Test Series - NEET									
PART TEST - XI/O		TEST CODE PT - XI/01							
Name of the Candidate :		Roll No							
Time : 3 Hours 20 Minutes	Maximum Marks : 720	Date:							
	Syllabus								
PHYSICS : Units & Measurements, Motion in a Straight Line, Motion in a Plane and Laws of Motion CHEMISTRY : Some Basic Concepts of Chemistry, Structure of Atom, Classification of Elements and Periodicity in Properties BOTANY : The Living World, Biological Classification, Plant Kingdom ZOOLOGY : Animal Kingdom, Structural Organisation in Animals									
INSTRUCTIONS									

- 1. Immediately fill in the particulars on this page of the Test Booklet with Blue/Black Ball Point Pen only.
- 2. The test is of 3 hours 20 minutes duration and the test booklet contains 200 Multiple choice questions. Which have four options with a single correct answer.
- 3. This test consists of Physics, Chemistry, Botany and Zoology questions with equal weightage of 180 marks.
- 4. Each question is of 4 marks. For each correct response the candidate will get 4 marks. For each incorrect response,
 1 mark will be deducted from the total score. The maximum marks are 720.
- 5. 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.

	Parts Sections	Physics	Chemistry	Botany	Zoology	Тс	otal
Questions	Section A	35	35	35	35	140	200
	Section B	15	15	15	15	60	200
To Attempt	Section A	35	35	35	35	140	180
	Section B	10	10	10	10	40	100

- 6. Candidates are advised to read all 15 questions in each subject of Section-B before they start attempting the question paper. In the event of a candidate attempting more than ten questions, the first ten questions answered by the candidate shall be evaluated.
- 7. Use Blue/Black Ball Point Pen only for writing particulars/marking responses on OMR Sheet.
- 8. Do not fold or make any stray marks on the Answer Sheet. Rough work is to be done on the space provided for this purpose.

PART-I: PHYSICS

9.

Section-A

1. The dimensional formula of latent heat is:

			[NCERT Page 7]
(1)	$[M^0LT^{-2}]$	(2)	$[MLT^{-2}]$
(3)	$[M^0L^2T^{-2}]$	(4)	$[ML^{2}T^{-2}]$

2. A person travels x distance with velocity v_1 and then x distance with velocity v_2 in the same direction. The average velocity of the person is v, then the relation between $v_1 v_1$ and v_2 will be : [NCERT Page 14]

(1)
$$v = v_1 + v_2$$

(2) $v = \frac{v_1 + v_2}{2}$
(3) $\frac{2}{v} = \frac{1}{v_1} + \frac{1}{v_2}$
(4) $\frac{1}{v} = \frac{1}{v_1} + \frac{1}{v_2}$

3. Given below are two statements :

> Statement (I): The limiting force of static friction depends on the area of contact and independent of materials. Statement (II): The value of kinetic friction is independent of the area of contact and depends on materials. In the light of the above statements, choose the most

appropriate answer from the options given below : [NCERT Page 60]

- Statement I is correct but Statement II is incorrect
- (1)Statement I is incorrect but Statement II is correct (2)
- Both Statement I and Statement II are incorrect (3)
- (4) Both Statement I and Statement II are correct
- A car starts from rest, attains a velocity of 18 kmh⁻¹ with 4. an acceleration of 0.5 ms^{-2} , travels 4 km with this uniform velocity and then comes to halt with a uniform deceleration of 0.2 ms^{-2} . The total time of travel of the car is

[NCERT Page 18] (1) 853 s (2) 800 s (3) 855 s (4) 835 s

- A man of mass 60 kg is in a lift moving down with an 5. acceleration of 1.8 m s^{-2} . The force exerted by the floor on him is [NCERT Page 65] (1) 588 N (2) 480 N (4) 696 N (3) zero
- The angle between velocity and acceleration of a particle 6. describing uniform circular motion is [NCERT Page 42] (2) 45° (1) 180° (3) 90° (4) 60°
- 7. Consider the following statements

If $x = a^n$, then fractional error $\Delta x/x$, is equal to $\left(\frac{\Delta a}{a}\right)$ I.

- The relative error and percentage error truly indicates П. the accuracy of a measurement
- III. Random error can be minimized by taking large number of observations at a time.

Select the correct option

(1) I only	(2) II only
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(4) II and III both (3) I and II both

- 8. The coefficient of static friction between two surfaces depends upon [NCERT Page-60]
 - (1) the normal reaction
 - the nature of surfaces in contact (2)
 - the magnitude of applied force (3)
 - (4) None of these

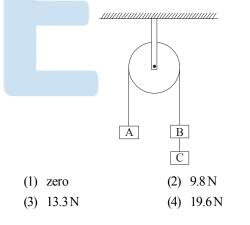
Match List I with List II

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	List – I		List - II	
A.	Surface tension	I.	${\rm Kg}{\rm m}^{-1}{\rm s}^{-1}$	
B.	Pressure	II.	Kg ms ⁻¹	
C.	Viscosity	III.	$\mathrm{Kg}\mathrm{m}^{-1}\mathrm{s}^{-2}$	
D.	Impulse	IV.	Kg s ⁻²	

Choose the correct answer from the options given below:

- (1) A-IV, B-III, C-II, D-I (2) A-IV, B-III, C-I, D-II
- (3) A-III, B-IV, C-I, D-II (4) A-II, B-I, C-III, D-IV
- Three equal weights A, B and C of mass 2 kg each are 10. hanging on a string over a fixed frictionless pulley as shown in the figure. The tension in the string connecting weight B and C is (given, $g = 9.8 \text{ ms}^{-2}$) [NCERT Page 65]



