NEET MOCK TEST-01

Time : 3.00Hrs

200 MCQs PATTERN

Max.Marks.720

INSTRUCTIONS

1. This test will be a 3 hours Test, Maximum Marks 720M.

2. This test consists of Physics, Chemistry, Botany and Zoology questions with equal weightage of 180 marks.

3. Each question is of <mark>4 m</mark>arks.

4. There are four parts in the question paper, consisting Part-I Physics (Q.no.1 to 50), Part-II Chemistry (Q.no.51 to 100), Part-III Botany (Q. no. 101 to 150) and Part-IV Zoology (Q. no.151 to 200). Each part is divided into two Sections, Section A consists of 35 multiple choice questions & Section-B consists of 15 Multiple choice questions, out of these 15 questions candidates can choose to attempt any 10 questions.

5. There will be only one correct choice in the given four choices for each question. For each question <u>4 marks will be awarded for correct choice</u>, <u>1 mark will be deducted</u> for incorrect choice and zero mark will be awarded for unattempted question.

6. Any textual, printed or written material, mobile phones, calculator etc. is not allowed for the students appearing for the test.

7. All calculations / written work should be done in the rough sheet provided.

		Syllabus	
Physics	: CLASS X	I & XII	
Chemistry	: CLASS X	I & XII	
Biology	: CLASS X	I & XII	
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32.	1) $0.0125 Nm^{-1}$ 2) $0.1 Nm^{-1}$ 3) $0.05 Nm^{-1}$ 4) $0.025 Nm^{-1}$ A vessel contains oil (density 0.8 g/cc) over mercury (density 13.6 g/cc). a homogeneous sphere floats with half of its volume immersed in mercury and the other half of its volume immersed in oil. The density of the material of the sphere in g/cc is 1) 3.3 2) 6.4 3) 7.2 4) 12.8
33.	If a piece of plane glass is placed on a word with letters of different colours, then the colour of the letter which will appear to be least raised is
34.	If moment of inertia of disc about the diameter is given as I, then the moment of inertia of the same disc about an axis perpendicular to its plane and passing through its rim is
35.	1) 6I 2) 4I 3) 2I 4) 8I A uniform disc of mass 300kg is rotating freely about a vertical axis through its centre at a constant angular velocity ω_0 . A boy of mass 30 kg starts from the centre and moves along a radius to the edge
	of the disc. Angular velocity of the disc will now become 1) $\frac{\omega_0}{6}$ 2) $\frac{\omega_0}{5}$ 3) $\frac{4\omega_0}{5}$ 4) $\frac{5\omega_0}{6}$
	SECTION-B
36.	A transistor is used as a common emitter amplifier with a load resistance of $2k\Omega$. The input resistance is 150Ω . Base current is changed by $20\mu A$ which results in change in collector current by 1.5 mA. The voltage gain of the amplifier is
37.	1) 9002) 10003) 11004) 1200If a LED forward biased, then1) electrons from the n – type side cross the p – n junction and recombine with holes in the p – type side
20	 2) electrons and holes neutralize each other in depletion region 3) at junction electrons and holes 4) none of these
38.	Temperature at which the kinetic energy of gas molecule is half of the value of kinetic energy at $27^{\circ}C$ is 1) $13.5^{\circ}C$ 2) $150^{\circ}C$ 3) $75K$ 4) $-123^{\circ}C$
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44. A wave is represented by the equation given by $y = 7\sin\left(7\pi t - 0.04\pi x + \frac{\pi}{3}\right)$ where x is in metres

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and t is in seconds. The speed of the wave is

1) 175 m/s 2) 49\pi m/s 3) 4.9\pi m/s 4) 0.28\pi m/s

Work done by static friction on an object
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- 45. Work done by static friction on an object
 1) may be positive
 2) must be negative
 3) must be zero
 4) none of these
- 46. Three rods of identical geometry but different thermal conductivity are joined as shown. Temperature of the three ends are shown. Temperature of the junction is

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PART-2 : CHEMISTRY SECTION-A

