fly beyond the sky...

**NEET** | Foundation





## <u>Time: 200 Minute</u>

## <u>M.M. 720</u>

## **ALL INDIA SKY TEST SERIES**

# Pulse Batch – Neet

## Date: 04/09/2023

## SYLLABUS

PHYSICS	CHEMISTRY	BOTANY	ZOOLOGY
Law's of motion	Equilibrium	Biomolecules + The living world	Animal Kingdom + animal tissue

Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.

#### **INSTRUCTIONS:**

This Question paper is divided in to four parts physics, chemistry, botany, zoology and each part is 1. further divided into two sections.

Section -A contains 35 Questions Section B contains 15 questions. Please ensure that the Questions paper you have received contains ALL THE QUESTIONS in each Part.

2. In Section A all the 35 Questions are compulsory and in Section B Contain 15 Question, out of these

15 Questions, candidates can choose to attempt any 10 Questions.

Each Question has four choices (a), (b), (c), (d) out of which only one is correct & Carry 4 marks each 1 mark will be deducted for each wrong answer.

#### **GENERAL INSTRUCTION**

- Use only blue/black pen (avoid gel pen) for darkening the bubble. 1.
- 2. Indicate the correct answer for each question by filling appropriate bubble in your **OMR** answer sheet.
- 3. The answer sheet will be checked through computer hence; the answer of the question must be marked by -shading the circles against the question by dark blue/black pen
- 4. Blank papers, Clipboards, Log tables, Slide Rule, Calculator, Cellular Phones Papers and Electronic Gadgets in any form are **not** allowed to be carried inside the examination hall.

#### Name of the candidate:

Signature of the candidate: \_\_\_\_\_\_Signature of the invigilator: \_\_\_\_

1.

2.

3.

4.

5.

6.



7. The ratio of the weight of a man in a stationary lift and in a lift accelerating downwards with a uniform acceleration 'a' is 3 : 2. The acceleration of the lift is-

(a) g/3 (b) g/2 (c) g (d) 2g

#### SRB PULSE BATCH - NEET / Sky Tutorial / Page No.2

A block of mass m is placed on a smooth wedge of inclination  $\theta$ . The whole system is accelerated horizontally so that the block does not slip on the wedge. The force exerted by the wedge on the block has magnitude-(a) mg (b) mg/cos  $\theta$  (c) mg cos  $\theta$  (d) mg tan  $\theta$ A block of mass m resting on a wedge of angle  $\theta$ as shown in the figure. The wedge is given an acceleration a. What is the minimum value of a so that the mass m falls freely? For the arrangement shown in fig. the tension in the string to prevent it from sliding down is. (b) 6.4 N (d) Zero The coefficient of static friction between the two blocks is 0.363. What is the minimum acceleration of block 1 so that block 2 does not (b) 12 ms<sup>-2</sup> (c) 18 ms<sup>-1</sup> (d) 27 ms<sup>-1</sup> A block slides down an inclined surface of inclination 30° with the horizontal. Starting from rest it covers 8m in the first two seconds. Find the coefficient of kinetic friction between the (b) 0.5 (c) 0.8 (d) 0.2 Two block (A) 2 kg and (B) 5 kg rest one over the other on a smooth horizontal plane. The coefficient of static and dynamic fiction between (A) and (B) is the same and equal to 0.60. The maximum horizontal force that can be applied to (B) in order that both (A) and (B) do not have any relative motion. (a) 42 N (b) 420 N (c) 5.4 N (d) 1.2 N

A block of mass 0.1 kg is pressed against a wall 14. with a horizontal force of 5N as shown in the figure. If the coefficient of friction between the wall and the block is 0.5 then the frictional force acting on the block in Newton will be.  $(g=9.8 \text{ m/s}^2)$ 



- 15. A block of mass 2 kg is lying on a floor. The coefficient of static friction is 0.54. What will be value of frictional force if the applied force is 2.8 N and  $g = 10 \text{ m/s}^2$ . (a) 2.8 Newton (b) 8 Newton (c) Zero (d) 2 Newton
- A simple pendulum is oscillating without 16. damping. When the displacement of the bob is less than maximum its acceleration vector a is correctly shown in



A car is travelling with linear velocity v on a 17. circular road of radius R. If its speed is decreasing at the rate  $a \text{ m/s}^2$ , then the net acceleration will be

(a) $\frac{v^2}{R} + a$	(b) $\frac{v^2}{R} - a$
(c) $\sqrt{\left(\frac{v^2}{R}\right)^2 + a^2}$	(d) $\sqrt{\left(\frac{v^2}{R}\right)^2 - a^2}$

A simple pendulum of length l is oscillating 18. with amplitude  $\theta$ . At some instant it makes angle  $\theta$  with the vertical, its speed of the bob is v. The acceleration of bob will be (a)  $g \sin \theta$ (b) g tan θ 2

(c) 
$$\sqrt{(g\sin\theta)^2 + \left(\frac{v^2}{1}\right)}$$
  
(d)  $\frac{v^2}{1}$ 

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A mass is supported on a frictionless horizontal 19. surface. It is attached to a string and rotates about a fixed centre at an angular velocity  $\omega_0$ . If the length of the string and angular velocity are double, the tension in the string which was initially T<sub>0</sub> is now

(a) 
$$T_0$$
 (b)  $\frac{T_0}{2}$  (c)  $4 T_0$  (d)  $8 T_0$ 

20. A horizontal force of 10 N is necessary to just hold a block stationary against a wall. The coefficient of friction between the block and the wall is 0.2. the weight of the blocks is (assume acceleration due to gravity to be  $10 \text{ m/s}^2$ )



A 60 kg body is pushed with just enough force to start it moving across a floor and the same

force continues to act afterwards. The coefficient

of static friction and sliding friction are 0.5 and 0.4 respectively. The acceleration of the body is

A body moving along a circular path of radius R with velocity v has centripetal acceleration a. If its velocity is made equal to 2v, then its

A particle is moving in a horizontal circle with

A body of mass 5 kg is moving in a circle of radius 1 m with an angular velocity of 2

A man is standing on a rough ( $\mu = 0.5$ )

horizontal disc rotating with constant angular

velocity of 5 rad/sec. At what distance from

centre should he stand so that he does not slip

(c) 30 N

(b) R > 0.2 m

(d) R > 0.3 m

(b)  $4.9 \text{ m/s}^2$ 

(c)  $\frac{a}{4}$  (d)  $\frac{a}{2}$ 

(b) Acceleration

(d) Displacement

(d) 40 N

(d)  $1 \text{ m/s}^2$ 

(acceleration due to gravity =  $10 \text{ m/s}^2$ ):

(d) 100 N



(b) 20 N

centripetal acceleration is :

(b) 2a

constant speed. It has constant.

rad/sec. The centripetal force is :

(b) 20 N

(a) 2 N

(a)  $6 \text{ m/s}^2$ 

(a) 4a

(a) Velocity

(a) 10 N

on the disc?

(a)  $R \le 0.2 m$ 

(c) R > 0.5 m

(c) Kinetic energy

(c)  $3.92 \text{ m/s}^2$ 

21.

22.

23.

24.

25.

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26.	A coin placed on a rotating turn-table slips, when it is placed at a distance of 9 cm from the centre, if the angular velocity of the turn-table is trippled. It will just slip, if its distance from the centre is: (a) 27 cm (b) 9 cm (c) 3 cm (d) 1 cm	34.	<ul><li>Which of the following statement is false for a particle moving in a circle with a constant angular speed?</li><li>(a) the velocity vector is tangent to the circle</li><li>(b) the acceleration vector is tangent to the circle</li><li>(c) the acceleration vector points to the centre of the circle</li></ul>
27.	The velocity and acceleration vectors of a particle undergoing circular motion are $\vec{v} = 2\hat{i} \text{ m/s}$ and $\vec{a} = 2\hat{i} + 4\hat{j} \text{ m/s}^2$ respectively at an instant of time. The radius of the circle is : (a) 1 m (b) 2 m (c) 3 m (d) 4 m	35.	<ul> <li>(d) the velocity and acceleration vector are perpendicular to each other</li> <li>In a circular motion of a particle, the tangential acceleration of the particle is given by at = 9 ms<sup>-2</sup>. The radius of the circle is 4 m. The particle was</li> </ul>
28.	If $a_r$ and $a_t$ represent radial and tangential accelerations, the motion of a particle will be uniformly circular if : (a) $a_r = 0$ and $a_t = 0$ (b) $a_r = 0$ but $a_t \neq 0$ (c) $a_r \neq 0$ and $a_t = 0$ (d) $a_r \neq 0$ and $a_t \neq 0$		initially at rest. Time after which total acceleration of the particle makes an angle $45^{\circ}$ of with the radial acceleration is. (a) $\frac{1}{3}$ S (b) $\frac{5}{3}$ S (c) $\frac{2}{3}$ S (d) $\frac{4}{3}$ S SECTION -B
29.	A car is moving with speed 30 m/sec on a circular path of radius 500 m. Its speed is increasing at the rate of 2 m/sec <sup>2</sup> . What is the acceleration of the car? (a) 2m/sec <sup>2</sup> (b) 2.7 m/sec <sup>2</sup> (c) 1.8 m/sec <sup>2</sup> (d) 9.8 m/sec <sup>2</sup>	36.	A particle of mass m describes a circle of radius r, if centripetal acceleration of the particle is $4/r^2$ . Then momentum of the particle is. (a) $\frac{4m}{r}$ (b) $\frac{2m}{r}$ (c) $\frac{4m}{\sqrt{r}}$ (d) $\frac{2m}{\sqrt{r}}$
30.	A particle moves in a circular path of radius 25 cm at two revolutions per second. The acceleration of the particle in $m/s^2$ is : (a) $\pi^2$ (b) $8\pi^2$ (c) $4\pi^2$ (d) $2\pi^2$	37.	A point on the periphery of a rotating disc has its acceleration vector making an angle $30^{\circ}$ with the velocity vector. Then, the ratio of the magnitude of centripetal acceleration to the tangential acceleration is
31.	A particle moves in a circle of radius 0.5m at a speed that uniformly increases. Find the angular acceleration of particle if its speed changes from 2 m/s to 4 m/s in 4 seconds? (a) $1 \text{ rad/s}^2$ (b) $2 \text{ rad/s}^2$ (c) $4 \text{ rad/s}^2$ (d) $0 \text{ rad/s}^2$	38.	For a particle moving along a circular path, the radial acceleration $a_r$ is proportional to time t. If $a_t$ is the tangential acceleration, then which of the following will be independent of time t?
32.	A body moves along an uneven horizontal road with a constant speed at all points. The normal reaction of the road on the body- (a) maximum at A (b) maximum at B (c) minimum at C (d) same at A, B and C	39. 40.	(a) $a_t$ (b) $a_r a_t$ (c) $\frac{a_r}{a_t}$ (d) $a_r (a_t)^2$ The angular position of line of a disc of radius $r = 6$ cm is given by $\theta = 10 - 5t + 4t^2$ rad, the average angular velocity between 1 s and 3 s is. (a) $\pi rads^{-1}$ (b) $11rads^{-1}$ (c) $22rads^{-1}$ (d) $5.5rads^{-1}$ When a particle moves in a circle with uniform
33.	A particle of mass m is fixed to one end of a light spring of force constant k and unstretched length <i>l</i> . The system is rotated about the other end of the spring with an angular velocity $\omega$ , in gravity free space. Then increase in length of the spring will be: (a) $\frac{m\omega^2 1}{k}$ (b) $\frac{m\omega^2 1}{k - m\omega^2}$ (c) $\frac{m\omega^2 1}{k + m\omega^2}$ (d) N.O.T.	41.	<ul> <li>speed</li> <li>(a) Its velocity and acceleration are both constant</li> <li>(b) Its velocity constant but the acceleration changes</li> <li>(c) Its acceleration is constant but velocity changes</li> <li>(d) Its acceleration and velocity both changes</li> <li>A point moves along the circle with the velocity v=t/2. Find the acceleration of the point at the moment when it has covered a quarter circle from the beginning of motion.</li> </ul>