- Dimensions of $\frac{1}{1}$, where symbols have their usual 11. meaning, are $\mu_0 \epsilon_0$ [NCERT Page 7]
 - (1) $[L^{-1}T]$ (2) $[L^{-2}T^2]$
 - (3) $[L^2T^{-2}]$ (4) $[LT^{-1}]$

12. A screw gauge gives the following reading when used to measure the diameter of a wire. Main scale reading: 0 mm Circular scale reading : 52 divisions Given that 1mm on main scale corresponds to 100 divisions

of the circular scale. The diameter of wire from the above data is $(1) 0.052 \,\mathrm{cm}$

- (2) 0.026 cm $(3) 0.005 \,\mathrm{cm}$ (4) 0.52 cm

PT - XI/01

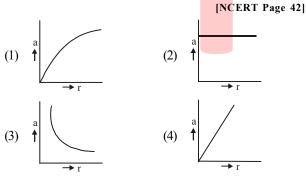
 Given below are two statements : Statement (I) : Planck's constant and angular momentum have same dimensions. Statement (II) : Linear momentum and moment of force

have same dimensions. In the light of the above statements, choose the correct

- answer from the options given below : [NCERT Page 7]
- (1) Statement I is true but Statement II is false
- (2) Both Statement I and Statement II are false
- (3) Both Statement I and Statement II are true
- (4) Statement I is false but Statement II is true
- 14. Projectiles A and B are thrown at angles of 45° and 60° with vertical respectively from top of a 400 m high tower. If their ranges and times of flight are same, the ratio of their speeds of projection v_{A} : v_{B} is:

[Take $g = 10 ms^{-2}$] [NCERT Page 39, 40]

- (1) $1:\sqrt{3}$ (2) $\sqrt{2}:1$
- (3) 1:2 (4) $1:\sqrt{2}$
- 15. An average force of 125 N is applied on a machine gun firing bullets each of mass 10 g at the speed of 250 m/s to keep it in position. The number of bullets fired per second by the machine gun is: [NCERT Page 54] (1) 5 (2) 50 (3) 100 (4) 25
- **16.** If a body moving in circular path maintains constant speed of 10 ms⁻¹, then which of the following correctly describes relation between acceleration and radius?



17. Given below are two statements : one is labelled as Assertion A and the other is labelled as Reason R.

Assertion A : When a body is projected at an angle 45°, it's range is maximum.

Reason R : For maximum range, the value of $\sin 2\theta$ should be equal to one.

In the light of the above statements, choose the **correct** answer from the options given below:

[NCERT Page 39]

- (1) Both A and R are correct but R is NOT the correct explanation of A
- (2) Both A and R are correct R is the correct explanation of A
- (3) **A** is true but **R** is false
- (4) A is false but **R** is true

18. A ball is released from a height h. If t_1 and t_2 be the time required to complete first half and second half of the distance respectively. Then, choose the correct relation between t_1 and t_2 . [NCERT Page 18, 19]

(1)
$$t_1 = (\sqrt{2})t_2$$

(2) $t_1 = (\sqrt{2}-1)t_2$
(3) $t_2 = (\sqrt{2}+1)t_1$
(4) $t_2 = (\sqrt{2}-1)t_1$

- 19. The area of a square is 5.29 cm². The area of 7 such squares taking into account the significant figures is:[NCERT Page 3, 4]
 - (1) 37cm^2 (2) 37.030 cm^2 (3) 37.03 cm^2 (4) 37.0 cm^2

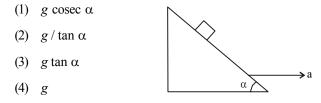
20. A particle has an initial velocity $3\hat{i} + 4\hat{j}$ and an acceleration of $0.4\hat{i} + 0.3\hat{j}$. Its speed after 10 sec is [NCERT Page 37, 38]

- (1) $7\sqrt{2}$ units (2) 7 units
- (3) 8.5 units (4) 10 units
- **21.** If two vectors \vec{A} and \vec{B} having equal magnitude R are inclined at an angle θ , then [NCERT Page 34]

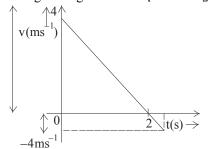
(1)
$$|\vec{A} - \vec{B}| = \sqrt{2} R \sin\left(\frac{\theta}{2}\right)$$
 (2) $|\vec{A} + \vec{B}| = 2 R \sin\left(\frac{\theta}{2}\right)$
(3) $|\vec{A} + \vec{B}| = 2 R \cos\left(\frac{\theta}{2}\right)$ (4) $|\vec{A} - \vec{B}| = 2 R \cos\left(\frac{\theta}{2}\right)$

22. A block is kept on a frictionless inclined surface with angle of inclination ' α '. The incline is given an acceleration 'a' to keep the block stationary. Then *a* is equal to

[NCERT Page 61]



23. Given below is a velocity-time graph for an object in motion along a straight line. [NCERT Page 14,15,16,17]

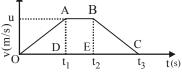


With reference to the above given figure, match the Column I (displacement/distance) with Column II (magnitude) and select the correct answer from the options given below.