51.	pK_a of a weak acid of their salt (AB) so	(HA) and pK_b of weak lution at 25° C is	base (BOH) are 3.2 and	3.4 respectively. The pH
	1) 6.9	2) 7.0	3) 1.0	4) 7.2
52.	$CH_3Br \longrightarrow A \longrightarrow A$	$\xrightarrow{4[H]}{CH_3CH_2NH_2} CH_3CH_2NH_2$,
	IUPAC name of A i	S		
	1) Methyl cyanide	2) Methyl isonitrile	3) Acetonitrile	4) Ethane nitrile
53.	Which of the follow	ang exhibits greater co	Dagulation power towar	ds a negative colloid?
	1) $ZnSO_4$	2) Na_3PO_4	$5) AlCl_3$	4) $K_4[Fe(CN)_6]$
54.	 1 wo half cells have made from these tw 1) Electrode of half 2) Electrode of half 3) Electrode of half 4) Electrode of half electrode 	reduction potentials - vo half cells. Which of -cell potential -0.76 V a -cell potential -0.76 V a -cell potential -0.13 V a -cell potential -0.76 V a	0.76 V and -0.13 V respe the following statement acts as cathode acts as anode acts as anode acts as positive electrode	e and -0.13 V as negative
55.	What will happen we solution of 1 M ZnS	when a block of coppe O_4 ?	r metal is dropped into a	a beaker containing a
56.	 The copper meta The copper meta No reaction will The copper meta Electrometallurgica 	l will dissolve with ev l will dissolve with ev occur l will dissolve and zin l process is used to ex	olution of oxygen gas olution of hydrogen gas c metal will be deposited tract	d
	1) Fe	2) Pb	3) Na	4) Ni
57.	The correct IUPAC	name of the following	compound is	
	1) 7-Ethyl-2, 4, 5, 6 2) 4-Ethyl-5,6,7,9-te 3) 2, 4, 5, 6 – tetram 4) None of these	- tetramethyldeca-1, 8 tramethyldeca-2,9-die ethyl-7-ethyldeca-1, 7-	– diene ne diene	
58.	Which of the follow	ving sulphates has the	highest solubility?	
	1) $BeSO_4$	2) $MgSO_4$	3) $BaSO_4$	4) <i>CaSO</i> ₄
59.	In Clemmensen's re	eduction, the catalyst 1	ısed is	
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	1) Zn – Hg + Conc. HCl 2) $NH_2NH_2 + C$	C_2H_5ONa			
60	3) $PdCl_2 / H_2O$ 4) $(C_6H_5)_3P + 0$ The functional group which is formed when Phenol is made	C_2H_5ONa			
	presence of dilute Sodium hydroxide				
	1) $-CH_2Cl$ 2) $-COOH$ 3) $-CHCl_2$	4) –CHO			
61.	. The compound formed when Ethyl bromide is heated with (1) dimethylether 2) diethylether 3) Methylalco	dry Silver oxide is ohol 4) ethylalcohol			
62.	and 1 atmospheric pressure) equal to	produce dinitrogen gas (at 0° C			
(0)	1) 22.4 L 2) 1L 3) 11.2 L	4) 24.8 L			
63.	 The correct statement about orthoboric acid is 1) It is a strong monobasis acid 				
	2) It is not a proton donor, but a weak Lewis acid				
	3) It is a tribasic acid 4) It is harmfu	ul for eves			
64.	The energy required to remove an electron from the surface	of sodium metal is 2.3 eV.			
	What Is the longest wavelength of radiation with which it ca	an show photoelectric effect?			
	1) $5.4 \times 10^{-17} m$ 2) $5.4 \times 10^{-8} m$ 3) $5.4 \times 10^{-7} m$	4) $5.4 \times 10^{-9} m$			
65.	6. If the dipole mom <mark>ent o</mark> f To <mark>luene</mark> and Nitro-benzene are 0.43	3D and 3.93D respectively, then			
	what is the expected dipole moment of p-Nitrotoluene?				
	1) 3.50 D 2) 2.18 D 3) 4.36 D	4) 5.30 D			
66.	Methanoic acid is heated with conc. H_2SO_4 to form				
	1) CO 2) CO_2 3) CH_4	4) $(COOH)_2$			
67.	Glucose when treated with conc. HNO_3 gives				
	1) Acetic acid 2) Saccharic acid 3) Gluconic a	cid 4) Sorbitol			
68.	Phenol associated in Benzene to a certain extent to form dim	ner. A solution containing			
	$2.0 \times 10^{-2} kg$ of Phenol in 1.0 kg of benzene has its freezing point decreased by 0.69 K. The				
	percentage of association of Phen <mark>ol is (<i>K_f</i> for ben</mark> zene = 5.12	$2 \mathrm{K} \mathrm{kg} mol^{-1}$)			
	1) 73.4 2) 50.1 3) 42 .3	4) 25.1			
69.	The increasing order of the first ionization enthalpies of the	elements B, P, S and F is			
