AIPMT - 2001

- Q.1 The dimension of Planck constant equals to that of:
 - (1) Energy
- (2) Momentum
- (3) Angular momentum (4) Power
- **Q.2** Following truth table represent which logic gate -

A	В	С
1	1	0
0	1	1
1	0	1
0	0	1

- (1) XOR
- (2) NOT
- (3) NAND
- (4) AND
- **Q.3** Which rays contain (+ Ve) charged particle: -
 - (1) α -rays
- (2) β -rays
- (3) γ -rays
- (4) X-rays
- **Q.4** An electron having mass 'm' and kinetic energy E enter in uniform magnetic perpendicularly, then its frequency will be: -
 - $(1) \frac{eE}{aVB}$
- $(2) \frac{2\pi m}{eB}$
- $(3) \frac{eB}{2\pi m} \qquad (4) \frac{2m}{eBE}$
- **Q.5** A particle is thrown vertically upward. Its velocity at half of the height is 10 m/s. Then the maximum height attained by it: -

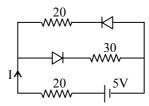
 $(g = 10 \text{ m/s}^2)$

- (1) 8 m (2) 20 m (3) 10 m (4) 16 m
- **Q.6** A particle is projected making angle 45° with horizontal having kinetic energy K. The kinetic energy at highest point will be: -
 - (1) $\frac{K}{\sqrt{2}}$ (2) $\frac{K}{2}$ (3) 2K (4) K
- 0.7 A black body has wavelength λ_m corresponding to maximum energy at 2000 K. Its wavelength corresponding to maximum energy at 3000 K will be:-

 - $(1) \frac{3}{2} \lambda_{\rm m} \qquad (2) \frac{2}{3} \lambda_{\rm m}$
 - $(3) \frac{16}{81} \lambda_{\rm m}$
- $(4) \frac{81}{16} \lambda_{\rm m}$

Two particles having mass 'M' and 'm' are **Q.8** moving in a circular path having radius R & r respectively. If their time period are same then the ratio of angular velocity will be: -

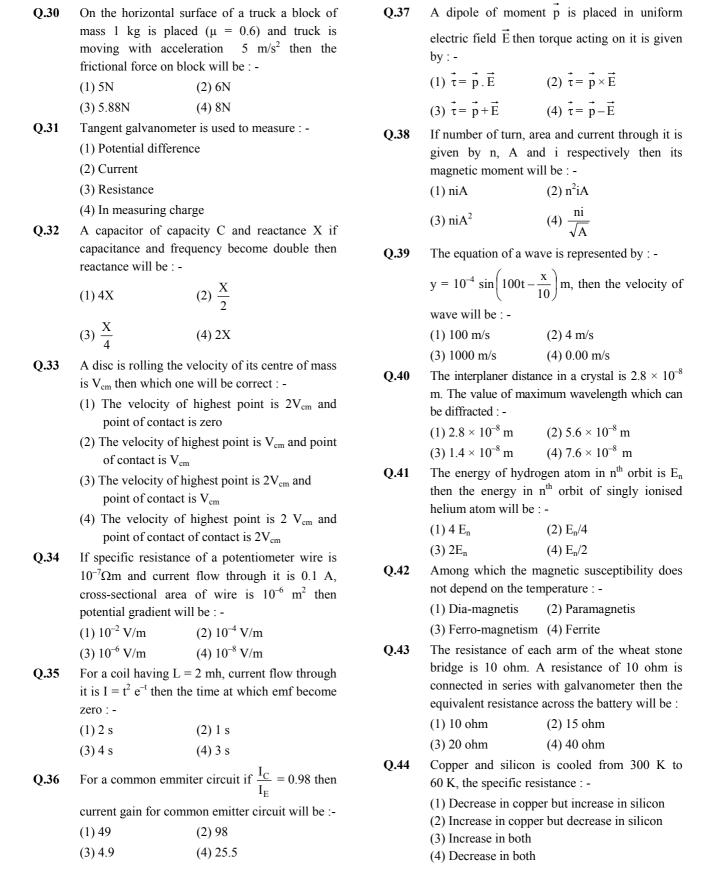
- (1) $\frac{r}{R}$ (2) $\frac{R}{r}$ (3) 1 (4) $\sqrt{\frac{R}{r}}$
- **Q.9** A child is sitting on a swing. Its minimum and maximum heights from the ground is 0.75 m and 2 m respectively, its maximum speed will be
 - (1) 10 m/s
- (2) 5 m/s
- (3) 8 m/s
- (4) 15 m/s
- **O.10** The current (I) in the circuit will be: -