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(a) 
$$\frac{1}{2}\sqrt{\pi^2 + 1}$$
 (b)  $\sqrt{\pi^2 + 1}$   
(c)  $2\sqrt{\pi^2 + 1}$  (d)  $4\sqrt{\pi^2 + 1}$ 

- 42. A flywheel at rest is to reach an angular velocity of 24 rads<sup>-1</sup> in 8 s with constant angular acceleration. The total angle turned through during this interval is
  (a) 24 rad
  (b) 48 rad
  (c) 72 rad
  (d) 96 rad
- 43. A disc initially at rest, is rotated about its axis with uniform angular acceleration. In the first 2s, it rotates an angle  $\theta$ . In the next 2s, the disc rotates through an angle (a)  $\theta$  (b)  $2\theta$  (c)  $3\theta$  (d)  $4\theta$
- 44. A body is projected with an initial velocity (aî + bĵ) ms<sup>-1</sup>. If the range of the projectile is double of the maximum height reached by it then.
  (a) a = 2b
  (b) b = 4a
  (c) b = 2a
  (d) b = a
- 45. Two bodies thrown from the same point at angles  $30^{\circ}$  and  $60^{\circ}$  with the horizontal attain the same height. The ratio of their initial velocities is: (a) 1 : 1 (b) 2 : 1 (c)  $\sqrt{3}$  : 1 (d) 1 : 3
- 46. The projectile is thrown at an angle  $\beta$  with the vertical. It reaches a maximum height H. The time taken to reach the highest point of its path is:
  - (a)  $\sqrt{\frac{H}{g}}$  (b)  $\sqrt{\frac{2H}{g}}$  (c)  $\sqrt{\frac{H}{2g}}$  (d)  $\sqrt{\frac{2H}{g\cos\beta}}$
- 47. The equation of the projectile is  $y = \sqrt{3}x \frac{gx^2}{2}$ . The angle of projection is:
  - (a)  $\tan \theta = \frac{1}{\sqrt{3}}$  (b)  $\tan \theta = \sqrt{3}$ (c)  $\pi/2$  (d) Zero
- 48. For a projectile, the angle of projection is 30°, then how many times is the horizontal range larger than the maximum height:
  (a) 2 (b) 3 (c) 3√3 (d) 4√3
- 49. A body is projected vertically upwards. The time corresponding to height 'h' while ascending and descending are t<sub>1</sub> and t<sub>2</sub> respectively. Then the velocity of projection is:
  ( g= A celeration due to gravity)

2

(g = Acceleration due to gravit  
(a) 
$$g \frac{\sqrt{t_1 \cdot t_2}}{2}$$
 (b)  $\frac{g(t_1 - t_2)}{4}$   
(c)  $gt_1 + t_2$  (d)  $\frac{1}{4}$ 

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50. Two stones are projected with the same velocity in magnitude but make different angles with the horizontal. Their ranges are equal. If the angle of projection of one is  $\pi/3$  and the maximum height is y<sub>1</sub>, then the maximum height of the other will be.

(a) 
$$3y_1$$
 (b)  $2y_1$  (c)  $\frac{y_1}{2}$  (d)  $\frac{y_1}{3}$ 

#### CHEMISTRY

#### SECTION - A

- 51. Which of the following statements are correct regarding Arrhenius theory of acid and base?
  - (a) This theory was applicable to only aqueous solutions
  - (b) This theory was applicable to all solutions
  - (c) This theory could not explain the basicity of substances like ammonia which do not possess a hydroxyl group
  - (d) Both (a) and (c)

52.  $BF_3$  is an acid according to

- (a) Arrhenius concept
- (b) Bronsted-Lowry concept
- (c) Lewis Concept
- (d) Both (b) and (c)
- 53. Which of the following can act as both Bronsted acid and Bronsted base?
  - (a) Na<sub>2</sub>CO<sub>3</sub> (b) OH<sup>-</sup> (c) HCO<sub>3</sub> (d) NH<sub>4</sub><sup>+</sup>
- 54. Which one of the following is the correct statement?
  - (a)  $HCO_3^-$  is the conjugate base of  $CO_3^{2-}$
  - (b)  $NH_2^-$  is the conjugate acid of  $NH_3$
  - (c)  $H_2SO_4$  is the conjugate acid of  $HSO_4^-$
  - (d)  $NH_3$  is the conjugate base of  $NH_2^-$

55. Three reactions involving H<sub>2</sub>PO<sub>4</sub><sup>-</sup> are given below:
(i) H<sub>3</sub>PO<sub>4</sub> + H<sub>2</sub>O → H<sub>3</sub>O<sup>+</sup> + H<sub>2</sub>PO<sub>4</sub><sup>-</sup>
(ii) H<sub>2</sub>PO<sub>4</sub><sup>-</sup> + H<sub>2</sub>O → HPO<sub>4</sub><sup>2-</sup> + H<sub>3</sub>O<sup>+</sup>
(iii) H<sub>2</sub>PO<sub>4</sub><sup>-</sup> + OH<sup>-</sup> → H<sub>3</sub>PO<sub>4</sub> + O<sup>2-</sup>
In which of the above does H<sub>2</sub>PO<sub>4</sub><sup>-</sup> act as an

- acid? (a) (ii) only (c) (iii) only (d) (i) only
- 56. The pH of a  $10^{-3}$ MHCl solution at 25°C if it is diluted 1000 times, will be (a) 3 (b) zero (c) 5.98 (d) 6.95