	1) $B < S < P < F$ 2) $F < S < P < B$ 3) $P < S < B <$	$F \qquad 4) B < P < S < F$			
70.	When a NaCl is heated with sulphuric acid in the presence of	of MnO_2 a greenish-yellow gas			
	liberated. The gas is				
	1) Cl_2 2) NH_3 3) N_2	4) H_2			
71.	. $C_5 H_{10}O$ is a carbonyl compound. The number of carbonyl str	ructural isomers possible for			
	this molecular formula are				
	1) 5 2) 8 3) 6	4) 7			
72.	In the reaction $4A + 2B + 3C \rightarrow A_4B_2C_3$, what will be the number	er moles of product formed,			
	starting from one mole of A, 0.6 moles of B and 0.72 moles o	of C?			
70	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4) 2.32			
73.	In a solubility of AgCl(s) with solubility product 1.6×10^{-10} in	U.1 M NaCl solution would be			
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1) $1.26 \times 10^{-5} M$ 2) $1.6 \times 10^{-9} M$ 3) $1.6 \times 10^{-11} M$ 4) $1.26 \times 10^{-15} M$	Т
STRONG ROOTS CREATE MERI 1) $1.26 \times 10^{-5} M$ 2) $1.6 \times 10^{-9} M$ 3) $1.6 \times 10^{-11} M$ 4) $1.26 \times 10^{-15} M$	Т
1) $1.26 \times 10^{-5} M$ 2) $1.6 \times 10^{-9} M$ 3) $1.6 \times 10^{-11} M$ 4) $1.26 \times 10^{-15} M$	
74. A non-stoichiometric compound $Cu_{1,8}S$ is formed due to the incorporation of Cu^{2+} ions in	the
lattice. What is the mole percentage of Cu^{2+} present in the compound? 1) 88 88 2) 89 8 3) 63 5% 4) 11 11	
75. At low pressure and high temperature, the Van der Waals equation is finally reduced	
(simplified) to 1) $\left(p + \frac{a}{b}\right)(V - b) = RT$ 2) $p(V - b) = RT$	
$= \int \left(\frac{r}{r} \cdot \frac{V_m^2}{V_m} \right)^{C_m} = \int \frac{r}{r} \cdot \frac{r}{m} \cdot \frac{r}{r}$	
3) $\left(p + \frac{a}{V_m^2}\right)V_m = RT$ 4) $pV_m = RT$	
76. Zinc and hydrochloric acid react according to the following reaction: $Zn(s) + 2HCl(aa) \rightarrow ZnCl_{2}(aa) + H_{2}(ab)$	
If 0.30 mole of Zn is added to 0.52 mole HCl, how many moles of H_2 is produced?	
1) 0.2 2) 0.6 <mark>2 3) 0.6</mark> 4) 0.26	
77. In a reaction, $Cr_2O_7^{2-}$ is reduced to Cr^{3+} . What will be concentration of 0.1 M $K_2Cr_2O_7$ in	
equivalent per litre?	
$Cr_2O_7^- + 14H^+ + 6e^- \rightarrow 2Cr^{3+} + 7H_2O$	
1) 0.9 N 2) 0.6 N 3) 0.3 N 4) 0.2 N 78 A gaseous mixture of 2 moles of A 3 moles of B 5 moles of C and 10 moles of D is	
contained in a vessel. Assuming that gases are ideal and the partial pressure of C is 1.5 a	tm,
total pressure is	
1) 3 atm 2) 6 atm 3) 9 atm 4) 15 atm	
79. In which of the following options chlorine will act as the best leaving group	
	3
1) CH Cl 2) CH CH Cl 2) $H-C-Cl$ () CH_3-CH_2-C-Cl	Cl
1) $CH_3 - Cl$ 2) $CH_3 - CH_2 - Cl$ 3) + 4) (H	3
80. A compound of variation chloride has spin only magnetic moment of 1.73 Bm. Its formu	la
1) VCl_2 2) VCl_5 3) VCl_4 4) VCl_3	
81. The following equilibrium constants are given;	
$N_2 + 3H_2 \square 2NH_3; K_1$	
$N_2 + O_2 \Box 2NO; K_2$	
$H_2 + \frac{1}{2}O_2 \Box H_2O; K_3$	
The equilibrium constant for the oxidation of 2 mole <i>NH</i> , by oxygen to give NO is	
1) $\frac{K_2 K_3^2}{K_1}$ 2) $\frac{K_2^2 K_3}{K_2}$ 3) $\frac{K_1 K_2}{K_2}$ 4) $\frac{K_2 K_3^3}{K_1}$	
1) $\frac{K_2 K_3^2}{K_1}$ 2) $\frac{K_2^2 K_3}{K_3}$ 3) $\frac{K_1 K_2}{K_3}$ 4) $\frac{K_2 K_3^3}{K_1}$ 82. Which of the following will not show geometrical isomerism?	
1) $\frac{K_2 K_3^2}{K_1}$ 2) $\frac{K_2^2 K_3}{K_3}$ 3) $\frac{K_1 K_2}{K_3}$ 4) $\frac{K_2 K_3^3}{K_1}$ 82. Which of the following will not show geometrical isomerism? 1) $[Co(ox)_3]^{3-}$ 2) $[Co(en)_2 Cl_2]Cl$ 3) $[Cr(NH_3)_4 Cl_2]Cl$	
1) $\frac{K_2 K_3^2}{K_1}$ 2) $\frac{K_2^2 K_3}{K_3}$ 3) $\frac{K_1 K_2}{K_3}$ 4) $\frac{K_2 K_3^3}{K_1}$ 82. Which of the following will not show geometrical isomerism? 1) $[Co(ox)_3]^{3-}$ 2) $[Co(en)_2 Cl_2]Cl$ 3) $[Cr(NH_3)_4 Cl_2]Cl$	