4	
∕∎	

24

		Co	lumn	I						Co	olum	n II		
	A.	Th	e dis	tanc	ce c	over	ed		1.	8n	n			
		by	the o	bjec	et ir	tim	e							
		t =	0 s to	o t =	2 s	5.								
	B.	Th	e acc	eler	atic	on of	the		2.	-2	2 ms	-2		
		obj	ect ii	n tin	net	= 0 s	5							
		to t	= 2	s.										
	C.	Th	e disj	plac	em	ent o	of the	e	3.	4n	n			
		obj	ect ii	n tin	ne t	= 0 s	5							
		to t	= 4	s.										
	D.	Th	e dis	tanc	e o	f obj	ect		4.	0				
		in t	ime	t = 0	s to	ot = d	4 s							
		А	В	С	D				А	В	С	D		
	(1)		2					(2)	1	2	3	4		
	(3)	3	2	4	1			(4)	4	2	1	3		
24. 25.	a s atta forc mak The ms ⁻ (1)	trin ched e F i tes ar tens ²) 201	g w ¹ to th s app n ang sion	hose ne w blied le of T is [NC (2)	e o all. 30° : (ER	that t 'with Give T Pag 25 N	en unkn he st the n g	d is fown tring wall. = 10 8, 59] (3)	10 N		(4)	15 N	→ F 5 kg J Dund i	
23.		-		-	-	-						-		
	give	en by	y = y	x – ·	$\frac{x}{20}$. Wh	erey	k and	y aro	eme	asur	ed in	meter	
	The	max	cimu	m h	eig	ht att	aine	d by	the p				be. age 39	P]
	(1)				,			(3)						
26.	The	res	istan	ce I	۲ =	$\frac{V}{I}$	whe	re V	= (2	200	± 5)	V a	nd I =	_
						-							nt of I	
	(1)	3.5	%	(.	2)	5.5%	6	(3)	7%		(4)	3%	, 0	
27.			ocity below		e g	raph	of	the n	notio				y is a e 16,17	
			4	h		•	D							



The total distance travelled by the body during the motion is equal to

(1)
$$\frac{1}{2} (AD + BE) \times OC$$
 (2) $\frac{1}{2} (OA + BC) \times OC$
(2) $\frac{1}{2} (OA + BC) \times OC$

(3)
$$\frac{1}{2}$$
 (OC + AB) × AD (4) $\frac{1}{2}$ (OA + AB) × BC

	cons ratio	e mass are stant centr o of :	ipetal	force, th	neir ve	locities [NC	will be in ERT Page	the 63]
	(1)	1: $\sqrt{3}$	(2)	√ <u>3</u> : 1	(3)	$\sqrt{3}:2$	(4) 2:	/3
29.	y= o resp proj proj resp	trajector $\alpha x - \beta x^2$, we tively the ectile from ection θ as ectively g	where the hor in the ind th iven b	α and β izontal a point o e maxin	are co ind ver f proje num h	nstants a rtical dis ection. T leight at [NC	and x & y tances of The angle tained H ERT Page	are fthe of are
		$\tan^{-1}\alpha$, $\frac{\beta}{\alpha}$ $\tan^{-1}\left(\frac{\beta}{\alpha}\right)$	Р	-		$\tan^{-1}\beta$, $\tan^{-1}\alpha$,-	
	(3)	tun (α)'β		()	tun o.	'4β	
30.	The	equation	n of	state of	a re	al gas	is given	by
		$+\frac{a}{V^2}\Big)(V$						
	univ	ersal gas o	consta	nt. The c	limen	sions of	$\frac{a}{b^2}$ is sim	ilar
	to th	nat of ·				ÍN	CERT Pag	7e 81

28. If the radius of curvature of the path of two particles of

(1) PV Р (3) RT (4) R (2)

31. A boy reaches the airport and finds that the escalator is not working. He walks up the stationary escalator in time t_1 . If he remains stationary on a moving escalator then the escalator takes him up in time t_2 . The time taken by him to walk up on the moving escalator will be: [NCERT Page 14]

(1)
$$\frac{t_1 t_2}{t_2 - t_1}$$
 (2) $\frac{t_1 + t_2}{2}$
(3) $\frac{t_1 t_2}{t_2 + t_1}$ (4) $t_2 - t_1$

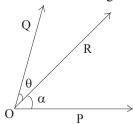
When a car is at rest, its driver sees raindrops falling on 32. it vertically. When driving the car with speed v, he sees that raindrops are coming at an angle 60° from the horizontal. On further increasing the speed of the car to (1 $(+\beta)v$, this angle changes to 45°. The value of β is close to: [NCERT Page 31]

(1) 0.73 (2) 0.41 (3) 0.37 (4) 0.50	(1)	0.73	(2)	0.41	(3) 0.3	7 (4)	0.50	
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- **33.** If force (F), velocity (V) and time (T) are considered as fundamental physical quantity, then dimensional formula of density will be: [NCERT Page 7]
 - (2) FV⁻⁴T⁻² (1) $FV^{-2}T^2$ (3) FV⁴T⁻⁶ (4) $F^2V^{-2}T^6$

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- PT XI/01
- **34.** Two vectors P and Q are inclined at an angle θ and R is their resultant as shown in the figure.

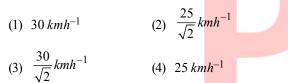


Keeping the magnitude and the angle of the vectors same, if the directions of P and Q are interchanged, then there is a change in which of the following with regard to R?