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57.	Which solution has pH equal to 10? (a) $10^{-4}$ MKOH (b) $10^{-10}$ MKOH	65.	Which of the follow buffer?	ing pairs constitutes a
	(c) $10^{-10}$ MHCl (d) $10^{-4}$ MHCl		(a) NaOH and NaCl (c) HCl and KCl	(b) HNO <sub>3</sub> and NH <sub>4</sub> NO <sub>3</sub> (d) HNO <sub>2</sub> and NaNO <sub>2</sub>
58.	A weak acid, HA, has a $K_a$ of $1.00 \times 10^{-5}$ . If 0.100 mole of this acid dissolved in one litre of water, the percentage of acid dissociated at equilibrium is closet to	66.	The buffering action maximum when its pF (a) 5 (b) 7	of an acidic buffer is I is equal (c) 1 (d) pK <sub>a</sub>
	(a) 1.00%(b) 99.9%(c) 0.100%(d) 99.0%	67.	The K <sub>sp</sub> for Cr(OH)₃ is of this compound in w	5 $1.6 \times 10^{-30}$ . The solubility rater is :
59.	Equimolar solutions of HF, HCOOH and HCN		(a) $\sqrt[4]{1.6 \times 10^{-30}}$	(b) $\sqrt[4]{1.6 \times 10^{-30} / 27}$
	at 298 K have the values of $K_a$ as 6.8 ×10 <sup>-4</sup> , 1.8×10 <sup>-5</sup> and 4.8×10 <sup>-9</sup> respectively. What is the		(c) $1.6 \times 10^{-30/27}$	(d) $\sqrt{1.6 \times 10^{-30}}$
	observed trend of dissociation constants in successive stages? (a) HE > HCN > HCOOH	68.	pH of a saturated sol The value of solub	lution of Ba(OH) <sub>2</sub> is 12. ility product (K <sub>sp</sub> ) of
	(a) $HF > HCOOH > HCN$ (b) $HF > HCOOH > HCN$ (c) $HCN > HF > HCOOH$		(a) $3.3 \times 10^{-7}$ (c) $4.0 \times 10^{-6}$	(b) $5.0 \times 10^{-7}$ (d) $5.0 \times 10^{-6}$
	(d) HCOOH > HCN > HF		(-)	
60.	The dissociation constant of two acids $HA_1$ and $HA_2$ are $3.14 \times 10^{-4}$ and $1.96 \times 10^{-5}$ respectively. The relative strength of	69.	At 25°C, the solubility $1.0 \times 10^{-11}$ . At which pl precipitating in the fc solution of 0.001 M Ms	r product of Mg(OH) <sub>2</sub> is H, will Mg <sup>2+</sup> ions start prm of Mg(OH) <sub>2</sub> from a g <sup>2+</sup> ions?
	the acids will be approximately (a) 1 : 4 (b) 4 : 1 (c) 1 : 16 (d) 16 : 1		(a) 9 (b) 10	(c) 11 (d) 8
61.	The solubility of AgI in NaI solution is less than that is pure water because: (a) the temperature of the solution decreases (b) solubility product to AgI is less than that of	70.	<ul> <li>Which of the follow correct?</li> <li>(i) In a tribasic</li> <li>(K<sub>a2</sub>, K<sub>a3</sub>) ionization co</li> </ul>	ing statement(s) is/are acid 2 <sup>nd</sup> and 3 <sup>rd</sup> nstants are smaller than
	NaI		the first ionisation ( $K_{a_1}$	)
	(c) due to common ion effect (d) AgI forms complex with NaI		(ii) It is difficult to charged proton from	a negative ion due to
62.	Aqueous solution of ferric chloride is acidic		(a) Both (i) and (ii)	(b) Neither (i) nor (ii) (d) Only (ii)
	(a) ionization (b) polarization	71.	Match the columns	(u) Only (ii)
			Column - I	Column - II
63.	The $pK_a$ of a weak acid, HA, is 4.80. The $pK_b$ of		(A) HClO <sub>4</sub>	(p) Strong base
	a weak base, BOH, is 4.78. The pH of an		(B) HNO <sub>2</sub>	(q) Strong acid
	aqueous solution of the corresponding salt,		(C) $NH_2^-$	(r) Weak base
	BĂ, will be		(D) $HSO_4^-$	(s) Weak acid
	(a) 9.58 (b) 4.79		(a) A-(s), B-(q), C-(p), I	D-(r)
	(c) 7.01 (d) 9.22		(b) A-(q), B-(s), C-(p), I	D-(r)
()	A buffer solution is preserved in which the		(c) A-(r), B-(p), C-(q), I	D-(s)
64.	A buffer solution is prespared in which the concentration of $NH_3$ is 0.30 M and the		(d) A-(s), B-(q), C-(r), I	D-(p)
	concentration of $NH_4$ is 0.20 M. If the	72.	Equal volumes of thre	e acid solutions of pH 3,
	equilibrium constant, $K_b$ for $NH_3$ equals $1.8 \times 10^{-5}$ what is the pH of this colution?		4 and 5 are mixed in a	vessel. What will be the
	$1.0 \times 10^{\circ}$ , what is the pri of this solution?		$\Pi^{+}$ 10n concentration II	n the mixture? (b) $2.7 \times 10^{-4}$ M
	(a) $9.08$ (b) $9.43$ (c) $11.72$ (d) $8.73$		(a) $1.11 \times 10^{-5} M$ (c) $3.7 \times 10^{-3} M$	(d) $1.11 \times 10^{-3}$ M

_		-	
73.	100 mL of 0.04 N HCl aqueous solution ismixed with 100 mL of 0.02 N NaOH solution.The pH of the resulting solution is :(a) 1.0(b) 1.7(c) 2.0(d) 2.3	79.	A reaction $CaF_2 \longrightarrow Ca^{2+} + 2F^-$ is at equilibrium. If the concentration of $Ca^{2+}$ is increased four times, what will be the change in $F^-$ concentration as compared to the initial
74.	Ionisation constant of CH <sub>3</sub> COOH is $1.7 \times 10^{-5}$ if concentration of H <sup>+</sup> ions is $3.4 \times 10^{-4}$ M, then find out initial concentration of CH <sub>3</sub> COOH molecules		concentration of $F^-$ ?(a) $\frac{1}{4}$ times(b) $\frac{1}{2}$ times(c) 4 times(d) 2 times
	(a) $3.4 \times 10^{-4}$ M (b) $3.4 \times 10^{-3}$ M (c) $6.8 \times 10^{-3}$ M (d) $6.8 \times 10^{-4}$ M	80.	A compound whose aqueous solution will have the highest pH
75.	The dissociation constant for acetic acid and HCN at $25^{\circ}$ C are $1.5 \times 10^{-5}$ and		(c) $NH_4Cl$ (d) $NaECO_3$ (c) $NH_4Cl$ (d) $NaHCO_3$
	$4.5 \times 10^{-10}$ respectively. The equilibrium constant for the equilibrium	81.	The solubility of CaF <sub>2</sub> (K <sub>sp</sub> = $3.4 \times 10^{-11}$ ) in 0.1 M solution of NaF would be
	be: (a) $2.0 \times 10^{-5}$ (b) $2.0 \times 10^{-4}$		(a) $3.4 \times 10^{-12}$ M (b) $3.4 \times 10^{-10}$ M (c) $3.4 \times 10^{-9}$ M (d) $3.4 \times 10^{-13}$ M
	(a) $3.0 \times 10^{-10}$ (b) $3.0 \times 10^{-10}$ (c) $3.0 \times 10^{4}$ (d) $3.0 \times 10^{5}$	82.	The precipitate of CaF <sub>2</sub> ( $K_{sp} = 1.7 \times 10^{-10}$ ) is
76.	The solubility product $(K_{sp})$ of the following compounds are given at $25^{\circ}$ C.		obtained when equal volumes of the following are mixed (a) $10^{-4}MGa^{2+}$ ion and $10^{-4}ME^{-}$
	Compound K <sub>sp</sub>		(a) 10 MCa for and 10 MF (b) $10^{-2}MCa^{2+}$ and $10^{-3}MF^{-}$
	$\frac{\text{AgCl}}{1.1 \times 10^{-10}}$		(c) $10^{-5}MC2^{2+}$ and $10^{-3}ME^{-}$
	$\frac{\text{Agr}}{1.0 \times 10^{-10}}$		(d) $10^{-3} M Co^{2+}$ and $10^{-5} M E^{-}$
	A = CO		(d) 10 MCa and 10 MF
	$\frac{\text{Ag}_2\text{CO}_3}{\text{The most soluble and least soluble compounds}}$	82	The pH of a buffer is 6.745. When 0.01 male of
	are respectively	05.	NaOH is added to 1 litre of it, the pH changes
	(a) AgCl and PbCrO <sub>4</sub> (b) AgI and Ag <sub>2</sub> CO <sub>3</sub>	_	to 6.832. Its buffer capacity is
	(c) AgCl and Ag <sub>2</sub> CO <sub>3</sub> (d) Ag <sub>2</sub> CO <sub>3</sub> and AgI		(a) 0.187 (b) 0.115 (c) 0.076 (d) 0.896
77.	The following equilibrium is established when		
	HClO <sub>4</sub> is dissolved in weak acid HF. HF+HClO <sub>4</sub> $\implies$ ClO <sub>4</sub> <sup>-</sup> +H <sub>2</sub> F <sup>+</sup>	84.	What fraction of an indicator Hln is in the basic form at a pH of 6 if $pK_a$ of the indicator is
	Which of the following is correct set of	10	
	conjugate acid base pair?		(a) $\frac{1}{2}$ (b) $\frac{1}{11}$ (c) $\frac{10}{11}$ (d) $\frac{1}{10}$
	(a) HF and HClO <sub>4</sub> (b) HF and $ClO_4^-$		
78	(c) HF and $H_2F^+$ (d) HClO <sub>4</sub> and $H_2F^+$ Which of the following has pH is equal to pear	85.	What is the difference in pH for 1/3 and 2/3 stages of neutralization of 0.1 M CH <sub>3</sub> COOH
70.	about one?		with 0.1 M NaOH? (a) $2 \log 3$ (b) $2 \log (1/4)$
	(a) $100 \mathrm{ml} \frac{\mathrm{M}}{10} \mathrm{HCl} + 100 \mathrm{ml} \frac{\mathrm{M}}{10} \mathrm{NaOH}$		(a) $2 \log 3$ (b) $2 \log (1/4)$ (c) $2 \log (2/3)$ (d) $2 \log 2$
	(b) $55 \mathrm{ml} \frac{\mathrm{M}}{10} \mathrm{HCl} + 44 \mathrm{ml} \frac{\mathrm{M}}{10} \mathrm{NaOH}$		SECTION – B
	(c) $10 \text{ ml} \frac{M}{10} \text{ HCl} + 90 \text{ ml} \frac{M}{10} \text{ NaOH}$	86.	$2A_{(g)} + B_{(g)} \rightleftharpoons Product$
	(d) $75 \text{ ml} \frac{M}{5} \text{ HCl} + 25 \text{ ml} \frac{M}{5} \text{ NaOH}$		If pressure is increased three times of the initial pressure, the velocity of forward reaction will be of the previous velocity:
			(a) 9 times (b) 27 times (c) $\frac{1}{9}$ times (d) $\frac{1}{27}$