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92.	1) -196 kJ Which of the follo i. Melting point c	2) -494 kJ owing statements is of alkane increases v	3) 146 kJ s/are correct? vith increase in numb	per of C atoms an	4) -98 kJ d with increase
	in branching. ii. Boiling point c branching. iii. Cycloalkanes atoms. iv. Alkenes have 1) (I), (II)	of alkane increases v have lower boiling lower boiling point 2) (I), (II), (III)	vith increase in numb point than normal all than same number o 3) (III), (IV)	per of C atoms bu kane with same r f C atoms in alka)	t with decrease in number of C nes. 4) (IV)
93.	The binding ener	gy of an element is	64 MeV. If Binding en	ner <mark>gy/nucl</mark> eon is	6.4, then the
94.	number of nucleo 1) 10 Consider the following $5Br^{-}(aa) + BrQ^{-}(aa)$	ons are 2) 64 owing reaction in ac $a_1 + 6H^+(a_2) \rightarrow 3Br. (a_3)$	3) 16 queous solution $a_1 + 3H_{*}O(l)$		4) 6
95.	If the rate of apprix is the rate of disa 1) $0.025 M \text{ sec}^{-1}$ The rate constant	earance of Br_2 at a properties of Br_2 at a properties of M sec 2) 0.042 M sec ⁻¹	articular time during c ⁻¹) of <i>Br</i> ⁻ at that time 3) 0.075 <i>M</i> is double the rate con	the reaction is 0. ? sec ⁻¹ nstant (k") of ano	025 $M \sec^{-1}$, what 4) 0.125 $M \sec^{-1}$ ther reaction.
	Then the relation $(E_a and E_b)$ will be (Assume the pre-	ship between the co - exponential factor o	orresponding activations with the second sec	on energies of the	e two reactions
	1) $E_{a}' > E_{a}''$	2) $E_{a}^{'} = E_{a}^{''}$	3) $E_{a}^{'} < E_{a}^{''}$		4) $E_{a}^{'} < 4E_{a}^{"}$
96.	Which of the follow	wing is not a greenho	use gas?		
	(1) CF_2Cl_2	(2) CH_4	$(3) NO_2$	$(4) CO_2$	
97.	Two liquids A and	B are mixed in a ratio	o of 2 : 3. If $P_A^0 = 100$ n	nmHg and $P_B^0 = 30$	0 mmHg, then
	the mole fraction of $(1) 2/11$	of A in vapour phase v (2) 2/5	(3) 3/5	(4) 10/11	
98.	Reduction electro	de potential of hydrog	en electrode having pH	I = 4 will be	
99.	(1) 0.236 V If aqueous solution liberated is (Atomi	(2) -0.236 V n of CuCl ₂ is electroly c mass of Cu = 63.5 u	(3) – 0.059V ysed by 9.65 A current 1 1)	(4) 0.059 V for 1000 seconds t	hen mass of Cu
100.	(1) 0.635 g If, at $t = 30$ sec, [A at $t = 40$ sec, [A] =	(2) 6.35 g] = 100 moles/L, 80 moles/L	(3) 0.3175 g	(4) 3.175 g	
	at $t = 50$ sec, $[A] =$ for a reaction, $A =$	64 moles/L A = 64 moles/L A = B, the order will be	2		
	(1) 1	(2) 2	(3) 3	(4) Zero	
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	Column I		Column II
a.	Golgi apparatus	i)	Helps in spindle formation
b.	Ribosomes bound to ER	ii)	Synthesis and storage of fats
c.	Microtubules	iii)	Secretory proteins
d.	Spherosomes	iv)	Helps in pseudopodia formation
		v)	Acrosome of sperms