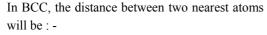


- $(1) \frac{5}{40} A$ $(2) \frac{5}{50} A$ $(3) \frac{5}{10} A$ $(4) \frac{5}{20} A$
- Biological importance of Ozone layer is: -Q.11
 - (1) It stops ultraviolet rays
 - (2) Ozone layer reduces green house effect
 - (3) Ozone layer reflects radio waves
 - (4) Ozone layer controls O₂/H₂ ratio in atmosphere
- 0.12Two springs A and B having spring constant K_A and K_B . $(K_A = 2K_B)$ are stretched by applying force of equal magnitude. If energy stored in spring A is E then energy stored in B will be : -

- (1) 2E (2) $\frac{E}{4}$ (3) $\frac{E}{2}$ (4) 4E
- Q.13 A charge Q μc is placed at the centre of cube, the flux coming out from any surfaces will be: -
 - (1) $\frac{Q}{6\epsilon_0} \times 10^{-6}$ (2) $\frac{Q}{6\epsilon_0} \times 10^{-3}$
- - $(3) \frac{Q}{2\varepsilon_0} \qquad \qquad (4) \frac{Q}{8\varepsilon_0}$
- $X(n, \alpha)$ ⁷₃Li, then X will be: -Q.14
 - $(1)_{5}^{10}B$ $(2)_{5}^{9}B$ $(3)_{4}^{11}Be$ $(4)_{2}^{4}He$

Q.15	Half life of radioactive element is 12.5 Hour and its quantity is 256 gm. After how much time its quantity will remain 1 gm: - (1) 50 Hrs (2) 100 Hrs (3) 150 Hrs (4) 200 Hrs	Q.23	A cylindrical rod having temperature T_1 and T_2 at its end. The rate of flow of heat Q_1 cal/sec. If all the linear dimension are doubled keeping temperature remain const. then rate of flow of heat Q_2 will be:
Q.16	A scientist says that the efficiency of his heat engine which work at source temperature 127°C and sink temperature 27° C to 26%, then		(1) $4Q_1$ (2) $2Q_1$ (3) $\frac{Q_1}{4}$ (4) $\frac{Q_1}{2}$
	(1) It is impossible(2) It is possible but less probable(3) It is quite probable(4) Data are incomplete	Q.24 Q.25	If $ \vec{A} + \vec{B} = \vec{A} = \vec{B} $ then angle between A and B will be: - (1) 90° (2) 120° (3) 0° (4) 60° Optical fibre are based on: -
Q.17	A cricketer catches a ball of mass 150 gm. in 0.1 second moving with speed 20 ms ⁻¹ . Then he experiences force of: - (1) 300 N (2) 30 N (3) 3 N (4) 0.3 N If the tension and diameter of a sonometer wire		 (1) Total internal relfection (2) Less scattering (3) Refraction (4) Less absorbtion coefficient
Q.18	of fundamental frequency n is doubled and density is halved then its fundamental frequency will become	Q.26	Which one among shows particle nature of light. (1) P.E.E. (2) Interference (3) Refraction (4) Polirazation
Q.19	(1) $\frac{n}{4}$ (2) $\sqrt{2}$ n (3) n (4) $\frac{n}{\sqrt{2}}$ The total energy of particle performing SHM depend on: - (1) K, a, m (2) K, a	Q.27	Two waves having equation $x_1 = a \sin(\omega t + \phi_1)$ $x_2 = a \sin(\omega t + \phi_2)$ If in the resultant wave the frequency and
Q.20	(3) K, a, x (4) K, x With what velocity should a particle be projected so that its height becomes equal to radius of earth - (1) $\left(\frac{GM}{R}\right)^{1/2}$ (2) $\left(\frac{8GM}{R}\right)^{1/2}$		amplitude remains equals to amplitude of superimposing waves. Then phase diff. between them: - (1) $\frac{\pi}{6}$ (2) $\frac{2\pi}{3}$ (3) $\frac{\pi}{4}$ (4) $\frac{\pi}{3}$
Q.21	(3) $\left(\frac{2 \text{ GM}}{\text{R}}\right)^{1/2}$ (4) $\left(\frac{4 \text{ GM}}{\text{R}}\right)^{1/2}$ A disc is placed on a surface of pond which has refractive index $\frac{5}{3}$. A source of light is placed 4	Q.28	In Thomson mass spectrograph $\vec{E} \perp \vec{B}$ then the velocity of underflected electron beam will be: (1) $\frac{ \vec{E} }{ \vec{B} }$ (2) $\vec{E} \times \vec{B}$ (3) $\frac{ \vec{B} }{ \vec{E} }$ (4) $\frac{E^2}{B^2}$
Q.22	m below the surface of liquid. The minimum radius of disc will be so light is not coming out $(1) \infty$ $(2) 3m$ $(3) 6m$ $(4) 4m$ A ray of light travelling in air haves wavelength λ , frequency n, velocity v and intensity I. If this ray enters into water then these parameter are λ' , n', v' and I' respectively. Which relation is correct	Q.29	Energy per unit volume for a capacitor having area A and separation d kept at potential diffeence V is given by: - (1) $\frac{1}{2} \varepsilon_0 \frac{V^2}{d^2}$ (2) $\frac{1}{2\varepsilon_0} \frac{V^2}{d^2}$ (3) $\frac{1}{2} CV^2$ (4) $\frac{Q^2}{2C}$
	(1) $\lambda = \lambda'$ (2) $n = n'$ (3) $v = v'$ (4) $I = I'$		$\frac{(3)}{2} \frac{\overline{2}CV}{2C}$



