B. We are used to play football when we lived abroad.
  - C. We used to play football when we lived abroad.
  - D. We have use to play football when we lived abroad.
- Q.192 A. He asked, "Is your brother home?"
  - B. He asked "Is your brother home?"
  - C. He asked, "Is your brother home"?
  - D. He asked "Is your brother home?".
- Q.193 A.We hadn't the foggy notion of the worker who tried to spoil the company's reputation.
  - B.We hadn't the foggiest notion of the worker who tries to spoil the company's reputation.
  - C.We hadn't the foggiest notion of the worker whom tried to spoil the company's reputation.
  - D.We hadn't the foggiest notion of the worker who tried to spoil the company's reputation.

Part - III: SPOT THE ERROR: In the following sentences some segments of each sentence are underlined. Your task is to identify that underlined segment of the sentence, which contains the mistake that needs to be corrected. Fill the Circle corresponding to that letter under the segment in the MCQ Response Form.

Q.194 She had one of those picture children often reproduced

A

В

in advertising leaflets and the photogravure sections of the

C

Sunday papers.

D

Paper ID: B

Q.195	<b>Education and</b>	economic prog	ress <u>along v</u>	vith good		
			A ·	4		
	governance is	the factor that	take a coun	try <u>towards</u> qu	iick	
		В	C	D		
	development.		1.1.			
Q.196	When the mot	her threatened	Lto lock Asla	m <u>in the atti</u> c	i.	
	A	В		C		
	the mere thou	ght for being o	confined mad	le him breath	less.	
		D	v.	1		
Q.197	Let's hurry. Th	ne bus <u>is</u> leavir	ng <u>to</u> the last	stop.		
		в с	D			
Q.198	Ali and Irfan	nave to receive	the guests	at the reception	on of the	
		A		В	cO,	
	hotel, while A	mir <u>have</u> to br	ing their ba	gs <u>from</u> the ca	ars.	
	v.	C		, <b>D</b>	1. 761.	
Q.199	Ruth was wor	ndering what s	he could <u>do</u>	for help but s	he <u>did not</u>	
	Α.			В	C	
	know what to	do.				
		D	MY	, A		
0.200	Despite all m	v enthusiastic	chain of eff	ort, I could no	ot <u>attained</u> the	
Q.200	A		В		C	
				liant success		
	desired resul	ts to be crown		mant success.		
	At 12		D			
	1	(Unive	ersity of Health at Protected U	Sciences, Laho niversity of Hea	re. 2019) Ith Sciences)	
	11				1.	

Paper ID : B



### University of Health Sciences, Lahore



MDCAT-2019 held on August 25, 2019 For Admissions to Medical / Dental Institutions of the Punjab

#### **Answer Key**

The answer key to the questions of Medical & Dental college Admission Test (MDCAT) 2019, held on Sunday, 25th August, 2019 is being released. Candidates can calculate their scores with the help of carbon copy of their response forms. Each correct answer carries one (01) mark. Un-attempted question carries no mark. There is no negative marking in the test. Pass marks of the test are 120/200 (i.e. 60%). Complaints / queries will only be dealt after the