- 1) a (i), b (ii), c (iv), d v
- 2) a (v), b (iii), c (i), d (ii)
- 3) a (v), b (iii), c (iv), d (ii)
- 4) a (iv), b (iii), c (v), d (ii)
- 110. The type of chlorophyll present in Phaeophyceae is
 - 1) chlorophyll a and chlorophyll e
 - 2) chlorophyll a and chlorophyll c
 - 3) chlorophyll a and chlorophyll d
 - 4) chlorophyll a and chlorophyll b

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meritroc STRONG ROOTS CREATE 111. Enzymes which are slightly different in molecular structure but can perform identical activity are called 1) Isoenzymes 2) Holoenzymes 3) Apoenzymes 4) Coenzymes Culturing of shoot apex as explants on nutrient medium in tissue culture gives to disease free plants 112. because 1) Such an explant contains secondary metabolites 2) It contains toxins that prevent growth of another organism 3) Such explants are pathogen free 4) Sterilization kills all pathogens 113. Which one of the following structures is not common to mitotic cells of higher plants? 1) cell plate 2) centriole 3) centromere 4) spindle fibres To study any kind of genetic abnormality arising due to change is chromosome number, the 114. karyotype is prepared. Which of the following stages is most suitable to develop a karyotype? 2) telophase 3) anaphase 4) prophase 1) metaphase 115. The names of Schleiden and Schwann are associated with 1) Protoplasm as the physical basis of life 2) cell theory 3) theory of cell lineage 4) nucleus functions as control center of cell If the gene of interest is inserted at the Bam HI site in pBR322, the recombinant plasmid will 116. 1) Show, ampicillin & tetracycline resistance 2) Show tetracycline resistance 3) Will grow well on tetracycline containing medium 4) Will not grow on tetracycline containing medium In lichens, sexual reproduction is performed by 117. 1) Fungal partner only 2) Algal partner only 3) Fungal and algal partners (both) 4) Either fungal partner or algal partner (not both) What does the filiform apparatus do at the entrance of the ovule? 118. 1) It brings about opening of the pollen tube 2) It helps in the entry of pollen tube into a synergid 3) It prevents entry of more than one pollen tube into the embryo sac 4) It guides pollen tube from a synergid to egg. Which of the following sets of bacteria are found to be very useful in genetic engineering 119. experiments? 1) Nitrosomonas and Klebsiella 2) Rhizobium and Diplococcus 3) *Nitrobacter* and *Azotobacter* 4) Escherichia and Agrobacterium Which one of the following traits of garden pea is a recessive feature? 120. 1) Round seed shape 2) Axial flower position