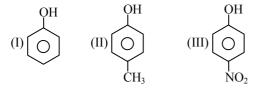


(1)
$$\sqrt{3}$$
 a (2) $\frac{\sqrt{3}}{2}$ a (3) $\frac{\sqrt{3}}{4}$ a (4) $\frac{a}{2}$

- **Q.46** 250 N force is required to raise 75 kg mass from a pulley. If rope is pulled 12 m then the load is lifted to 3m, the efficiency of pulley system will be: -
 - (1)25%

Q.45

- (2) 33.3%
- (3) 75%
- (4) 90%
- Q.47 A photo-cell is illuminated by a source of light, which is placed at a distance d from the cell. If the distance become d/2, then number of electrons emited per second will be: -
 - (1) Remain same
- (2) Four times
- (3) Two times
- (4) One-fourth
- Q.48 M_n and M_p represet the mass of neutron and proton respectively. An element having mass M has N neutron and Z-protons, then the correct relation will be: -
 - $(1) M < \{N.M_n + Z.M_n\} (2) M > \{N.M_n + Z.M_n\}$
 - (3) $M = \{N.M_n + Z.M_p\}$ (4) $M = N\{M_n + M_p\}$
- 0.49 A 1 kg stationary bomb is exploded in three parts having mass 1:1:3 respectively. Parts having same mass move in perpendicular direction with velocity 30 ms⁻¹, then the velocity of bigger part will be: -
 - (1) $10 \sqrt{2} \text{ ms}^{-1}$ (2) $\frac{10}{\sqrt{2}} \text{ms}^{-1}$
 - (3) $15\sqrt{2} \text{ ms}^{-1}$ (4) $\frac{15}{\sqrt{2}} \text{ ms}^{-1}$
- Q.50 Energy is released in nuclear fission is due to
 - (1) Few mass is converted into energy
 - (2) Total binding energy of fragements is more than the B.E. of parantel element
 - (3) Total B.E. of fragements is less than the B.E. of parantel element
 - (4) Total B.E. of fragements is equals to the B.E. of parantal element is
- Q.51 The correct acidic order of following is: -



CH₃-CH₂-CH-CH₃ obtained by chlorination of O.52

(2) III > I > II

(4) I > III > II

- - (1) Meso form (2) Racemic mixture
 - (3) d-form (4) ℓ -form
- Q.53 Which alkeneon ozonolysis gives

n-butane, will be: -

(1) I > II > III

(3) II > III > I

(1)
$$CH_3CH_2CH = C$$
 CH_3
 CH_3

- (2) $CH_3CH_2CH = CHCH_2CH_3$
- (3) CH₃CH₂CH = CHCH₃
- Q.54 Intermediates formed during reaction RCNH₂ with Br₂ and KOH are : -
 - (1) RCONHBr and RNCO
 - (2) RNHCOBr and RNCO
 - (3) RNH-Br and RCONHBr
 - (4) RCONBr₂
- Q.55 An organic compound A(C₄H₉Cl) on reaction with Na/diethyl ether gives a hydrocarbon which on monochlorination gives only one chloro derivative then, A is: -
 - (1) t-butyl chloride
 - (2) sec. butyl chloride
 - (3) Iso butyl chloride
 - (4) n-butyl chloride
- Which of the following is incorrect: -Q.56
 - (1) FeCl₃ is used in detection of phenol
 - (2) Fehling solution is used in detection of glucose
 - (3) Tollen reagent is used in detection of unsaturation
 - (4) NaHSO₃ is used in detection of carbonyl compound
- Q.57 Which of following give positive Fehling solution test
 - (1) Sucrose (2) Glucose
 - (3) Fats (4) Protein

Q.58 Which of the following is not correctly matched

(1) Neoprene
$$\begin{bmatrix} -CH_2 - C = CH - CH_2 - \\ Cl \end{bmatrix}_n$$

(2) Nylon-66

$$\begin{bmatrix} O & & & \\ -NH - (CH_2)_6 - NH - CO - (CH_2)_4 - C - O - \\ & & \end{bmatrix}_T$$

(3) Terylene
$$OCH_2-CH_2-C$$
 OCH_2-CH_2-C

$$(4) \text{ PMMA} \begin{bmatrix} CH_3 \\ -CH_2 - C \\ -COOCH_3 \end{bmatrix}_n$$