87.	For a reversible reaction, the rate constant for the forward and backward reactions are $2.38 \times 10^{-4}$ and $8.15 \times 10^{-5}$ respectively. The equilibrium constant for the reaction is: (a) 0.342 (b) 2.92 (c) 0.292 (d) 3.42	<ul> <li>(b) Under identical conditions of pressure and temperature gases combines and give gaseous products in simple volume ratio.</li> <li>(c) During chemical reactions atoms remains conserved and only pass through rearrangement.</li> <li>(d) Some atoms have some properties including</li> </ul>
88.	The equilibrium $SO_2Cl_2(g) \xrightarrow{SO_2(g)} + Cl_2(g)$ is stained at 25°C in a closed container and an inert gas, helium, is introduced. Which of he following statements is correct? (a) Concentration of SO <sub>2</sub> Cl <sub>2</sub> , SO <sub>2</sub> and Cl <sub>2</sub> do not change. (b) More Cl <sub>2</sub> is formed (c) Concentration of SO <sub>2</sub> is reduced (d) More SO <sub>2</sub> Cl <sub>2</sub> is formed	<ul> <li>(d) Some atoms have some properties including atomic mass</li> <li>94. A certain orbital has no angular nodes and two radial nodes. The orbital is: <ul> <li>(a) 2 s</li> <li>(b) 3 s</li> <li>(c) 3 p</li> <li>(d) 2 p</li> </ul> </li> <li>95. If the Thomson model of the atom was correct then the result of Rutherfords gold foil experiment would have been. <ul> <li>(a) All of the α - particles pass through the gold foil without decrease on speed</li> </ul> </li> </ul>
89.	The reaction $PCl_5(g) \longrightarrow PCl_3(g) + Cl_2(g)$ and $COCl_2(g) \longrightarrow CO(g) + Cl_2(g)$ . At simultaneously in equilibrium in an equilibrium box at constant volume, A few moles of CO(g) are large introduced into the vessel, after some time, the new equilibrium concentration of (a) PCl <sub>5</sub> will remain unchanged (b) Cl <sub>2</sub> will be greater (c) PCl <sub>5</sub> will become less (d) PCl <sub>5</sub> will become greater	<ul> <li>(b) α - particles are deflected over a wide range of angles</li> <li>(c) All α - particles get bounced back by 180°</li> <li>(d) α - particles pass through the gold foil deflected by small angles with reduced speed</li> <li>96. How many electrons are involved in the following redox reaction?</li> <li>Cr<sub>2</sub>O<sub>7</sub><sup>2-</sup> + Fe<sup>2+</sup> + C<sub>2</sub>O<sub>4</sub><sup>2-</sup> → Cr<sup>3+</sup> + Fe<sup>3+</sup> + CO<sub>2</sub> (Unbalanced)</li> <li>(a) 2 (b) 4 (c) 5 (d) 6</li> </ul>
90.	Densities of diamond and graphite are 3.5 and 2.3 g/mL C(diamond) $\longrightarrow$ C (graphite); $\Delta_r H = -1.9 \text{ kJ/mol}$ Favourable conditions for the formation of graphite are: (a) High pressure and low temperature (b) Low pressure and high temperature (c) High pressure and high temperature (d) Low pressure and low temperature	<ul> <li>(d) 3 (b) 4 (c) 5 (d) 6</li> <li>97. Which of the following reactions is an example of a redox reaction?</li> <li>(a) XeF<sub>4</sub> + O<sub>2</sub>F<sub>2</sub> → XeF<sub>6</sub> + O<sub>2</sub></li> <li>(b) XeF<sub>2</sub> + PF<sub>5</sub> → [XeF] + PF<sub>6</sub><sup>-</sup></li> <li>(c) XeF<sub>6</sub> + H<sub>2</sub>O → XeOF<sub>4</sub> + 2HF</li> <li>(d) XeF<sub>6</sub> + 2H<sub>2</sub>O → XeO<sub>2</sub>F<sub>2</sub> + 4HF</li> <li>98. The correct order of the oxidation states of nitrogen in NO, N<sub>2</sub>O, NO<sub>2</sub> and N<sub>2</sub>O<sub>3</sub> is:</li> </ul>
91.	For a reaction, $N_2(g) + 3H_2(g) \rightarrow 2NH_3(g)$ ; identify dihydrogen (H <sub>2</sub> ) as a limiting reagent in the following reaction mixtures. (a) 28 g of N <sub>2</sub> + 6 g of H <sub>2</sub> (b) 56 g of N <sub>2</sub> + 10 g of H <sub>2</sub> (c) 14 g of N <sub>2</sub> + 4 g of H <sub>2</sub> (d) 35 g of N <sub>2</sub> + 8 g of H <sub>2</sub>	<ul> <li>(a) N<sub>2</sub>O &lt; NO &lt; N<sub>2</sub>O<sub>3</sub> &lt; NO<sub>2</sub></li> <li>(b) N<sub>2</sub>O &lt; N<sub>2</sub>O<sub>3</sub> &lt; NO &lt; NO<sub>2</sub></li> <li>(c) NO<sub>2</sub> &lt; NO &lt; N<sub>2</sub>O<sub>3</sub> &lt; NO &lt; NO<sub>2</sub></li> <li>(d) NO<sub>2</sub> &lt; N<sub>2</sub>O<sub>3</sub> &lt; NO &lt; N<sub>2</sub>O</li> <li>(e) NO<sub>2</sub> &lt; N<sub>2</sub>O<sub>3</sub> &lt; NO &lt; N<sub>2</sub>O</li> <li>(f) NO<sub>2</sub> &lt; N<sub>2</sub>O<sub>3</sub> &lt; NO &lt; N<sub>2</sub>O</li> <li>(g) The dark purple colour of KMnO<sub>4</sub> disappears in the titration with oxalic acid in acidic medium. The overall change in the oxidation number of manganese in reaction is:</li> </ul>
92.	The ground state energy of hydrogen atom is 13.6 eV. The energy of second excited state He <sup>+</sup> ion in eV is: (a) $-54.4$ (b) $-6.04$ (c) $-3.4$ (d) $-27.2$	(a) 5 (b) 1 (c) 7 (d) 2 100. For the reaction: $I^- + CIO_3^- + H_2SO_4 \longrightarrow Cl^- + HSO_4^- + I_2$ The incorrect statement(s) in the balanced accuration is care
93.	Amongst the following which is nto postulate of Dalton's atomic theory (a) Matter is formed of indivisible atoms	(a) Stoichiometric coefficient of $HSO_4^-$ is 6. (b) Iodide is oxidized (c) Sulphur is reduced (d) H <sub>2</sub> O is one of the product

101.	BOTANY         SECTION – A         The places where wild animals are kept in protected environment under human care which enable us to learn about their food habits and behaviour is called: <ul> <li>(a) Museum</li> <li>(b) Botanical garden</li> <li>(c) Herbarium</li> <li>(d) Zoological park</li> </ul>	107.	<ul> <li>Taxonomic hierarchy refers to</li> <li>(a) Step-wise arrangement of all categories for classification of plants and animals</li> <li>(b) A group of senior taxonomists who decide the nomenclature of plants and animals</li> <li>(c) A list of botanists or zoologists who have worked on taxonomy of a species or group</li> <li>(d) Classification of a species based on fossil record</li> </ul>
102.	<ul> <li>The term 'Systematics' is derived from:</li> <li>(a) English word 'Systema'</li> <li>(b) Greek word 'Systema'</li> <li>(c) Latin word 'Systema'</li> <li>(d) Hindi word 'Systema'</li> </ul>	108.	In taxonomic hierarchy, which of the following group of taxa will have more number of similarities as compared to other? (a) Anacardiaceae,Convolvulaceae and Poaceae (b) Polymoniales, Poales and Sapindales (c) <i>Solanum, Petunia</i> and <i>Datura</i> (d) Leopard, tiger and lion
103.	<ul><li>Which statement is not correct about keys:</li><li>(a) Keys is applicable only on the plants</li><li>(b) Keys are based on the contrasting characters</li><li>(c) Keys are generally in a pair that is called couplet</li><li>(d) Keys are generally analytical in nature</li></ul>	109.	<ul> <li>Live specimens are used for reference in taxonomic studies in</li> <li>(a) Museum</li> <li>(b) Zoological parks</li> <li>(c) Botanical gardens</li> </ul>
104.	<ul> <li>Identify the correct statements and select the right answer from the given options:</li> <li>I. Growth in living organisms is from inside</li> <li>II. Growth can be taken as characteristic of living systems only under special conditions.</li> <li>III. A dead organisms also grows.</li> <li>IV. Mountain, boulders and sand mounds never grow <ul> <li>(a) Only I &amp; II</li> <li>(b) Only III &amp; IV</li> <li>(c) Only II &amp; III</li> <li>(d) Only I &amp; IV</li> </ul> </li> </ul>	110. 111.	<ul> <li>(d) More than one option is correct</li> <li>Which of the following is not a result of cell division?</li> <li>(a) Growth (b)Repair</li> <li>(c) Metabolism (d)Reproduction</li> <li>Which of the following is incorrect for reproduction?</li> <li>(a) Unicellular organisms reproduce by cell – division</li> </ul>
105.	Order polymoniales includes plant family: (a) Convolvulaceac, Solanaceae (b) Convolvulaceae, Malvaceae (c) Malvaceae, Liliaceae (d) Liliaceae, Poaceae	NU Y	<ul> <li>(b) Reproduction is a characteristic of all living organisms</li> <li>(c) In unicellular organisms, reproduction and growth are linked together</li> <li>(d) Non - living objects are incapable of reproducing</li> </ul>
106.	<ul><li>Find the incorrect statement from the following:-</li><li>(a) Family is a group of related genera with still less number of similarities as compared to genus and species.</li><li>(b) Lion, tiger, leopard and cat belong to the same genus.</li><li>(c) Systematics takes into account evolutionary relationship between organisms.</li><li>(d) Taxonomic aids are prime source for taxonomy, systematics, and future studies.</li></ul>	112.	<ul> <li>Mark the incorrect statement w.r.t. metabolism</li> <li>(a) Microbes exhibit the metabolism</li> <li>(b) It is the property of all living forms</li> <li>(c) The metabolic reactions can be demonstrated <i>in vitro</i></li> <li>(d) It is not a defining feature of life forms</li> </ul>