[NCERT Page 34]

- (1) Magnitude
- (2) Direction
- (3) Both magnitude and direction
- (4) None of the above
- **35.** A girl standing on road holds her umbrella at 45° with the vertical to keep the rain away. If she starts running without

umbrella with a speed of $15\sqrt{2}kmh^{-1}$, the rain drops hit her head vertically. The speed of rain drops with respect to the moving girl is: [NCERT Page 31]



Section-B

- **36.** In an expression $a \times 10^{b}$: [NCERT Page 3, 4]
 - (1) a is order of magnitude for $b \le 5$
 - (2) b is order of magnitude for $a \le 5$
 - (3) b is order of magnitude for $5 < a \le 10$
 - (4) b is order of magnitude for $a \ge 5$
- **37.** Select the incorrect statements from the following.
 - I. Average velocity is path length divided by time interval.
 - II. In general, speed is greater than the magnitude of the velocity.
 - III. A particle moving in a given direction with a nonzero velocity can have zero speed.
 - IV. The magnitude of average velocity is equal to the average speed. [NCERT Page 14]
 - (1) II and III (2) I and IV
 - (3) I, III and IV (4) I, II, III and IV
- 38. The density of a material in SI unit is 128 kg m⁻³. In certain units in which the unit of length is 25 cm and the unit of mass is 50 g, the numerical value of density of the material is: [NCERT Page 2, 3]
 (1) 40
 (2) 16
 (3) 640
 (4) 410

39. A body starts moving from rest with constant acceleration covers displacement S_1 in first (p-1) seconds and S_2 in first p seconds. The displacement $S_1 + S_2$ will be made in time: [NCERT Page 18]

(1)
$$\sqrt{(2p^2 - 2p + 1)s}$$
 (2) $(2p^2 - 2p + 1)s$
(3) $(2p + 1)s$ (4) $(2p - 1)s$

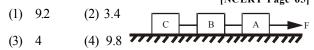
40. The time taken by an object to slide down 45° rough inclined plane is n times as it takes to slide down a perfectly smooth 45° incline plane. The coefficient of kinetic friction between the object and the incline plane is [NCERT Page 60, 61]

(1)
$$\sqrt{\frac{1}{1-n^2}}$$
 (2) $\sqrt{1-\frac{1}{n^2}}$ (3) $1+\frac{1}{n^2}$ (4) $1-\frac{1}{n^2}$

41. A particle is moving along a circular path with a constant speed of 10 ms^{-1} . What is the magnitude of the change in velocity of the particle, when it moves through an angle of 60° around the centre of the circle?

[NCERT Page 63]

- (1) $10\sqrt{3}m/s$ (2) zero (3) $10\sqrt{2}m/s$ (4) 10 m/s
- 42. An expression for a dimensionless quantity *P* is given by $P = \frac{\alpha}{\beta} \log_e \left(\frac{kt}{\beta x} \right); \text{ where } \alpha \text{ and } \beta \text{ are constants, } x \text{ is } distance; k \text{ is Boltzmann constant and } t \text{ is the temperature.}$ Then the dimensions of α will be : [NCERT Page 8] (1) [M⁰L⁻¹T⁰] (2) [ML⁰T⁻²] (3) [MLT⁻²] (4) [ML²T⁻²]
- **43.** A physical quantity Q is found to depend on observables x, y and z, obeying relation $Q = \frac{x^3y^2}{z}$. The percentage error in the measurements of x, y and z are 1%, 2% and 4% respectively. What is percentage error in the quantity Q?
 - (1) 11% (2) 4% (3) 1% (4) 3%
- 44. Select the incorrect statement(s) about static friction.
 - I. Static friction exists on its own.
 - II. In the absence of applied force static friction is maximum.
 - III. Static friction is equal and opposite to the applied force upto a certain limit.
 - IV. Static friction is equal to or less than to limiting friction [NCERT Page 60]
 - (1) I and IV (2) II and III
 - (3) I and III (4) I, II and III
- **45.** Three identical blocks of masses m = 2 kg are drawn by a force F = 10.2 N on a frictionless surface, then what is the tension (in N) in the string between the blocks *B* and *C*? [NCERT Page 65]



46. Two vectors \vec{A} and \vec{B} have equal magnitudes. If magnitude of $\vec{A} + \vec{B}$, is equal to two times the magnitude of $\vec{A} - \vec{B}$, then the angle between \vec{A} and \vec{B} will be : [NCERT Page 34]

(1) $\sin^{-1}\left(\frac{3}{5}\right)$ (2) $\sin^{-1}\left(\frac{1}{3}\right)$ (3) $\cos^{-1}\left(\frac{3}{5}\right)$ (4) $\cos^{-1}\left(\frac{1}{3}\right)$

47. A cylindrical wire of mass (0.4 ± 0.01) g has length (8 ± 0.04) cm and radius (6 ± 0.03) mm.

The maximum error in its density will be

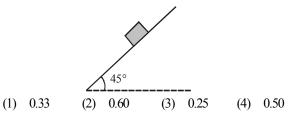
- (1) 1% (2) 3.5% (3) 4% (4) 5%
- **48.** Water drops are falling from a nozzle of a shower onto the floor, from a height of 9.8 m. The drops fall at a regular interval of time. When the first drop strikes the floor, at that instant, the third drop begins to fall. Locate the position of second drop from the floor when the first drop strikes the floor.

[NCERT Page 18, 19]

(1) 4.18m (2) 2.94m (3) 2.45m (4) 7.35m

49. Consider a block kept on an inclined plane (inclined at 45°) as shown in the figure. If the force required to just push it up the incline is 2 times the force required to just prevent it from sliding down, the coefficient of friction between the block and inclined plane (μ) is equal to :

[NCERT Page 60, 61]



50. A circular race track of radius 300 m is banked at an angle of 15°. If the coefficient of friction between the wheels of the race car and the road is 0.2. Find optimum speed of the race car to avoid wear and tear on its tyres and maximum permissible speed to avoid slipping.