- **Q.59** Which of the following is correct: -
 - (1) Cyclo heptane is an aromatic compound
 - (2) Diastase is an enzyme
 - (3) Acetophenone is an ether
 - (4) All the above
- **Q.60** The incorrect IUPAC name is : -
 - (1) CH_3 –C–CH– CH_3 2-methyl-3-butanone $\parallel \parallel \parallel$ O CH_3
 - (2) CH₃–CH–CH–CH $_3$ 2, 3-dimethyl pentane CH $_3$ CH $_2$ –CH $_3$
 - (3) $CH_3-C = CCH(CH_3)_2$ 4-methyl-2-pentyne
 - (4) CH₃-CH-CH₋CH₃ 2-bromo-3-chloro butane
- Q.61 In preparation of alkene from alcohol using Al₂O₃ which is effective factor: -
 - (1) Porousity of Al₂O₃
 - (2) Temperature
 - (3) Concentration
 - (4) Surface area of Al₂O₃
- Q.62 Which of following is correct: -
 - (1) Any aldehyde gives secondary alcohol on reduction
 - (2) Reaction of vegetable oil with H₂SO₄ give glycerin
 - (3) C₂H₅OH, iodine with NaOH gives iodoform
 - (4) Sucrose on reaction with NaCl give invert sugar

- **Q.63** Which of the following is correct about H-bonding in nucleotide: -
 - (1) A-T G-C
- (2) A-G T-C
- (3) G-T A-C
- (4) A-A T-T
- **Q.64** Which is correct statement : -
 - (1) Starch is polymer of α -glucose
 - (2) Amylose is a component of cellulose
 - (3) Proteins are composed of only one type of amino acid
 - (4) In cyclic structure of fructose, there are four carbons and one oxygen atom

Q.65
$$\overset{\text{O}}{-\text{C}} \overset{\text{O}}{\cdot} \overset{\text{O}}{\cdot} \text{H} - \text{(peptide bond)}$$

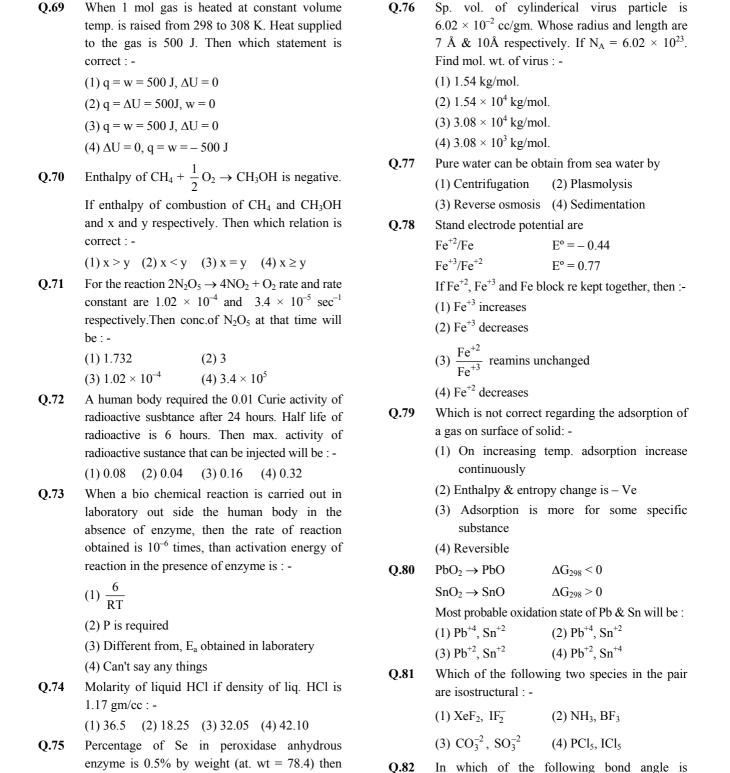
which statement is incorrect about peptide bond: -

- (1) C–N bond length in protiens is longer than usual bond length of N-bond
- (2) Spectroscopic analysis show planar structure of C –NH group
- (3) C–N bond length in proteins is smaller than usual bond length of C–N bond
- (4) None of above
- **Q.66** In steam distillation of toluene, the pressure of toluene in vapour is: -
 - (1) Equal pressure of barometer
 - (2) Less than pressure of barometer
 - (3) Equal to vapour pressure to toluene in simple distillation
 - (4) More than vapour pressure of toluene in simple distillation
- **Q.67** A compound of molecular formula is C_7H_{16} shows optical isomerism, compound will be
 - (1) 2, 3-dimethyl pentane
 - (2) 2, 2-dimethyl butane
 - (3) 2-methyl hexane
 - (4) None of the above
- Q.68 Change in enthalpy for reaction

$$2H_2O_2(\ell) \rightarrow 2H_2O(\ell) + O_2(g)$$

If heat of formation of $H_2O_2(\ell)$ and $H_2O(\ell)$ are -188 & -286 KJ/mol respectively : -

- (1) 196 KJ/mol
- (2) + 196 KJ/mol
- (3) + 948 KJ/mol
- (4) 948 KJ/mol



maximum:

(2) NH_4^+

(4) SCl₂

(1) NH₃

(3) PCl₃

minimum molecular weight of peroxidase

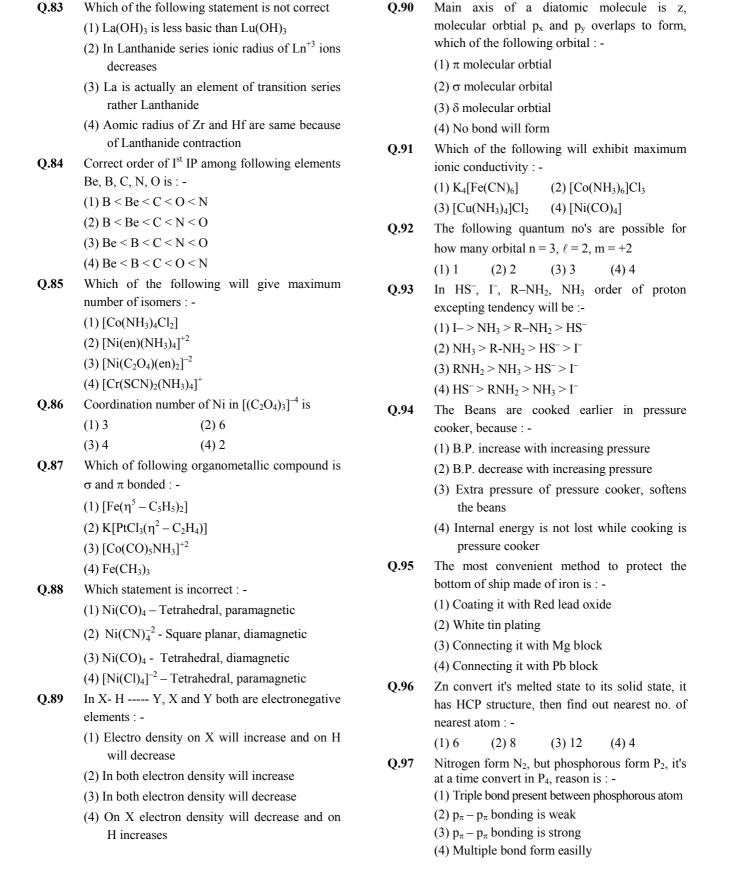
(2) 1.568×10^3

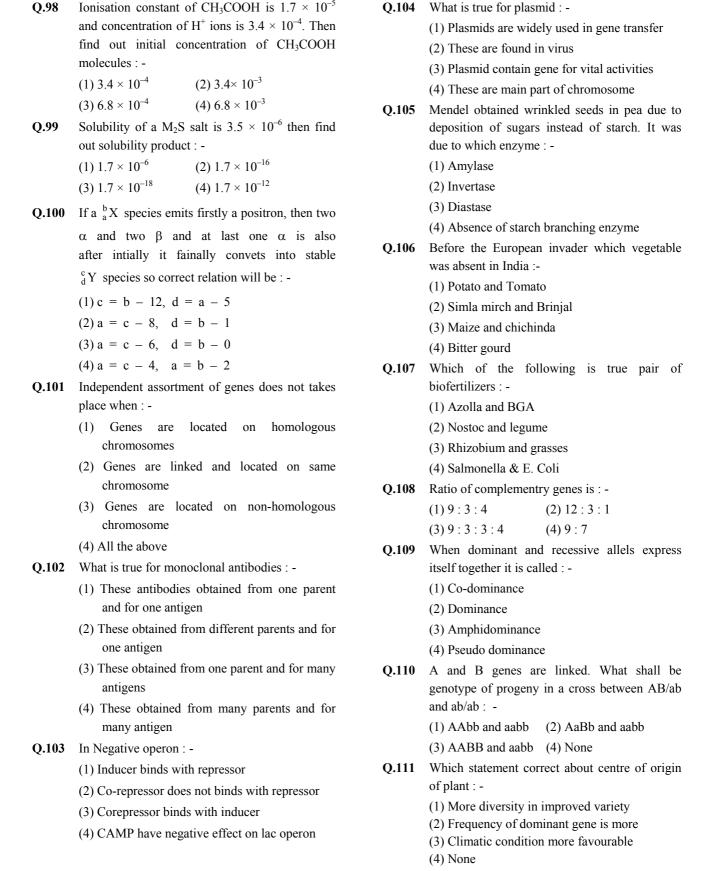
 $(4) 2.136 \times 10^4$

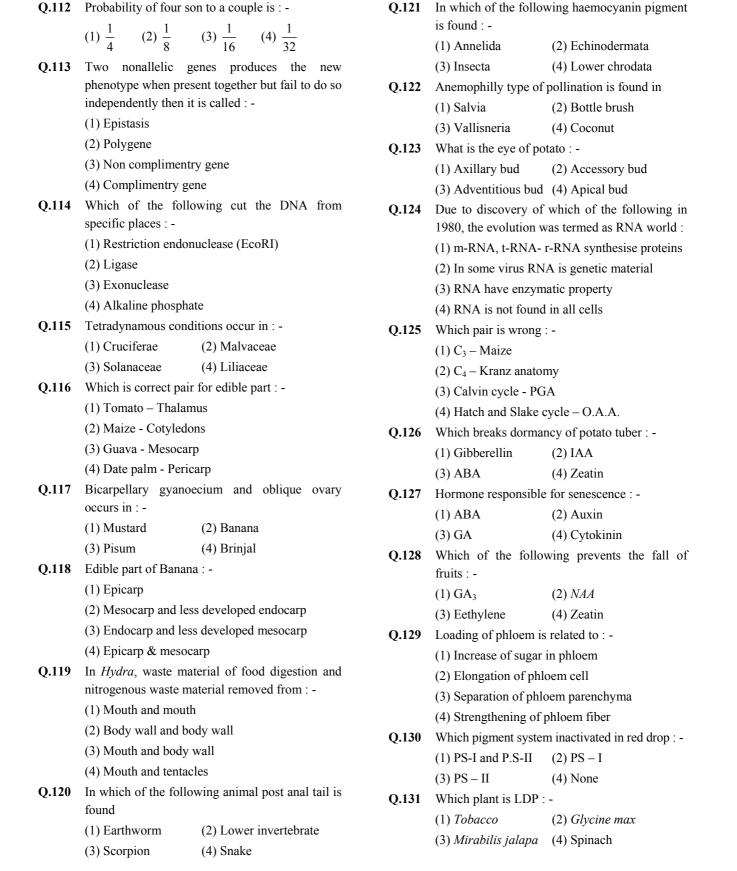
anhydrous enzymes is: -

 $(1) 1.568 \times 10^4$

(3) 15.68







Q.132	What is true for photolithotrops:-	Q.141	L.S.D. is : -	
	(1) Obtain energy from radiations and hydrogen		(1) Hallucinogenic (2) Sedative	
	from organic compounds		(3) Stimulant (4) Tranquiliser	
	(2) Obtain energy from radiations and hydrogen	Q.142	Which set is similar: -	
	from inorganic compounds		(1) Corpus luteum – graffian follicles	
	(3) Obtain energy from organic compounds		(2) Sebum-sweat	
	(4) Obtain energy from inorganic compounds		(3) Bundle of his – Pace macker	
Q.133	In which of the following plant sunken stomata		(4) Vita B ₇ - Niacin	
	are found : -	Q.143	Salmonella is related with : -	
	(1) Nerium (2) Hydrilla		(1) Typhoid (2) Polio	
	(3) Mango (4) Guava		(3) T.B. (4) Tetanus	
Q.134	What is the best pH of the soil for cultivation of	Q.144	Difference in gram ⊕ and gram ⊖ bacteria is	
	plants : -		due to -	
	$\begin{array}{ccc} (1) \ 3.4 - 5.4 & (2) \ 6.5 - 7.5 \\ \end{array}$		(1) Cell wall (2) Cell membrane	
0.40=	(3) 4.5 – 8.5 (4) 5.5 – 6.5		(3) Ribosome (4) Cytoplasm	
Q.135	Which fish selectively feed on larva of	Q.145	What is sarcomere : -	
	mosquito : - (1) Combusia (2) Poly		(1) Part between two H-line	
	(1) Gambusia (2) Rohu (3) Clarias (4) Exocoetus		(2) Part between two A-line	
Q.136	Which one of the following is correct match		(3) Part between two I-band	
Q.130			(4) Part between two Z-line	
	(1) Reserpine – Tranquilliser(2) Cocaine – opiatic narcotic	Q.146	Which statement is correct for muscle	