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113.	<ul> <li>Which of the following is incorrect w.r.t. binomial nomenclature?</li> <li>(a) Biological names are generally in Latin</li> <li>(b) The first word in a biological name represents the genus</li> <li>(c) Biological names are printed in italics</li> <li>(d) The first word of the genus starts with a small letter</li> </ul>	118.	<ul> <li>Herbarium consists of</li> <li>(a) Collection of living plants</li> <li>(b) Collection of plant and animal specimens preserved in the containers</li> <li>(c) Preserved insects in boxes after collecting killing and pinning</li> <li>(d) Herbarium sheets carrying dried, pressed and preserved plant specimens on them</li> </ul>
114.	<ul> <li>What do A, B and C represent in the give scientific name respectively? <i>Mangifera</i> indica Linn</li> <li>C B A</li> <li>(a) Generic name, specific name and author's name</li> <li>(b) Specific name generic name an author's name</li> <li>(c) Author's name, specific name and generic name</li> <li>(d) Generic name, author's name and specific name</li> </ul>	119. 120.	Reproduction is synonymous with growth in (a) Most of the fungi and <i>Planaria</i> (b) Desmids, diatoms, and protozoans (c) Cyanobacteria, fungi and mosses (d) Mosses, algae and hydra Given organisms belongs to how many genera? Wheat, Brinjal, Potato, Lion, Dog, Tiger (a) Three (b) Two (c) Four (d) Five Which cannot be the correct definition of
115.	<ul> <li>Which of the following is incorrect w.r.t. species?</li> <li>(a) A group of individual organisms with fundamental similarities</li> <li>(b) Two different species breed together to produce fertile offsprings</li> <li>(c) Human beings belong to the species <i>sapiens</i></li> <li>(d) <i>Panthera</i> has many specific epithet as <i>tigris</i>, <i>leo</i> and <i>pardus</i></li> </ul>		<ul> <li>(a) Biology is the science of life forms and living processes.</li> <li>(b) Biology the story of life on earth.</li> <li>(c) Biology is the story of arrangement of organisms into groups.</li> <li>(d) Biology is the story of evolution of living organisms on earth.</li> </ul>
116.	<ul> <li>The correct sequence of taxonomic study of a newly discovered organism is</li> <li>(a) First classification then identification, nomenclature and characterisation</li> <li>(b) First identification then classifying</li> <li>(c) First nomenclature then characterisation, identification and classification</li> <li>(d) First characterisation then identification and nomenclature and then classification</li> <li>Which one of the following criteria is/are essential and form the basis of modern taxonomic studies?</li> </ul>	122.	Order Primata and Carivora are placed in the same class, i.e., (a) Hominidae (b) Mammalia (c) Insecta (d) Chordata Potato and brinjal belong to the genus <i>Solanum</i> , which reflects that (a) They belong to single species (b) They are a group of related species (c) They both are morphologically and structurally similar to each other in all respects (d) They can always produce fertile hybrid
	<ul><li>(a) Ecological information of organisms</li><li>(b) Development process</li><li>(c) External and internal structure</li><li>(d) More than one option is correct</li></ul>	124.	Plants belonging to different classes, with a few similar characters are assigned to a category called (a) Phylum (b) Order (c) Division (d) Genus

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125. Animal, Mammals and dogs represent (a) Taxa at different level (b) Taxa at same level (c) Taxa at the level of Genus (d) Taxa at the level of species 126. Herbarium cross breed (a) Contains complete description of plant specimen (b) Is used to conserve live plants (c) may be used to preserve animals (d) Is a store house of collected plant specimens 127. Biological museums (a) Contain animals but not insects (b) Are also set up in school and colleges (c) Preserve only animal specimens (d) Conserve live plants and animals The term 'Systematics' refers to 128. (a) Identification and study of organ system (b) Identification and preservation of plants and animals (c) Diversity of different kinds of organisms and their evolutionary relationship manuals (d) Study of habitats of organisms and their B. Linnaeus classification

#### 129. Isolated metabolic reactions in-vitro are

- (a) Non-living things (b)Living beings
- (c) Living reactions (d)Not possible
- 130. Match the column I with Column II and select the correct option.

Column – I			Column - II
А.	Herbaria	(i)	Ex-situ
			conservation
			strategy
B.	Zoological park	(ii)	Arranged
			according to
			universally
			accepted system of
			classification
C.	Taxonomic key	(iii)	Information of one
			taxon
D.	Monograph	(iv)	Lead
(a) A - (i), B - (ii), C - (iii), D - (iv)			
(b) $A - (ii), B - (i), C - (iv), D - (iii)$			
(a) $A$ (irr) $P$ (iii) $C$ (ii) $D$ (i)			

- (c) A (iv), B (iii), C (ii), D (i)
- (d) A (ii), B (i), C (iii), D (iv)
- 131. Select the incorrectly matched pair with respect to means of asexual reproduction
  - (a) Hydra-Budding
  - (b) Amoeba-Fragmentation
  - (c) Flatworm -Regeneration
  - (d) Fragmentation-Protonema stage of moss

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- 132. Brinjal and potato belong to the same genus Solanum which shows that
  - (a) They have same chromosome number
  - (b) It is a group of related species
  - (c) They are included in a single species
  - (d) They always produce a fertile hybrid when
- 133. Correctly written scientific name of mango is
  - (a) Mangifera indica Linn.
  - (b) Mangifera Indica L.
  - (c) Mangifera indica Linn.
  - (d) Mangifera indica Linn.
- 134. A group of taxa representing same rank of taxonomic hierarchy is
  - (a) Triticum, Poaceae, Poales
  - (b) Cat, Dog, Mammal
  - (c) Mangifera, Anacardiaceae, Sapindales
  - (d) Lion, Tiger, Leopard
- 135. Read the following statements
  - A. Taxonomical aids which provide habitat and distribution of plants found in an area are
  - used binomial system of nomenclature of plants for the first time in Systema Naturae
  - C. Identification is the process of recognising the characteristic features of an organisms
  - D. Set of contrasting characters (in pairs) in a key is called couplet
  - How many of the above statements are correct?
  - (a) One (b) Two (c) Three (d) Four

### SECTION - B

- 136. The enzyme which possess both protein and non – protein part are called.
  - (a) Apoenzymes (b) Cofactros
  - (c) Coenzymes (d) Holoenzyme
- 137. Which of the following is a ribonucleotide? (a) Cytidine monophosphate
  - (b) Cytidylic acid
  - (c) Ribose + cytosine + phosphate
  - (d) All of these
- 138. Biologist describe the protein structure at four levels. Which level described the sequence of amino acids, i.e., the positional information in a protein?
  - (a) Primary structure
  - (b) Secondary structure
  - (c) Tertiary structure
  - (d) Quaternary structure

- 139. Which of the following statement is incorrect?
  - (a) The acid insoluble fraction, has only four types of organic compounds, proteins, polysaccharides nucleic acids and lipids
  - (b) Chemical compounds found in living organisms are of two types, acid soluble and acid insoluble
  - (c) The compounds which are found in the acid insoluble fraction are called imcromolecules
  - (d) The acid soluble pool represents roughly the cytoplasmic composition
- 140. Which of the following is incorrect w.r.t. enzymes?
  - (a) An active site of an enzyme is a pocket into which the substrate fits.
  - (b) Enzymes through their active site, catalyse reactions at a high rate
  - (c) Inorganic catalysts work efficiently at high temperature and high pressure
  - (d) Enzymes retain their catalytic power even at high temperature

#### 141. Mark the incorrect statement.

- (a) Co enzyme are also organic compounds but their association with apoenzyme is only transient
- (b)  $V_{max}$  (maximum velocity) represent that there are no substrate molecules to bind with free enzyme molecule
- (c) Living state is non equilibrium steady state to be able to perform work
- (d) Enzymes eventually bring down the energy barrier making the transition of substrate to product more easy

#### 142. Lecithin is formed by.

- (a) Fatty acid (2) + Phosphoric acid (1) + Ethanolamine
- (b) Fatty acid (2) + Phosphoric acid (1) + Serine
- (c) Fatty acid (3) + Glycerol
- (d) Glycerol (1) + Fatty acid (2) + Phosphoric acid (1) + Choline
- 143. Enzymes that catalyse removal of groups substrates by mechanisms other than hydrolysis leaving double bonds are.



- (a) Ligases(c) Hydrolases
- (b) Lyases (d) Isomerases
- 144. Following are the examples of secondary metabolites except one. Mark the except one (a) Morphing (b) Vinblasting
  - (a) Morphine (b) Vinblastine
  - (c) Lecithin (d) Cellulose

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- 145. Which of the following can't be considered as difference point between nucleotide and nucleoside?
  - (a) Nucleotide is formed through phosphorylation of nucleoside
  - (b) Nucleotide is a compounds formed by the union of nitrogen base, a pentose sugar and phosphate
  - (c) It is acidic in nature
  - (d) Presence of hydrogen bond in its structure
- 146. Inulin is a polymer of
  - (a) One glucose and one fructose molecules
  - (b) Many fructose molecules
  - (c) One glucose and galactose molecules
  - (d) Many N acetylglucosamine molecules
- 147. The structure given below is of



- hase (h)
- (a) A Purine base (b) (c) Adenylate (d)
- (b) Adenosine
  - (d) A pyrimidine base
- 148. Which of the following is the correct set of primary metabolites?(a) Codeine, Lecithin, Carotenoid, Glycerol(b) Cholesteerol, Uridine, Lecithin, Palmitic acid
  - (c) Anthocyanin, Cellulose, Rubber, Morphine
  - (d) Gums, Vinblastin, Cellulose, Codeine
- 149. The backbone of nucleic acid structure is made up of.
  - (a) Peptide bonds (b) Glycosidic bonds
  - (c) Phosphodiester (d) bridges
- 150. Which of the following statement about enzymes is false?
  - (a) Enzymes are catalyst within the cells
  - (b) All the cells of an organisms contain same enzyme
  - (c) Enzymes bring the substances together so that they undergo a reaction
  - (d) Enzymes lower the activation energy of spontaneous reactions in the cell



- (a) Osculum  $\rightarrow$  Spongocoel  $\rightarrow$  Ostia  $\rightarrow$  Exterior
- (b) Ostia  $\rightarrow$  Osculum  $\rightarrow$  Spongocoel  $\rightarrow$  Exterior
- (c) Spongocoel  $\rightarrow$  Ostia  $\rightarrow$  Soculum  $\rightarrow$  Exterior
- (d) Ostia  $\rightarrow$  Spongocoel  $\rightarrow$  Osculum  $\rightarrow$  Exterior
- 153. Identify the organisms A, B and C :



	Α	В	С
(a)	Pleurobrachia	Adamsia	Aurelia
(b)	Aurelia	Adamsia	Pleurobrachia
(c)	Pleurobrachia	Aurelia	Adamsia
(d)	Aurelia	Pleurobrachia	Adamsia

- 154. Read the following statements w.r.t. cnidarians :
  - (i) Cnidarians exhibits tissue level of organisation and are triploblastic
  - (ii) Digestion is extracellular and intracellular
  - (iii) Corals secrete calcium bicarbonate to form a soft skeleton commonly
  - (iv) Corals may harbor some photosynthetic dinoflagellates for taking nutrition
  - (v) They possess a central gastro-vascular cavity with a single opening, mouth on hypostome.