(Take $g = 9.8 \text{ ms}^{-2}$ and $\tan 15^\circ = 0.27$) [NCERT Page 63, 64]

(1)
$$v_0 = 48 \text{ ms}^{-1}, v_{\text{max}} = 60 \text{ ms}^{-1}$$

(2)
$$v_0 = 28.1 \text{ ms}^{-1}$$
, $v_{\text{max}} = 38.1 \text{ ms}^{-1}$

(3)
$$v_0 = 62.2 \text{ ms}^{-1}, v_{\text{max}} = 73.4 \text{ ms}^{-1}$$

(4) None of the above

PART-II: CHEMISTRY

Section-A

- 51. Oxygen occurs in nature as a mixture of isotopes ¹⁶O, ¹⁷O and ¹⁸O having atomic masses of 15.995 u, 16.999 u and 17.999 u and relative abundance of 99.763%, 0.037% and 0.200% respectively. What is the average atomic mass of oxygen? [NCERT, Page 17]
 (1) 15.999 u
 (2) 16.999 u
 - (1) 13.999 u (2) 10.999 u(3) 17.999 u (4) 18.999 u
 - $(3) \quad 17.999 \, \mathrm{u} \qquad (4) \quad 18.999 \, \mathrm{u}$
- Statement I: Molality, mole fraction and mass fraction changes with temperature. [NCERT, Page 23]
 Statement II: Molarity does not change with temperature.
 (1) Deth statement Lond II are correct.
 - Both statement I and II are correct.
 Both statement I and II are incorrect.
 - (2) Both statement I and II are incorrect.
 - (3) Statement I is correct but statement II is incorrect.
 - (4) Statement II is correct but statement I is incorrect.
- 53. Which one of the following pairs of compounds illustrate the law of multiple proportions ? [NCERT, Page 15]
 - (1) H_2O and Na_2O
 - (2) MgO and Na_2O
 - (3) Na_2O and BaO

(1) 7 - N

(4) $SnCl_2$ and $SnCl_4$

54. Which has maximum number of molecules?

[NCERT, Page 18]

55. What will be the mass of one atom of C-12 in grams?

(1) 1.66×10^{-23} (3) 1.99×10^{-23} (4) 3.4×10^{-16} [NCERT, Page 16] (2) 1.35×10^{-36} (4) 3.4×10^{-16}

56. Two oxides of a X contain 50% and 40% of non-metal respectively. If the formula of the first oxide is XO_2 . Then the formula of second oxide is [NCERT, Page 19]

(1)
$$X_2O_3$$
 (2) X_2O_5
(3) XO_3 (4) X_2O

57. Statement I: Expirical formula of hydrogen peroxide is HO.

Statement II: Molecular formula of hydrogen peroxide is H₂O₂. [NCERT, Page 19]

- (1) Both statement I and II are correct.
- (2) Both statement I and II are incorrect.
- (3) Statement I is correct but statement II is incorrect.
- (4) Statement II is correct but statement I is incorrect.
- **58.** The amount of 50% (w/w) solution of hydrochloric acid required to react with 200 g of CaCO₃ would be

[NCERT, Page 23]

- (1) 73 g (2) 292 g (3) 146 g (4) 100 g
- 59. Starting with 2 moles of A and 1 mole of B, the following reaction : [NCERT, Page 18]

$$2A + 3B \longrightarrow X + 2Y$$

is made to take place. Assume the reaction to go to completion, match the number of moles listed in Column-II with various species listed in Column-I.

	Column-I		Column-II
(A)	А	(p)	1/3
(B)	В	(a)	2/3

- (C) X (r) 0.0
- (D) Y (s) 4/3
- (1) A-(s), B-(r), C-(q), D-(p)
- (2) A-(r), B-(p), C-(s), D-(q)
- (3) A-(s), B-(r), C-(p), D-(q)
- (4) A (q), B (p), C (r), D (s)
- **60.** 6×10^{20} molecules of CO₂ are removed from 220 milligram of CO₂. What are the remaining moles of CO₂.
 - (1) 5×10^{-3} (2) 4×10^{-3}

(3) 6×10^{-3} (4) 3×10^{-3}

61. For a reaction, [NCERT, Page 20] $N_2(g) + 3H_2(g) \rightleftharpoons 2 NH_3(g)$; identify dihydrogen (H₂) as a limiting reagent in the following reaction mixtures.

(1) 56 g of N_2 + 10 g of H_2

- (2) $35 \text{ g of } N_2^2 + 8 \text{ g of } H_2^2$
- (3) $28 \text{ g of } N_2 + 6 \text{ g of } H_2^2$
- (4) $14 \text{ g of } N_2 + 4 \text{ g of } H_2$
- 62. An organic compound contains 49.3% carbon and 6.84% hydrogen (molecular mass = 146). Molecular formula of the compound is [NCERT, Page 19]

(1) $C_3H_5O_2$ (2) $C_4H_{10}O_2$

- (3) $C_6H_{10}O_4$ (4) $C_3H_{10}O_2$
- 63. The increasing order of energy of electromagnetic radiation can be represented as [NCERT, Page 37]
 - (1) microwave < infrared < visible < X-ray
 - (2) X-ray < visible < infrared < microwave
 - (3) microwave < infrared < visible < radiowaves
 - (4) X-ray \leq infrared \leq visible \leq microwave
- **64.** Kinetic energy of the ejected electron is

[NCERT, Page 42]

- (1) equal to the frequency of the electromagnetic radiation
- (2) proportional to the frequency of the electromagnetic radiation
- (3) more than the frequency of the electromagnetic radiation
- (4) inversely proportional to the frequency of the electromagnetic radiation
- **65.** The SI unit of frequency (v), wavelength (λ) and wave

number (\overline{v}) is [NCERT, Page 39]