	(3) Morphine – Hallucinogenic		contraction : -	
	(4) Bhang – Analgesic		(1) Length of H-zone become decrease	
Q.137	What is B.O.D.: -		(2) Length of A-band remains constant	
Q.10 /	(1) The amount of O_2 utilised by organisms in	O ₂ utilised by organisms in (3) Length (
	water		(4) Length of two Z-line become increase	
	(2) The amount of O ₂ utilized by micro	Q.147	Characteristics character of human cornea	
	organisms for decomposition		(1) Secreted by conjuctive and glandular	
	(3) The total amount of O₂ present in water(4) All of the above		(2) It has lacrimal gland which secrete tears(3) Blood circulation is absent in cornea	
			(4) In old age it become harden and white layer	
Q.138	In grasses what happens in micro spore mother		deposite on it which causes the cataract	
	cell for the formation of mature pollen grains : -	Q.148	Which of the most infectious disease is: -	
	(1) One meiotic and two mitotic divisions		(1) Hepatitis -B(2) AIDS(3) Cough and cold(4) Malaria	
	(2) One meiotic & one mitotic divisions	Q.149	Interferons are synthesized in response to	
	(3) One meiotic division	C	(1) Mycoplasma (2) Bacteria	
	(4) One mitotic division		(3) Viruses (4) Fungi	
Q.139	What is the intensity of sound in normal conversation:-	Q.150	Cauliflower mosaic virus contains : -	
	(1) $10 - 20$ decibal (2) $30 - 60$ decibal		(1) ss RNA (2) ds RNA	
	(3) 70 – 90 decibal (4) 120 – 150 decibal	0.151	(3) ds DNA (4) ss DNA	
Q.140	Adventive embryony in citrus is due to : -	Q.151	Reason of lung cancer: -	
-	(1) Nucellus (2) Integuments		(1) Coal mining (2) Calcium fluoride	
	(3) Zygotic embryo (4) Fertilized egg		(3) Cement factory (4) Bauxite mining	