Which of the above statements are correct?

- (a) (i), (iii) (b) (i), (ii), (iii) (c) (ii), (iv), (v) (d) (iii), (iv)
- 155. Identify the structures A and B of Cnidarians and mention their ploidy correctly :



options	Α	В
(a)	Medusa, n	Polyp, n
(b)	Medusa, n	Polyp, 2n
(c)	Medusa, 2n	Polyp, n
(d)	Medusa, 2n	Polyp, 2n

156. 'Sea walnuts' :

- (a) Perform internal fertilization with indirect development
- (b) Perform external fertilization with indirect development
- (c) Both (a) and (b)
- (d) Possess excretory, respiratory, skeletal and circulatory systems

- 157. Flatworms :
  - (a) Are bilaterally symmetrical, triploblastic and coelomate animals with organ-system level of organisation
  - (b) Are dioecious i.e., sexes are separate
  - (c) Have internal fertilization and development is direct
  - (d) Have hooks and suckers in the parasitic forms

## 158. Read the following statement w.r.t. Aschelminthes/Nemathelminthes :

- (i) Development may be direct or indirect
- (ii) Fertilization is internal
- (iii) Females are often shorter than males
- (iv) *Wuchereria* causes elephantiasis or filariasis
- (v) Ascaris possess cuticle which is resistant to the digestive enzymes of host.

Which of the above statements are correct ? (a) (ii), (iii), (iv), (v) (b) (i), (ii), (iv), (v) (c) (i), (ii), (iii) (d) (iii), (iv), (v)

159. Which of the following is true for the organism shown below :

- (a) Exhibits organ system level of body organisation
- (b) Possess bilateral symmetry
- (c) Is triploblastic, metamerically segmented and coelomate animal
- (d) All of the above
- 160. Read the following statements w.r.t. Arthropoda :
  (i) Circulatory system is of open type
  (ii) Error meet be surger and a statement of the statem
  - (ii) Eyes may be compound or simple
  - (iii) Are mostly monoecious(iv) Are mostly viviparous

(v) Development may be4 direct or indirect

- Which of the above statement are correct?
- (a) (ii), (iii), (iv) (b) (i), (ii), (v)
- (c) (iii), (iv), (v) (d) (i), (ii), (iii)
- 161. Match the columns :

Column I	Column II		
A. Gills	(i) King crab		
B. Tracheal system	(ii) Crab, prawn		
C. Book gills	(iii) Butterfly, cockroach		
D. Book lungs	(iv) Scorpion, spider		

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- (a) A = (ii), B = (iii), C = (i), D = (iv)(b) A = (ii), B = (i), C = (iv), D = (iii)(c) A = (iii), B = (ii), C = (i), D = (iv)(d) A = (iv), B = (i), C = (ii), D = (iii)
- 162. <u>How arthropods are different from annelids ?</u>

	Opti	Arthropods	Annelids	
	ons			
	(a)	Closed	Open circulatory	
		circulatory	system	
		system		
	(b)	Chitinous	Chitinous	
		exoskeleton	exoskeleton absent	
		present		
	(c)	Nephridia	Malpighian tubules	
		present	present	
_	(d)	Ventral nerve	Dorsal nerve cord	
		cord		

163. Select the wrong match :

- (a) Sepia (b) Loligo
- Cuttle fish
- Squid
- (c) Dentalium -(d) Chaetopleura -
  - Tusk shell
  - Sea hare
- 164. Which of the following is not a mollusc?(a) Chiton(b) Sea(c) Devil fish(d) Sea fan
- 165. Which of the following is an echinoderm ?
  (a) *Ophiura*(b) *Octopus*(c) *Apis*(d) *Dentalium*
- 166. Water vascular system of echinoderms help in
  - (a) Locomotion
  - (b) Respiration
  - (c) Food transport
  - (d) More than one option is correct

167. Read the following w.r.t. hemichordates :

- (i) Are exclusively fresh water organisms
- (ii) Possess metameric segmentation
- (iii) Body is cylindrical
- (iv) Respiration occur through gills
- (v) Excretion of nitrogenous waste occurs through proboscis gland
- Which of the above statements are correct ?
- (a) (iii), (iv), (v) (b) (i), (ii)
- (c) (i), (iii) (d) (ii), (iv), (v)

- 168. Which of the following is not incorrect for Saccoglossus?
  - (a) Fertilization is internal
  - (b) is dioecious
  - (c) Digestive system is incomplete
  - (d) All of the above

#### 169. Which of the following is incorrect ?

	Non-chordates	Choerdates	
(a)	Heart is dorsal	Heart is ventral	
	(if present)		
(b)	Post and tail is	Post-anal tail is	
	absent	present	
(c)	Central nervous	Central nervous	
	system is	system is dorsal,	
	ventral, solid	hollow and single	
	and double		
(d)	Gill slits are	Pharynx lack gill	
	present	slits	

170. How many of the following represents Urochordates (U) and Cephalochordates (C)

#### Ascidia, Branchiostoma, Salpa, Doliolum

- (a) U = 2, C = 2(b) U = 1, C = 3(c) U = 3, C = 1(d) U = 4, C = 0
- 171. All vertebrates :
  - (a) Are chordates but all chordates are not vertebrates

(b) Lack notochord in embryonic stage but possess it in adult stage

(c) Have heart with two, three or four chambers

(d) More than one option is correct

#### 172. <u>Match the columns</u> :

Column I	Column II		
A. Petromyzon	(i) Sea-horse		
B. Hippocampus	(ii) Hag-fish		
C. Myxine	(iii) Lamprey		
D. Exocoetus	(iv) Flying fish		
(a) $A = (i), B = (iv), C = (iii), D = (ii)$			
(b) $A = (ii), B = (iv), C = (i), D = (iii)$			
(c) $A = (iii), B = (i), C = (iv), D = (ii)$			
(d) $A = (iii), B = (i), C$	= (ii), D $=$ (iv)		

- 173. The tubular parts of nephrons of kidneys and ducts of glands have :
  - (a) Cuboidal epithelium
  - (b) Columnar epithelium
  - (c) Compound epithelium
  - (d) Squamous epithelium

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- 174. Which of the following is true for simple columnar epithelium ?
  - (a) Cells are composed of single layer of tall and slender cells
  - (b) Their nuclei are located at the base
  - (c) These are found in the lining of stomach and intestine and help in secretion and absorption
  - (d) All of the above
- 175. Identify the diagrams of epithelial tissue along with their correct location :



100	(C) $C$				
	Opti	Tissue	Location		
	ons				
	(a)	A = Columnar	Lining of stomach		
		epithelium	and intestine		
	(b)	B = Cuboidal	Ducts of glands		
		epithelium	-		
	(c)	A = Columnar	Lining of stomach		
		ciliated	and intestine		
		epithelium			
	(d)	C = squamous	Walls of blood		
		epithelium	vessels		
76	Eind H	le a ime a surra at un a tale			

176. Find the incorrect match :

	A. Gap Junction	Facilitates cell to cell		
		cytoplasmic		
		communication		
	B. Tight junction	Stops substances leaking		
C		across epithelial tissue		
	C. Adhering	Perform comenting to		
-	junction	keep neighbouring		
		cells together		
	D. Tight junction	For rapid transfer of		
		ions, small /big		
		molecules		

- 177. Which of the following is correct for the most abundant and widely distributed tissue in the body of complex animals
  - (a) It links and supports other tissues or organs
  - (b) In includes blood
  - (c) It is soft and structurally less complex than epithelial tissue
  - (d) More than one option is correct

- 178. The cells of connective tissue secrete fibres of structural proteins, except :
  - (a) Blood
  - (b) Bone (c) Areolar tissue (d) Cartilage
- 179. Adipose tissue :
  - (a) Stores fat and mainly present beneath the skin
  - (b) Is a type of loose connective tissue
  - (c) Possess abundant mast cells
  - (d) More than one option is correct
- Identify A, B, C, D and E, in the areolar tissue 180. given below :



Opti ons	A	В	С	D	Е
( <b>a</b> )	Macro- phage	Fibro- blast	Yellow fibres	Mast cell	Collagen fibres
(b)	Mast cell	Yellow fibres	Macro- phage	Collagen fibres	Fibroblast
(c)	Fibro- blast	Macro- phage	Mast cell	Collagen fibre	Mast cell
(d)	Macro- phage	Fibro- blast	Collagen fibres	Mast cell	Yellow fibres

(d)