(1)	Hz, cm, cm ⁻¹	(2)	m ^{−1} , m, Hz	
(3)	Hz, m, m ⁻¹	(4)	Hz, m, m	

7

- 66. The spectrum of helium is expected to be similar to that of [NCERT, Page 44]
 (1) Li⁺
 (2) H
 - (3) Na (4) He^+
- 67. Two particles of masses *m* and 2*m* have equal kinetic energies. The de-Broglie wavelengths are in the ratio of [NCERT, Page 50]
 - (1) 1:1 (2) 1:2 (2) $1\sqrt{2}$ (4) $\sqrt{2}$
 - (3) $1:\sqrt{2}$ (4) $\sqrt{2}:1$
- **68.** Which of the following statement is not correctly described in Bohr's model for hydrogen atom?

[NCERT, Page 46]

- (1) Electron moves around the nucleus in a fixed orbit.
- (2) Electron will move from a higher state to a lower state when required amount of energy is absorbed.
- (3) Electron can move only in those orbits for which its angular momentum is integral multiple of $nh/2\pi$.
- (4) The energy difference when transition of e^- occurs

between two stationary states is $v = \frac{\Delta E}{h}$

- **69.** In which of the following, orbitals are correctly arranged in the increasing order of their energies?
 - [NCERT, Page 61]
 - (1) $4f \le 5p \le 5d \le 6s$ (2) $5p \le 4f \le 6s \le 5d$ (3) $5p \le 6s \le 4f \le 5d$ (4) $5p \le 5d \le 4f \le 6s$
- 70. Which orbital among the following has zero radial nodes and 2 angular nodes? [NCERT, Page 59]
- 71. The orientation of an atomic orbital is governed by
 - [NCERT, Page 55]
 - (1) Spin quantum number
 - (2) Magnetic quantum number
 - (3) Principal quantum number
 - (4) Azimuthal quantum number
- 72. Statement I: Magnetic quantum number determines the size of the orbital.

Statement II: Spin quantum number of an electrondetermines the orientation of the spin of electron relativeto the chosen axis.[NCERT, Page 55]

- (1) Both statement I and II are correct.
- (2) Both statement I and II are incorrect.
- (3) Statement I is correct but statement II is incorrect.
- (4) Statement II is correct but statement I is incorrect.
- 73. Which of the following sets of quantum numbers is correct for an electron in 4*f* orbital ? [NCERT, Page 55]
 - (1) $n=4, l=3, m=+1, s=+\frac{1}{2}$
 - (2) $n=4, l=4, m=-4, s=-\frac{1}{2}$
 - (3) $n=4, l=3, m=+4, s=+\frac{1}{2}$
 - (4) $n=3, l=2, m=-2, s=+\frac{1}{2}$

74.

75.

±Ι	and ± 2 .		[NCERT, Page 55]		
Rea	ason: For each valu	e of r	n, there are 0 to $(n-1)$ possible		
valı	ues of ℓ ; for each val	ue of	ℓ , there are 0 to $\pm \ell$ values of m.		
(1)	If both Assertion and Reason are correct and the				
	Reason is a corre	ct ex	planation of the Assertion.		
(2)	If both Assertion	and l	Reason are correct but Reason	8	
	is not a correct ex	cplan	nation of the Assertion.	o	
(3)	If the Assertion is	s cor	rect but Reason is incorrect.		
(4)	If the Assertion is incorrect and Reason is correct.				
(.)					
	tch the following		[NCERT, Page 48]	0	
				8	
Ma	tch the following	(p)	[NCERT, Page 48]	8	
Ma	tch the following Column-I	(p)	[NCERT, Page 48] Column-II	8	
Mat (A)	tch the following Column-I	(p) (q)	[NCERT, Page 48] Column-II Three dimensional shape of the orbital	8	
Mat (A)	tch the following Column-I Nodes		[NCERT, Page 48] Column-II Three dimensional shape of the orbital	8	
Mat (A)	tch the following Column-I Nodes Subsidiary		[NCERT, Page 48] Column-II Three dimensional shape of the orbital Significant only	8	
Mat (A) (B)	tch the following Column-I Nodes Subsidiary	(q)	[NCERT, Page 48] Column-II Three dimensional shape of the orbital Significant only for motion of	8	

Assertion: For n = 3, ℓ may be 0, 1 and 2 and 'm' may be 0,

- (D) Heisenberg's (s) Continuous spectrum uncertainty principle
- (1) A-(s), B-(r), C-(p), D-(q)
- (2) A (r), B (p), C (s), D (q)
- (3) A-(s), B-(r), C-(q), D-(p)
- (4) A-(q), B-(p), C-(r), D-(s)
- 76. The correct set of four quantum numbers for the valence electrons of rubidium atom (Z=37) is:

[NCERT, Page 55]

(1)
$$5,0,0,+\frac{1}{2}$$

(2) $5,1,0,+\frac{1}{2}$
(3) $5,1,1,+\frac{1}{2}$
(4) $5,0,1,+\frac{1}{2}$

- 77. Which one of the following is considered as the main postulate of Bohr's model of atom? [NCERT, Page 46]
 - (1) Protons are present in the nucleus.
 - (2) Electrons are revolving around the nucleus.
 - (3) Centrifugal force produced due to the revolving electrons balances the force of attraction between the electron and the protons.
 - (4) Angular momentum of electron is an integral multiple

of
$$\frac{h}{2\pi}$$

- 78. In Bohr's model, atomic radius of the first orbit is y, the radius of the 3^{rd} orbit, is [NCERT, Page 48] (1) y/3 (2) y(3) 3y (4) 9y
 - $(3) \quad 3y \qquad (4) \quad 9y$
- **79.** The correct order of covalent radii of Si, Ge, Sn is:
 - [NCERT, Page 85] (1) Ge < Si < Sn (2) Sn < Si < Ge
- **80.** Statement I: Avogadro's number is a dimensionless quantity.