- 1) Kound seed shape
 2) Axial nowel posit

 3) Groop sood colour
 4) Groop pod colour
- 3) Green seed colour 4) Green pod colour
- 121. Hydrolysis of nucleic acid yields 1) Only sugar 2) I
 - 2) Phosphoric acid only
 - 3) Nitrogenous base only 4) Nitrogenous base, sugar and phosphate
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122. Read the following statements: i) presence of DNA ii) presence of cristae iii) presence of the 70S ribosome iv) Enzyme for carbohydrate synthesis v) site for oxidative phosphorylation How many of the above statements are in common for mitochondria and chloroplast? 1) Two 2) Five 3) Three 4) Three Which of the following statements is correct with respect to Blackman's law of limiting factor? 123. 1) only one factor can be limited in photosynthesis 2) photosynthesis consists of a light and dark reaction 3) the trapping of light by chloroplast is temperature dependent 4) the trapping of light by chloroplast can occur only if CO_2 is present 124. Stirred – tank bioreactors have been designed for: 1) Addition of preservatives to the product 2) Purification of the product 3) Ensuring anaerobic condition in the culture vessel 4) Availability of oxygen throughout the process The enzyme nitrogenase is 125. 1) A Cu – Fe protein 2) Found in prokaryotes only 3) An O_2 requiring enzyme 4) Essential to convert NH_3 to N_2 126. The plant group that produces spores and embryo but lacks vascular tissues and seeds is 1) Pteridophyta 2) Rhodophyta 3) Bryophyta 4) Phaeophyta There are two plants A and B with respective critical photoperiod of 13 hours and 11 hours. When 127. they are exposed to light for a period of 12 hours, it initiated flowering in both. Which of the following conclusions is most appropriate for these plants? 1) Both Plant A and B are long day plants 2) Both plant A and B are short day 3) Plant A is short day plant and plant B is long day plant 4) Plant A is long day plant and plant B is short day plant 128. Phloem Cambium Xylem In which of the following, this kind of vascular bundle can be seen? 1) Dicot stem 2) Monocot stem 3) Dicot leaf 4) Monocot leaf 129. Liberation of oxygen when green cells in water are exposed to sunlight in presence of suitable acceptor is called 1) Arnon's reaction 2) Emerson's enhance effect

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1) Cervical caps – Prevent sperms reaching cervix

2) periodic abstinence – Natural method that avoids chances of ovum and sperms meeting.