- The fibres responsible for the tough resistance 181. properties of tendons are :
  - (a) Collagenous fibres
  - (b) Spindles fibres
  - (c) Elastin fibres
  - (d) Fibrin fibres
- Read the following statements w.r.t. cartilage 182.
  - Cells are enclosed in lacunae (i)
  - (ii) Most of the cartilages in vertebrate embryos are replaced by bones in adults
  - (iii) Matrix is solid, pliable and do not resist compression
  - (iv) Cartilate is a specialised connective tissue
  - (v) White fibrous cartilages are transparent
  - Which of the above statements are incorrect?
  - (a) (i) and (iv) (b) (iii) and (v)
  - (c) (ii) and (iv) (d) (i), (ii) and (iv)

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- The cardiac muscle differs from the skeletal 183. muscle because these are :
  - (a) Voluntary in nature
  - (b) Non-striated
  - (c) Smooth and voluntary
  - (d) Branched and involuntary
- 184. Identify the muscular tissues labeled as A, B and C:





	(C)				
		Α	В	С	
	(a)	Striated	Smooth	Cardiac	
1		muscle	muscle	muscle	
	(b)	Skeletal	Cardiac	Smooth	
		muscle	muscle	muscle	
	(c)	Smooth	Cardiac	Skeletal	
		muscle	muscle	muscle	
	(d)	Cardiac	Smooth	Skeletal	
		muscle	muscle	muscle	

185. Which of the following is contractile protein of muscle? (a) Myosin

- (b) Tubulin
- (c) Tropomyosin
- (d) None of these

#### SECTION - B

186.	Identify X,	Y and Z in	the table g	given below :
	2		· · · · · · · · · · · · · · · · · · ·	

Cyclostomata	Scales and	Х	Vertebral	
	paired fins		column	
	absent		cartilagino	
			us	
Chondrichthyes	Scales and	Y	Cartilagin	
	paired fins		ous	
	present		endoskelet	
			on	
Osteichthyes	Scales and	Circulation		
	paired fins	closed type		
	present			

- (a) X = Circulation closed type, Y = Circulation closed type, Z = Bony endoskeleton
- (b) X = Circulation open type, Y = Circulation closed type Z = Bony endoskeleton
- (c) X = Circulation open type, Y = Circulation open type, Z = Cartilaginous endoskeleton
- (d) X = Circulation closed type, Y = Circulation closed type, Z = Cartilaginous endoskeleton
- 187. Read the flow chart given below and identify A, B, C and D :



	Α	В	С	D
(a)	Lacks jaw	Bears jaws	Apoda	Osteichthyes
(b)	Bears jaw	Lacks jaw	Octapoda	Osteichthyes
(c)	Lacks jaw	Lacks jaw	Tetrapoda	Osteichthyes
(d)	Lacks jaw	Bears jaw	Tetrapoda	Osteichthyes

- 188. Choose the odd one out w.r.t. reptiles:
  - (a) Mostly terrestrial
  - (b) Body covered by scutes
  - (c) Homeotherms
  - (d) Internal fertilization

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189. Identify the correct statement w.r.t. structures marked X and Y in the diagram given below :



- (a) Both X and Y are present throughout the life in Urochordates
- (b) Both X and Y takes part in circulation of water for respiration
- (c) In vertebrates X is replaced by a cartilaginous or bony vertebral column in adults and Y occur only in embryonic stages in higher chordates
- (d) X may be present in few non-chordates but Y is completely absent in them
- 190. Identify the organism and their respective classes correctly :



	(C)					
n	ŝ	Α	В	С		
5	(a)	Scoliodon, Chondrichthyes	Pristis, Cyclostomata	Petromyzon, Osteichthyes		
	(b)	Pristis, Osteichthyes	Scoliodon, Chondrichthyes	Petromyzon, Cyclostomata		
	(c)	Hippocampus, Osteichthyes	Pristis, Chondrichthyes	Scoliodon, Chondrichthyes		
	(d)	Scoliodon, Chondrichthyes	Pristis, Chondrichthyes	Petromyzon, Cyclostomata		

191. Match the following and choose the correct options

A. Adipose tissue	i. Nose
B. Stratified epithelium	ii. Blood
C. Hyaline cartilage	iii. Skin
D. Fluid connective tissue	iv.Fat storage
(a) $A = (i), B = (ii), C = (iii), D = (iii)$	(iv)
(b) $A = (iv), B = (iii), C = (i), D =$	(ii)
(c) $A = (i), B = (iii), C = (ii), D = (ii)$	(i)
(d) $A = (ii), B = (iv), C = (iii), D =$	= (i)

- 192. Read the following statements about the class Amphiba :
  - A tympanum represents the ear (i)
  - (ii) The heart is three chambered with one auricle and two ventricles
  - (iii) Are poikilotherms
  - (iv) Alimentary canal, urinary and reproductive tracts open into a common chamber called cloaca which opens to the exterior
  - (v) Respriration occurs only by lungs, gills and skin has no such role
  - Which of the above statements are correct?

(a) (i), (ii) (b) (i), (iii), (iv)

**Instructions:** 

- (a) If both statement A and B are true and the statement B is the correct explanation of statement A then mark (a)
- (b) If both statement A and B are true but the statement B is not the correct explanation of statement A then mark (b)
- (c) If statement A is true but statement B is false, then mark (c)
- (d) If both statement A and B are false statements then mark (d)

### 193. A: Birds possess moist skin.

B : Birds possess oil glands throughout their body.

- (a) (b) (c) (d)
- 194. A : The duck billed platypus and the spiny anteater, both are egg laying animals yet they are grouped under mammals.

B : Both of them have seven cervical vertebrae and 12 pairs of cranial nerves. (d)

- (a) (b) (c)
- 195. A : Mast cells in the human body release excessive amounts of inflammatory chemical which cause allergic reactions. B : Allergens on reaching the human body stimulate mast cell in certain individuals. (a) (b) (c) (d)
- 196. A : Neuroglia found in brain and spinal cord supports the neurons. B : Approximately 95% of all the brain cells are neuroglial cells. (a) (b) (c) (d)
- 197. Identify (A), (B), (C) in the table given below

Tendon	Ligament						
It is composed of white It is composed							
fibrous tissue	yellow elastic tissue						
А	It is strong and						
	elastic						
The fibroblast lie in	The fibroblast are						