Question	A	В	C	D	Question	A	В	C	, D	Question		· B	1 0 2 14					
1	C	С	A	В	71	С	C	С	В	141	C	A	C D	D B				
2	A	D	C	D	72	С	D	A	В	142	C	C	A	В				
3	В	A	В	В	73	В	D	В	C	143	D C	C	A	A				
4	В	D	D	D	74	D	B C	C	D	145	C	D	C	D				
5	D	В	D	В	75	C	В	C	В	146	A	A	D	A				
6	A	В	C	C	76	D	C	A	C	147	D	٨	A	В				
7 8	D A	C	A	C A	78	A	A	В	C	148	С	C	В	С				
9	A	A	A	D	79	В	D	В	A	149	D	D	C	С				
10	C	A	B/C	D	80	D	В	D	D	150	D	C	Α	A				
11	C	c	D	В	81	A	A	Α.	A	151	D	С	A	В				
12	C	A	C	C	82	D	A	В	D	152	D	Α.	A	D				
13	В	В	Λ	C	83	A	A	D	C	153	D	В	C	D				
14	A	A	D	A	84	В	В	С	A	154	В	D	D	D				
15	В	D	В	В	85	D	С	В	A	155	В	A	D	A				
16	D	D	В	C	86	Α	C	В	C	156	A	С	A	A				
17	C	C	В	D	87	D	С	В	В	157	D	D	С	A				
18	C	A	D	С	88	В	D	A	D	158	В	В	D	D				
19	A	C	В	D	89	В	В	D	A	159	A	В	D	A				
20	В	В	A	A	90	A	C	C	A	160	A D	C B	C B	C				
21	A	A	C	В	91	C	В	D	D	161	B	A	C	В				
22	С	C	C	B	92	D C	C	C	B	163	C	В	В	C				
23	A	D	С	D	93		C	C	D	164	D	D	D	В				
24	A	A D	A D	D	94	C D	C	D	D	165	В	В	C	В				
25 26	D B	В	A	A	96	D	В	В	D	166	٨	A	A	В				
27	D	A	B	D	97	A	D	C	D	167	A	C	D	C				
28	В	A	В	A	98	A	В	В	D	168	A	D	C	Α				
29	В	D	В	D	99	C	В	A	D	169	A	В	В	В				
30	D	C/D	A	В	100	D	A	В	C	170	D	D	C	C				
31	В	C	C	C	101	C	В	A	В	171	D	D	D	D				
32	A	В	В	В	102	В	В	A	В	172	D	A	A	A				
33	C	В	C	В	103	C	A	С	A	173	В	В	A.	A				
34	C	В	В	D	104	A	D	C	D	174	A	D	В	С				
35	С	В	В	A	105	D	A	D	В	175	С	В	D	A				
36	С	В	A	D	106	В	С	D	C	176	С	С	В	В				
37	В	A	C	В	107	В	В	D	A	177	С	D	D	A				
38	D	C	В	В	108	A	A	C	C	178	В	A	D	В				
39	C	C	В	D	109	D	C	В	C	179	D	A	В	A				
40	C	В	C	D	110	С	D	D	C	180	В	A	D	D				
41	1)	C	В	A	111	A	D	A	В	181	В	A	В	D				
42	D	D	A	D	112	В	A	A	A	182	A	A	A	C				
43	В	D	В	В	113	A	A	В	C	183	D	D	A	C				
44	D	В	A	В	114	A	A	A	D	184	A	A	В	A				
45	A	A	A	A	115	A	D	B	A	185	B	A B	D D	C				
46	D	C	A	D	116	C	A	B	A D	186	B	A	D	D				
47	В	D	C	A	117	D C	C A	A B	D	188	A	C	D	A				
48	A	B	C	C	119	D	C	C	В	189	C	C	A	C				
49 50	A	C	D	A/C	120	C	A	A	C	190	C	A	C	C				
51	B	C	В	A	121	C	A	B	D	191	A	C	C	D				
52	D	В	B	A	122	c	B	A	В	192	D	A	C	A				
53	D	C	C	B	123	В	D	D	C	193	C	D	A	C				
54	D	D	A	D	124	D	В	A	D	194	X	X	X	D				
55	D	D	C	A	125	A	В	D	D	195	D	В	В	В				
56	C	C	C	C	126	D	A	A	Α	196	D	D	D	X				
57	A	A	В	C	127	Α	A	D	A	197	B/C	D	B/C	D				
58	A	В	В	В	128	D	В	В	A	198	В	С	В	B/C				
59	C	С	A	A	129	В	С	В	В	199	C	В	C	В				
60	В	В	C	В	130	A	A	C	В	200	В	B/C	D	C				
61	В	C	D	D	131	В	В	C	D	Note: One	question has been	deleted from as	sesment and one MDCAT-2019 on	(01) mark shall by The County				
62	B/C	A	D	C	132	В	A	В	D	appears at	Question Number	194 in Paper ID	A', B', and C', a	nd at 195 in Pa				
63	В	D	D	A	133	В	В	В	В	-		ID D						
64	В	C	D	A	134	D	A	A	С					EUR ENDOLDS				
65	В	A	A	Λ	135	D	В	C	В	Chair	rman Provic		n Committe	e Punjab/				
66	D	C	Α	A	136	C	C	C	D		44-1	vice Chanc	450F	Vice Chancellor				

D

D

C

C

В

C

D

University of Health Sciences, Lahore Ph. 042-99231305-9, Fax: 042-99231212 UHS website: www.uhs.edu.pk E-mail: info@uhs.edu.pk

Note: Each correct answer carries 01 marks. Un attempted question carries zero marks.

C

R

D

D

D

D

C

D

137

138

139

A Ċ

67

68

69