Q.152	When water moves	through a semipermeable	Q.162	Male XX and female XY sometime occur due to	
		of the following pressure		(1) Deletion	
	develops : -			(2) Transfer of	segments in X and Y
	` '	(3) T.P. (4) W.P.		chromosomes	
Q.153	Proteinaceous pigme			(3) Aneuploidy	
	activities concerned w	_		(4) Hormonal imbala	ance
	•	(2) Chlorophyll	Q.163	No. of Bar Body in	XXXX female : -
	(3) Anthocyanin	(4) Carotenoids		(1) 1	(2) 2
Q.154	Glycolate induces oper	•		(3) 3	(4) 4
	(1) Presence of oxygen	$n(2)$ Low CO_2 conc.	Q.164	Types of RNA poly	merase required in nucleus
	(3) High CO ₂	(4) CO ₂ absent		for RNA synthesis:	-
Q.155	Enzyme first used for	nitrogen fixation : -		(1) 1	(2) 2
	(1) Nitrogenase	(2) Nitroreductase		(3) 3	(4) 4
	(3) Transferase	(4) Transaminase	Q.165	What is true for Arcl	naebacteria : -
Q.156	Maximum number	of bases in plasmids		(1) All Halophiles	(2) All photosynthetic
	discovered so far : -			(3) All fossils	(4) Oldest living beings
	(1) 50 kilo base	(2) 500 kilo base	Q.166	Extranuclear inherite	ence occurs in : -
	(3) 5000 kilo base	(4) 5 kilo base		(1) Killer paramaecium	
Q.157	Passive absorption of a	minerals depend on		(2) Killer Amoeba	
	(1) Temperature			(3) Euglena	
	(2) Temperature and n	netabolic inhibitor		(4) Hydra	
	(3) Metabolic inhibitor	nhibitor		Extranuclear chromosomes occur in : -	
	(4) Humidity			(1) Peroxisome, Ribosome	
Q.158	Half life period of C ¹⁴	is : -		(2) Chloroplast and I	
	(1) 500 years	(2) 5000 years		(3) Mitochondria and Ribosome	
	(3) 50 years	$(4) 5 \times 10^4 \text{ years}$		(4) Chloroplast and Lysosome	
Q.159	Which one correctly m	natched : -	Q.168	Spoilage of oil can be detected by which fatty	
	(1) Vit. E	Tocoferole	Q 1-11	acid: -	
	(2) Vit. D	Riboflavin		(1) Oleic acid	(2) Linolenic acid
	(3) Vit. B	 Calciferole 		(3) Linoleic acid	(4) Erusic acid
	(4) Vit. A	- Thiamine	Q.169		om dark to light, we fail to
Q.160	E. Coli about to re	eplicate was placed in a		see for sometimes but after a time visibili	
		adio active thymidine for		becomes normal. It is example of	
		was made to replicate in a		(1) Accomodation	
		Which of the following		(2) Adaptation	
	observation shall be co			(3) Mutation	
	(1) Both the strands of DNA will be radio active			(4) Photoperiodism	
	(2) One strand radio ac		Q.170	In plants inulin and pectin are (1) Reserved material (2) Wastes	
	(3) Each strand half ra				
	(4) None is radio activ				
Q.161	_	c compound on earth is		(3) Excretory material	
	` '	(2) Cellulose		(4) Insect attracting	
	(3) Lipids	(4) Steroids		. ,	