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	almost continuous rows acattered	d						
	В	С						
	(a) A = It is tough and inelastic							
	B = It connects skeletal muscle to bones							
	C = It connects bone to another	er bone						
	<ul><li>(b) A = It is weak and inelastic</li><li>B = It connects skeletal muscles to viscera</li><li>C = It connects a bone to another bone</li></ul>							
	(c) A = It is strong and highly elastic							
	B = It connects skeletal muscles to bone							
	C = It connects a bone to another bone							
	<ul><li>(d) A = It is tough and inelastic</li><li>B = It contains scanty collagen fibres</li></ul>							
	C = It contains abundant colla	gen fibres						
198.	Choose the odd one out from the f	ollowing :						
	Adipose tissue Tendon Ly	mph Bone						
	Neurol 1	mpri, bone,						
	Neural tissue							
	(a) Neural tissue (b) Lymph							
	(c) Adipose tissue (d) Tendon							
100								
199.	Identify (A), (B), (C) and (D) fr	om the table						
	given below.							
-	Bone	Cartilage						
	Matrix is composed of inflexible	А						
	material called ossein							
	Tanuna simon aut annaliauli	D						
	Lacuna gives out canaliculi	B						
	Lacuna gives out canaliculi C	B D						
	Lacuna gives out canaliculi       C       (a) A = Matrix made of inflexible       B = Lacuna passassa canalizu	B D material						
	Lacuna gives out canaliculi C (a) A = Matrix made of inflexible B = Lacuna possesses canalicu	B D material li						
	Lacuna gives out canaliculi         C         (a) A = Matrix made of inflexible         B = Lacuna possesses canaliculi         C = Osteoblast forms chondro         D = Chondrablast form shondro	B D material li cytes						
	Lacuna gives out canaliculi         C         (a) A = Matrix made of inflexible         B = Lacuna possesses canaliculi         C = Osteoblast forms chondro         D = Chondroblast form chondro         (b) A = Matrix is made of form	B D material li cytes rocytes						
	Lacuna gives out canaliculi         C         (a) A = Matrix made of inflexible         B = Lacuna possesses canaliculor         C = Osteoblast forms chondrod         D = Chondroblast form chondrod         (b) A = Matrix is made of flext         called abordation	B D material li cytes rocytes ible material						
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	Lacuna gives out canaliculi         C         (a) A = Matrix made of inflexible         B = Lacuna possesses canaliculi         C = Osteoblast forms chondro         D = Chondroblast form chond         (b) A = Matrix is made of flexicalled chondrin         B = Lacuna lacks canaliculi         C = Osteoblast forms esterement	B D material li cytes rocytes ible material						
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	Lacuna gives out canaliculi         C         (a)       A = Matrix made of inflexible         B = Lacuna possesses canaliculi         C = Osteoblast forms chondro         D = Chondroblast form chondro         D = Chondroblast form chondro         (b)       A = Matrix is made of flexicalled chondrin         B = Lacuna lacks canaliculi       C = Osteoblast forms osteocy         D = Chondroblast forms osteocy       D = Chondroblast forms chondro         (c)       A = Matrix composed of chore         B = Lacuna lacks canaliculi       C = Osteoblast forms chondro	B D material li cytes rocytes ible material tes drocytes idrin						
3	Lacuna gives out canaliculi C (a) A = Matrix made of inflexible B = Lacuna possesses canalicul C = Osteoblast forms chondro D = Chondroblast form chond (b) A = Matrix is made of flexic called chondrin B = Lacuna lacks canaliculi C = Osteoblast forms osteocy D = Chondroblast forms chon (c) A = Matrix composed of chor B = Lacuna lacks canaliculi C = Chondroblast a care	B D material li cytes rocytes ible material tes drocytes idrin						
3	Lacuna gives out canaliculi         C         (a) A = Matrix made of inflexible         B = Lacuna possesses canaliculi         C = Osteoblast forms chondro         D = Chondroblast form chondro         (b) A = Matrix is made of flexicalled chondrin         B = Lacuna lacks canaliculi         C = Osteoblast forms osteocy         D = Chondroblast forms chondro         (c) A = Matrix composed of chord         B = Lacuna lacks canaliculi         (c) A = Matrix composed of chord         B = Lacuna lacks canaliculi         C = Chondroblasts are         abundance	B D material li cytes rocytes ible material tes drocytes idrin present in						
4	Lacuna gives out canaliculi         C         (a) A = Matrix made of inflexible         B = Lacuna possesses canaliculi         C = Osteoblast forms chondrod         D = Chondroblast form chondrod         (b) A = Matrix is made of flex.         called chondrin         B = Lacuna lacks canaliculi         C = Osteoblast forms osteocy         D = Chondroblast forms chondrod         (c) A = Matrix composed of chord         B = Lacuna lacks canaliculi         C = Chondroblasts are abundance         D = Octooblast are present in	B D material li cytes rocytes ible material tes drocytes idrin present in						
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3	Lacuna gives out canaliculi         C         (a) A = Matrix made of inflexible         B = Lacuna possesses canalicul         C = Osteoblast forms chondro         D = Chondroblast form chondro         D = Chondroblast form chondro         (b) A = Matrix is made of flexicalled chondrin         B = Lacuna lacks canaliculi         C = Osteoblast forms osteocy         D = Chondroblast forms chondro         (c) A = Matrix composed of chordro         B = Lacuna lacks canaliculi         C = Chondroblasts are abundance         D = Osteoblasts are present in         (d) A = Matrix composed of ossei         B = Lacuna lacks canaliculi	B D material li cytes rocytes ible material tes drocytes idrin present in abundance n						
4	Lacuna gives out canaliculi         C         (a) A = Matrix made of inflexible         B = Lacuna possesses canaliculi         C = Osteoblast forms chondro         D = Chondroblast form chondro         D = Chondroblast form chondro         (b) A = Matrix is made of flexicalled chondrin         B = Lacuna lacks canaliculi         C = Osteoblast forms osteocy         D = Chondroblast forms osteocy         D = Chondroblast forms chon         (c) A = Matrix composed of chor         B = Lacuna lacks canaliculi         C = Chondroblasts are abundance         D = Osteoblasts are present in         (d) A = Matrix composed of ossei         B = Lacuna lacks canaliculi         C = Lacuna lacks canaliculi	B D material li cytes rocytes ible material tes drocytes idrin present in abundance n						
4	Lacuna gives out canaliculi         C         (a) A = Matrix made of inflexible         B = Lacuna possesses canalicul         C = Osteoblast forms chondrod         D = Chondroblast form chondrod         (b) A = Matrix is made of flex.         called chondrin         B = Lacuna lacks canaliculi         C = Osteoblast forms osteocy         D = Chondroblast forms osteocy         D = Chondroblast forms chondrod         (c) A = Matrix composed of chordrod         B = Lacuna lacks canaliculi         C = Chondroblasts are abundance         D = Osteoblasts are present in         (d) A = Matrix composed of ossei         B = Lacuna lacks canaliculi         C = It grows by the division of	B         D         material         li         cytes         rocytes         ible       material         tes         drocytes         idrin         present       in         abundance         n         f osteoblasts						
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3	Lacuna gives out canaliculi C (a) A = Matrix made of inflexible B = Lacuna possesses canalicu C = Osteoblast forms chondro D = Chondroblast form chond (b) A = Matrix is made of flexi- called chondrin B = Lacuna lacks canaliculi C = Osteoblast forms osteocy D = Chondroblast forms chon (c) A = Matrix composed of chor B = Lacuna lacks canaliculi C = Chondroblasts are abundance D = Osteoblasts are present in (d) A = Matrix composed of ossei B = Lacuna lacks canaliculi C = It grows by the division on D = It grows by the	B         D         material         li         cytes         rocytes         ible       material         tes         drocytes         idrin         present       in         abundance         n         f osteoblasts         division       of						
200	Lacuna gives out canaliculi C (a) A = Matrix made of inflexible B = Lacuna possesses canalicu C = Osteoblast forms chondro D = Chondroblast form chond (b) A = Matrix is made of flex called chondrin B = Lacuna lacks canaliculi C = Osteoblast forms osteocy D = Chondroblast forms chon (c) A = Matrix composed of chor B = Lacuna lacks canaliculi C = Chondroblasts are abundance D = Osteoblasts are present in (d) A = Matrix composed of ossei B = Lacuna lacks canaliculi C = It grows by the division of D = It grows by the chondroblast	B         D         material         li         cytes         rocytes         ible       material         tes         drocytes         idrin         present       in         abundance         n         f osteoblasts         division       of						
200.	Lacuna gives out canaliculi C (a) A = Matrix made of inflexible B = Lacuna possesses canalicu C = Osteoblast forms chondro D = Chondroblast form chond (b) A = Matrix is made of flex: called chondrin B = Lacuna lacks canaliculi C = Osteoblast forms osteocy D = Chondroblast forms chon (c) A = Matrix composed of chor B = Lacuna lacks canaliculi C = Chondroblasts are abundance D = Osteoblasts are present in (d) A = Matrix composed of ossei B = Lacuna lacks canaliculi C = It grows by the division of D = It grows by the division of D = It grows by the chondroblast	B D material li cytes rocytes ible material tes drocytes idrocytes						
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200.	Lacuna gives out canaliculi         C         (a) A = Matrix made of inflexible         B = Lacuna possesses canalicul         C = Osteoblast forms chondro         D = Chondroblast form chond         (b) A = Matrix is made of flexicalled chondrin         B = Lacuna lacks canaliculi         C = Osteoblast forms osteocy         D = Chondroblast forms osteocy         D = Chondroblast forms chond         (c) A = Matrix composed of chord         B = Lacuna lacks canaliculi         C = Chondroblasts are abundance         D = Osteoblasts are present in         (d) A = Matrix composed of ossei         B = Lacuna lacks canaliculi         C = It grows by the division of         D = It grows by the chordroblast         Choose the correct statement :         (a) Blubber of whale is made of a         (b) Both RBC and WBC are for	B         D         material         li         cytes         rocytes         ible       material         tes         drocytes         idrocytes         idipose         tissue         ormed         in						
200.	Lacuna gives out canaliculi         C         (a) A = Matrix made of inflexible         B = Lacuna possesses canaliculi         C = Osteoblast forms chondrod         D = Chondroblast form chondrod         (b) A = Matrix is made of flexicalled chondrin         B = Lacuna lacks canaliculi         C = Osteoblast forms osteocy         D = Chondroblast forms osteocy         D = Chondroblast forms osteocy         D = Chondroblast forms chondrod         (c) A = Matrix composed of chordrod         B = Lacuna lacks canaliculi         C = Chondroblasts are abundance         D = Osteoblasts are present in         (d) A = Matrix composed of ossei         B = Lacuna lacks canaliculi         C = It grows by the division of         D = It grows by the chivision of         D = Statement is made of a         (b) Both RBC and WBC are for         (cartilage	B         D         material         li         cytes         rocytes         ible       material         tes         drocytes         idrocytes         idipose tissue         ormed in the						
200.	Lacuna gives out canaliculi         C         (a) A = Matrix made of inflexible         B = Lacuna possesses canalicul         C = Osteoblast forms chondrod         D = Chondroblast form chondrod         (b) A = Matrix is made of flex.         called chondrin         B = Lacuna lacks canaliculi         C = Osteoblast forms osteocy         D = Chondroblast forms osteocy         D = Chondroblast forms chondrod         (c) A = Matrix composed of chordrod         B = Lacuna lacks canaliculi         C = Chondroblasts are abundance         D = Osteoblasts are present in         (d) A = Matrix composed of ossei         B = Lacuna lacks canaliculi         C = It grows by the division of         D = It grows by the division of         D = It grows by the chondroblast         Choose the correct statement :         (a) Blubber of whale is made of a         (b) Both RBC and WBC are for         cartilage         (c) Bone matrix is hard due to the	B         D         material         li         cytes         rocytes         ible       material         tes         drocytes         idle         present       in         abundance         n         f osteoblasts         division       of         dipose tissue         ormed       in         be       presence						
200.	Lacuna gives out canaliculi C (a) A = Matrix made of inflexible B = Lacuna possesses canalicu C = Osteoblast forms chondro D = Chondroblast form chond (b) A = Matrix is made of flexi- called chondrin B = Lacuna lacks canaliculi C = Osteoblast forms osteocy D = Chondroblast forms chon (c) A = Matrix composed of chor B = Lacuna lacks canaliculi C = Chondroblasts are abundance D = Osteoblasts are present in (d) A = Matrix composed of ossei B = Lacuna lacks canaliculi C = It grows by the division of D = It grows by the chondroblast Choose the correct statement : (a) Blubber of whale is made of a (b) Both RBC and WBC are for cartilage (c) Bone matrix is hard due to the calcium phosphate (b) Matrix composed of carting (c) Matrix composed of carting (c) Bone matrix is hard due to the calcium phosphate	B         D         material         li         cytes         rocytes         ible       material         tes         drocytes         idle         present       in         abundance         n         f osteoblasts         division       of         dipose tissue         ormed       in         he       presence						

## TEST ASSESMENT AND ANALYSIS SHEET

Name......Date ......Date .....

Physics	Marks per question	Total Ques.	Attempted	Unattempted	Correct	Incorrect	Net score
Multiple choice							
questions							
Q. No. (Incorrect)							
Q. No. (Unattempted)							
Chemistry	Marks per question	Total Ques.	Attempted	Unattempted	Correct	Incorrect	Net score
Multiple choice							
questions							
Q. No. (Incorrect)							
Q. No. (Unattempted)							
Biology	Marks per question	Total Ques.	Attempted	Unattempted	Correct	Incorrect	Net score
Multiple choice questions							
Q. No. (Incorrect)							
Q. No. (Unattempted)	Q. No. (Unattempted)						
Total net score							