Statement II: Avogadro's number is a number of atoms or molecule in one mole. [NCERT, Page 18]

- (1) Both statement I and II are correct.
- (2) Both statement I and II are incorrect.
- (3) Statement I is correct but statement II is incorrect.
- (4) Statement II is correct but statement I is incorrect.
- 81. The successive ionisation energies (starting from the 1st) of an element are 801, 2430, 3660, 25,000 and 32,800 kJ mol⁻¹, respectively. The element is [NCERT, Page 87] (1) B (2) C (3) O (4) N
- **82.** Match the Column-I with Column-II and choose the correct option using the codes given below.

[NCERT, Page 90]

	Column-I	Column-II		
(Ele	ctronic configuration)	(Ele	ctron gain enthalpy	
			/kJ mol ⁻¹)	
(A)	$1s^2 2s^2 2p^6$	(p)	-328	
(B)	$1s^2 2s^2 2p^6 3s^1$	(q)	-141	
(C)	$1s^2 2s^2 2p^5$	(r)	-53	
(D)	$1s^2 2s^2 2p^4$	(s)	+116	
(1)	A - (s), B - (r), C - (p),	D-(q)	
(2)	A - (r), B - (p), C - (s),	D-(q)	
(3)	A - (s), B - (r), C - (q),	D-()	p)	
(4)	A - (q), B - (p), C - (r),	D-(s)	

- 83. Statement I: In a period, 2nd ionisation energy of alkali metal is minimum. [NCERT, Page 87] Statement II: After losing one electron, alkali metals attains inert gas electronic configuration.
 - (1) Both statement I and II are correct.
 - (2) Both statement I and II are incorrect.
 - (3) Statement I is correct but statement II is incorrect.
 - (4) Statement II is correct but statement I is incorrect.
- 84. Which among the following isoelectronic species has the smallest size? [NCERT, Page 87]
 O²⁻, F⁻, Ne, Na⁺, Mg²⁺, Al³⁺, Si⁴⁺
 - (1) F^- (2) Ne (3) Si^{4+} (4) Na^+
- 85. The correct order of acidic strength:

[NCERT, Page 94]

- (1) $Cl_2O_7 > SO_2 > P_4O_{10}$
- (2) $K_2O > CaO > MgO$
- (3) $CO_2 > N_2O_5 > SO_3$
- (4) $Na_2O > MgO > Al_2O_3$

Section-B

- **86.** Among the following, the pair of elements having nearly same electronegativity values are
 - H and P
 - III. N and Cl (1) I, II and III

(3) I, III and IV

I.

- II. Be and Al IV. C and P
- (2) II, III and IV
- (4) I, II, III and IV

[NCERT, Page 90]

87. Match the mass of elements given in column-I with the no. of moles given in column-II and mark the appropriate [NCERT, Page 18] choice.

Column-II

	Column-I	
(A)	28g of He	(p)

- (p) 2 moles (q) 7 moles (B) 46g of Na
- (C) 60g of Ca (r) 1 mole
- (D) 27g of Al (s) 1.5 moles
- (1) (A) \rightarrow (s), (B) \rightarrow (r), (C) \rightarrow (q), (D) \rightarrow (p)
- (2) (A) \rightarrow (p), (B) \rightarrow (r), (C) \rightarrow (q), (D) \rightarrow (s)
- (3) (A) \rightarrow (r), (B) \rightarrow (q), (C) \rightarrow (p), (D) \rightarrow (s)
- (4) (A) \rightarrow (q), (B) \rightarrow (p), (C) \rightarrow (s), (D) \rightarrow (r)
- 88. The correct order of the first ionization enthalpies of the following elements is [NCERT, Page 87]
 - (1) Li < B < Be < N
 - (2) Li < Be < B < N
 - (3) N < Be < B < Li
 - (4) N < B < Be < Li
- **89.** In which of the following arrangements, the order is NOT according to the property indicated against it?
 - [NCERT, Page 90] (1) Li < Na < K < Rb: Increasing metallic radius (2) I < Br < F < Cl:
 - Increasing electron gain enthalpy (with negative sign)
 - (3) B < C < N < O: Increasing first ionisation enthalpy
 - (4) $Al^{3+} < Mg^{2+} < Na^+ < F^-$: Increasing ionic size
- **90.** If radius of second Bohr orbit of the He⁺ ion is 105.8 pm, what is the radius of third Bohr orbit of Li²⁺ ion?