3) Cu 375 – Suppress sperm motility and fertilizing capacity of sperms



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	strong roots create Merit
	4) Saheli – prevent ovulation
152.	Snakes and lizards shed their scales as skin cast. It is
	1) Dermis2) Epiderms3) Cornified cells4) None of these
153.	Hyposecretion of steroid hormones from adrenal glands leads to
154	1) Addion's disease 2) Cushing's disease 3) Dwarfism 4) None of the above Which one of the following pairs of food components in humans reaches the stomach totally
134.	undigested?
	1) Protein and starch 2) Starch and fat 3) Fat and cellulose 4) Starch and cellulose
155.	Three levels of biodiversity are
	1) Genetic diversity, species diversity and ecological diversity
	2) Species diversity, ecological diversity and habitat diversity
	3) Geographical diversity, genetic diversity and habitat diversity
156	4) Ecological diversity, species diversity and community diversity
130.	1) P wave 2) ORS complex 3) S wave 4) T wave
157.	Species with small world populations that are not endangered or vulnerable at present, but are at the
	risk are called
	1) Critically endangered 2) Lower risk
	3) Rare 4) Extinct
158.	Emulsification of fat is carried out by
150	1) Pancreatic juice 2) HCl 3) Bile 4) Mucus of intestine
159.	1) Adaptive radiation 2) Seasonal migration 3) Brood parasitism 4) Connecting links
160	In Mongolism each cell has how many chromosomes
100.	1) 21^{st} pair having one less 2) 23^{rd} pair with one less
	3) 45 4) 47
161.	The posterior lobe of the pituitary is called
	1) Glandularhypopysis (2) neurohypophysis (3) Adenohypophysis (4) Vascularhypophysis
162.	Which of the following statement is/are correct with respect to remedy for plastic waste?
	A. Polyblend is a fine mixture of recycled modified plastic
	C. It was due to the collaboration of town people of Arcata and biologists of Humboldt State
	University.
	D. A blend of polyblend and bitumen enhacens bitumen's water – reprellent properties and helps to
	increase road life.
1.00	1) A and B2) A and C3) A and D4) Only A
163.	How many statements are correct?
	a. Diomagnification is the natural ageing of a lake by nutrient enrichment of its water b. After CEC, methane is a major cause of greenhouse effect
	c. Ozone is a secondary pollutant in troposphere
	d. The thickness of the ozone is measured in Dobson unit
	1) a,b 2) only d 3) c, d 4) a,b,c
164.	In mammals growing oocytes are surrounded by special nutritive cells called
	1) Follicle cells 2) Nurse cells
165	3) Follicle cells and nurse cells 4) None of the above
105.	The number of occital condyres in man 1s/are
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	STRONG ROOTS CREATE MERTI
166.	1) one 2) two 3) three 4) four According to Hardy – Weinberg's principle, if allele one is denoted as 'A' and allele two as 'a' and their frequencies are denoted by p and q, and if random mating occurs. The frequency of heterozygous individual would be :
167.	1) 2pq 2) q ² 3) pq 4) p ² Multiple allels control the inheritance of 1) Phonylkotonuria 2) Colour blindness 3) Sickle coll anomia 4) Blood groups
168.	If the birth rate is 100, the death rate is 10 and the number of individuals in a population group is 1000, then what will be the intrinsic rate of natural increase of the population? 1) 900 2) 90 3) 1090 4) 890
169.	Genetically engineered bacteria have been successfully used in the commercial production of1) Human insulin2) Testosterone3) Thyroxine4) Melatomin
170.	 At the neuromuscular junction: 1) The muscle membrane possesses musculariae receptors. 2) The motor nerve endings secrete norepinephine. 3) Curare leads to prolongation of neuromuscular transmission 4) The motor nerve endings secrete acetuabeling.
171.	4) The motor herve endings secrete acetychomie Which one of the following is associated with excretion in amoeba? 1) Endoplasm (2) Mitochondria (3) Contractile vacuole (4) plasma membrane
172.	Peripatus is known as a connecting link because it has the characteristics of both 1) Aves and Fishes 2) Reptiles and Birds 3) Fishes and Amphibians 4) Arthropods and Annelids
173.	Caffeine, amphetamines and cocaine are:
174.	ADH is synthesized byreleased byand acts on 1) Hypothalamus, neurohypophysis, PCT 2) Hypothalamus, neurohypophysis, DCT and collecting duct 3) Hypothalamus, adenohypophysis, PCT
175.	 4) Hypothalamus, denohypophysis, loop of Henle Which of the following statements is correct for the nodes of Ranveir' in nerves? 1) neurilemma is discontinuous 2) Myelin sheath is discontinuous 3) Both neurilemma and myelin sheath are discontinuous 4) Covered by myelin sheath
176.	HIV causes reduction in 1) T – helper cells only 2) All T – cells
177.	 3) B - cells only 4) Both B and T - cells Which of the following is incorrect about Klinefelter's syndrome? 1) A chromosomal disorder 2) Karyotype of 44 + XXY 3) Gynaccompastia 4) Fartile males
178.	3) Gynaccomastia 4) Ferthe males Residual volume is 2) Greater than inspiratory volume 2) Greater than inspiratory volume
179.	 3) Greater than vital capacity 4) Greater than tidal volume The rupture of the Graafian follicle and the release of ovum occurs under the influence of 1) LH 2) FSH 3) MSH 4) CH
180.	A lake with an inflow of domestic sewage rich in organic waste may result in
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- 1) Drying of the lake very soon due to algal bloom
- 2) An increased production of fish due to lot of nutrients
- 3) Death of fish due to lack of oxygen
- 4) Increased complexity of the aquatic food web
- 181. Contraction of diaphragm during inhalation
 - 1) It decreases the volume of the thoracic chamber in the anteroposterior axis
 - 2) It increases the volume of the thoracic chamber in the dorso ventral axis.
 - 3) It increases the volume of the thoracic chamber in the anteroposterior axis
 - 4) It decreases the volume of the thoracic chamber in the dorso ventral axis
- 182. Which of the following is a pair of bacterial diseases?1) Typhoid and Pneumonia2) Malaria and AIDS
 - Typhoid and Pneumonia
 Ringworm and AIDS
- 4) Common cold and Malaria
- 183. In a medicolegal case of accidental interchange between two babies in a hospital, the baby of the blood group –A could not be rightly given to a couple with
 - 1) Husband of O group and wife of AB group
 - 2) Husband of A group and wife of O group
 - 3) Husband of B group and wife of O group
 - 4) Husband of AB group and wife of A group
- 184. Which of the following statement is incorrect w.r.t class cyclostomata?
 - 1) All the members are ectoparasites on some fishes
 - 2) Their body is devoid of scales and paired fins
 - 3) Circulation is of open type
 - 4) They are marine but migrate for spawning to fresh water