synonymously because : - (1) Mitochondria (2) Flagel (1) One cistron contains many genes (3) Spindle fibres (4) Centri		
	iole	
(2) One gene contains many cistrons Q.181 Which aquatic fern performs nitr	ogen fixation : -	
(3) One gene contains one cistron (1) Azolla (2) Nosto	c	
(4) One gene contains no cistron (3) Salvia (4) Salvin		
Q.172 Element necessary for the middle lamella Q.182 Roots of which plant contains		
(1) Ca (2) Zn which have affinity for oxygen:	1 0	
(3) K (4) Cu (1) Carrot (2) Soyab	ean	
Q.173 Cycas have two cotyledons but not included in (3) Mustard (4) Radisl	h	
angiosperms becuase of: - Q.183 Triticale is obtained by crossing	wheat with	
(2) Seems like monocot Q.184 At the time of organogenesis ge	enes regulate the	
	process at different levels and at different time	
(4) Compound leaves due to :		
Q.174 Plant Decomposers are: - (1) Promoter (2) Regular	ator	
(1) Monera and fungi (3) Intron (4) Exon		
(2) Fungi and plants Q.185 A mutant strain of T ₄ – Bact	eriophage, R-II,	
(3) Protista and Animalia fails to lyse the <i>E-Coli</i> but whe		
(4) Anibalia and Mogna II ^X and R-II ^Y are mixed the	• •	
0.175 What is true for evano bacteria: -	E.Coli. What may be the possible reason: -	
(1) Oxygenic with nitrogenase (1) Oxygenic with nitrogenase	wild	
(2) Oxygenic without nitrogenase		
(3) Non oxygenic with nitrogenase		
(4) Non oxygenic without nitrogenase	(4) Both strains have different cistrons	
Q.176 m-RNA is synthesised on DNA template in	ng : -	
which direction : - (1) Mutation		
(1) $5' \rightarrow 3'$ (2) $3' \rightarrow 5'$ (2) Long term evolutionary char	nge	
(3) Both (4) Any (3) Gradual change		
Q.177 Cytochrome is: - (4) Short term evolutionary char	nge	
(1) Metallo flavo protein (2) Fe containing porphyrin pigment (3) Fe containing porphyrin pigment (4) Change of Amino Acid	in a chain of	
Haemoglobin	iii a-chain oi	
(3) Change of Amino Acid	in β-chain of	
(4) Lipid Haemoglobin	,	
Q.178 Which of the following less general in characters as compared to genus: - (3) Change of Amino acid in	n both α and β	
(1) Species (2) Division chain of Haemoglobin		
(3) Class (4) Family (4) Change of Amino acid eith of Haemoglobin	her α or β chain	
Q.179 Adhesive pad of fungi penetrate the host with the Q.188 Similarities in organism with di	fferent genotyne	
help of : - indicates : -	merent genotype	
(1) Mechanical pressure and enzymes (1) Microevolution		
(2) Hooke and suckers (2) Macroevolution		
(3) Softening by enzymes (3) Convergent evolution		
(4) Only by mechanical pressure (4) Divergent evolution		

- What is correct for Blood group 'O': -Q.189 (1) No antegens but both a and b antibodies are present (2) A antegen and b antibody (3) Antigen and Antibody both absent (4) A and B antigens and a, b, antibodies Which of the following is closest relative of O.190 man:-(1) Chimpanzee (2) Gorilla (3) Orangutan (4) Gibbon Q.191 Which of the following is correct order of the evolutionary history of man: -(1) Peking man, Homo sapiens, Neanderthel man, Cromagnon man (2) Peking man, Neanderthal man, Homosapiens Cromagnon man (3) Peking man, Hedalberg man, Neanderthal man, Cromagnon man (4) Peking man, Neanderthal man, Homosapiens Hedalberg man Q.192 Which cells do not form layer and remains structurally seperate: -(1) Epithelial cells (2) Muscle cells (3) Nerve cells (4) Gland cells Q.193 During an injury Nasal septum gets damaged and for it's recovery which cartilage prefered: -(1) Elastic cartilage (2) Hyaline cartilage (3) Calcified cartilage (4) Fibrous cartilage Q.194 First life on earth was: -(1) Cyanobacteria (2) Chemohetrotrophs (3) Autotrophs (4) Photoautotrophs Frequency of an allele in an isolated population Q.195 may change due to: -(1) Genetic drift (2) Gene flow (3) Mutation (4) Natural selection 0.196 In lederberg's replica plating experiment what shall be used to obtain streptomycin resistant strain: -(1) Minimal medium and streptomycine (2) Complete medium and streptomycine (3) Only minimal medium (4) Only complete medium
- Forecomming generations are less adaptive than their parental generation due to: -
 - (1) Natural selection (2) Mutation
 - (3) Genetic drift (4) Adaptation
- Q.198 During regeneration, modification of an organ to other organ is known as: -
 - (1) Morphallogenesis
 - (2) Epimorphosis
 - (3) Morphallaxis
 - (4) Accretionary growth
- **Q.199** Occurrence of endemic species in south america and Australia due to:
 - (1) These species has been extinct from other regions
 - (2) Continental separation
 - (3) These is no terrestrial route to these places
 - (4) Retrogressive evolution
- **Q.200** Darwins theory of pangenesis shows similarity with theory of inheritance of acquired characters then what shall be correct according to it:-
 - (1) Useful organs become strong and developed while useless organs become extinct. These organs help in struggle for survival
 - (2) Size of organs increase with aging
 - (3) Development of organs is due to will power
 - (4) There should be some physical basis of inheritance