185. A type of granulocyte (i) and agranulocyte (ii) are phagocytic cells that destroy foreign organisms entering the body. (iii) secrete histamine, serotonin, heparin, etc., and are involved in inflammatory reactions. (iv) resist infections and are also associated with allergic reactions. (v) are responsible for the immune responses of the body.

1)	
	i)

i)	ii)	iii)	iv)	v)
Monocytes	Neutrophils	Basophils	Eosinophils	Lymphocytes

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)

/ .					
	i)	ii)	iii)	iv)	v)
	Neutrophils	Monocytes	Basophils	Ecosinophi91s	Lymphocytes

3)



			rit	r o				
	i)	ii)	iii)	iv)	v)			
	Neutrophils	Monocytes	Eosinophils	Basophils	Lymphocytes			
	4)i)	ii)	iii)	iv)	v)			
	Monocytes	Neutrophils	Eosinophils	Basophils	lymphocytes			
	-	SE		1				
186.	 Which of the following statement about human population is correct? 1) The world population was around 7.2 billion by 2000. 2) India's population reached close to 1.2 billion by 2000. 3) India's population was approximately 350 million at the time of independence 4) According to the 2011 census report, the population growth rate was more than 2 percent. 							
187.	Which of the following	tissue originates ex	xclusively from the	Ectoderm of the E	mbryo?			
188.	The main function of lacteals in the villi of human small intestine is the absorption of 1) Glucose & vitamins 2) Amino acids & glucose 3) Fatty acids & Glycorol 4) Water and Minoral salts							
189.	39. Sertoli cells are mousishing cells in the testis. They also secrete a hormone. Identify the s							
190.	 Testosterone 2) Gonadotsopin 3) Inhibin 4) Relaxin Coronary heart disease is due to Weakening of the heart values Insufficient blood supply to the heart muscles Streptococcal bacteria 							
191.	 4) Inflammation of per. Match column-I with c Column-I A. Catalytic converter B. Electrostatic precipi C. Ear muffs D. Land fills (1) A - I, B - II, C - II (2) A - II, B - I, C - II (3) A - IV, B - III, C - II (4) A - III, B - II, C - II 	icardiems olumn-II and select Column-II I. Particulate tator II. Carbon m III. High noi IV. Solid wa I, D – IV I, D – IV II, D – I IV, D – I	the correct option. e matter nonoxide and precip ise level astes	pitator nitrogen oxid	des			

Which of the following is the correct set of the labels A, B, C and D in the given figure of maturation 192. of pro-insulin into insulin?

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