[NCERT, Page 48] (2) 1.587 pm (1) 15.87 pm

- (3) 158.7 Å (4) 158.7 pm
- 91. A compound contains 54.55 % carbon, 9.09% hydrogen, 36.36% oxygen. The empirical formula of this compound is: [NCERT, Page 19]
 - (1) $C_{3}H_{5}O$ (2) $C_4H_8O_2$
 - (3) $C_2H_4O_2$ (4) C_2H_4O
- 92. The correct order of ionic radii for the given species is
 - (1) $Na^+ > Al^{3+} > Mg^{2+} > K^+$
 - (2) $K^+ > Na^+ > Mg^{2+} > Al^{3+}$
 - (3) $K^+ > Na^+ > Al^{3+} > Mg^{2+}$
 - (4) $Al^{3+} > Mg^{2+} > K^+ > Na^+$
- 93. Lithium shows diagonal relationship with element 'X' and aluminum with Y. X and Y respectively are

[NCERT, Page 93]

[NCERT, Page 87]

(1) Mg, Be (2) Be, Mg (3) Na, Si (4) B, Be

94. Which of the following oxides is highly basic?

- [NCERT, Page 94]
- (1) Cr_2O_3 (2) Al_2O_2
- (3) MgO (4) Na₂O
- 95. Which of the following set of properties generally decreases along a period? [NCERT, Page 90]
 - (1) Ionization energy and atomic radii
 - (2) Metallic character and atomic radii
 - (3) Electron affinity and electronegativity
 - (4) Valency and oxidation potential
- 96. The equation used to represents the electron gain enthalpy is [NCERT, Page 90]
 - (1) $X(g) + e^{-} \longrightarrow X^{-}(g)$
 - (2) $X(s) + e^{-} \longrightarrow X^{-}(g)$
 - $(3) \quad X(g) \longrightarrow X^+(g) + e^{-g}$
 - (4) $X(s) \longrightarrow X^+(g) + e^-$
- 97. Which of the following represents the correct order of increasing electron gain enthalpy with negative sign for the elements? [NCERT, Page 90]
 - A. Nitrogen (N) B.
 - Phosphorus (P)
 - Chlorine (Cl) C. D. Fluorine (F)

 - (1)P < N < F < ClN < P < F < Cl(2)
 - (3)Cl < F < P < N
 - (4) F < Cl < N < P
- **98**. Which of the following atoms is the most electronegative? [NCERT, Page 90]
 - (1) O (2) F (3) N (4) Cl
- 99. The set in which oxides of the elements have different nature is : [NCERT, Page 94]
 - (1) B and P
 - (2) B and Al
 - (3) Na and Ca
 - (4) Be and Al
- **100.** The correct order of decreasing energy for the electrons whose quantum numbers *n* and *l* are given below, is

[NCERT, Page 55]

B. n = 5 and l = 0

D. n = 4 and l = 1

A. n = 5 and l = 2C. n = 4 and l = 3(1) A > C > B > D

- (2) A > B > C > D
- $(3) \quad C > A > D > B$
- (4) A > B > D > C

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PART-III: BOTANY

[NCERT Old Page 4]

Section-A

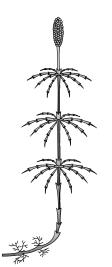
101. Which of the following organisms do not reproduce?

- (1) Mules
- (2) Sterile worker bees
- (3) Both (1) and (2)
- (4) None of these
- 102. Which statement is correct regarding reproduction in green algae? [NCERT Page 24]
 - (1) Some members show vegetative reproduction by fragmentation
 - (2) Asexual reproduction by production of various spores
 - (3) Sexual reproduction may be isogamous, anisogamous or oogamous.
 - (4) All of these

103. Who was the earliest one to attempt a more scientific basis for classification? [NCERT Page 10]

- (1) R.H. Whittaker
- (2) Linnaeus
- (3) Aristotle
- (4) Bentham and Hooker
- **104.** Identify the diagram which belong to

[NCERT Page 31]



(1)	Algae		(2)	Bryophyte

teridophyte	(4)	Angiosperm

105. Among 5-Kingdom classification, eukaryotes are placed in how many kingdom(s)? [NCERT Page 11]

(1)	2	(2) 3	
(3)	4	(4) 1	

- 106. Five kingdom system of classification suggested by R.H.

 Whittaker is not based on
 [NCERT Page 11]
 - (1) Simple morphological characters only
 - (2) Phylogenetic relationship
 - (3) Mode of reproduction
 - (4) Mode of nutrition
- **107.** Match the columns.

[NCERT Page 7]

Column-IColumn-IIA.GenusI.MuscaB.FamilyII.FelidaeC.OrderIII.CarnivoraD.ClassIV.Insecta

Choose the correct answer from the options given below.

- (1) A-IV, B-II, C-I, D-III
- (2) A-II, B-IV, C-III, D-I
- (3) A-I, B-II, C-III, D-IV
- (4) A-II, B-I, C-IV, D-III
- 108. Given below are two statements: [NCERT Page 33-34]
 Statement I: Gymnosperms are called naked seeded plants due to the absence of ovary wall.

Statement II: Angiosperm is an exceptionally large group of plants occurring in wide range of habitats.

In the light of the above statements, choose the correct answer from the options given below:

- (1) Both Statement I and Statement II are true.
- (2) Both Statement I and Statement II are false.
- (3) Statement I is true but Statement II is false.
- (4) Statement I is false but Statement II is true.
- **109.** Common feature of *Amoeba*, *Euglena*, *Paramoecium* and *Trypanosoma* is [NCERT Page 15, 16]
 - (1) being single-celled eukaryotes
 - (2) holozoic nutrition
 - (3) multiple fission
 - (4) contractile vacuole.
- **110.** In which of the following gymnosperms, corolloid root having N₂- fixing cyanobacteria is found?

[NCERT Page 32]

[NCERT Page 13]

- Pinus
 Ginkgo
 Cycas
 Cedrus
- (5) Cycus (4) Ceurus
- 111. Identify the correct features about Archaebacteria.
 - A. live in harsh habitatsB. found in salty areas
 - C. different cell wall structure
 - D. pigment similar to green plants
 - E colonial or filamentous

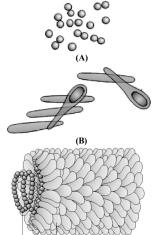
(3) P

Choose the correct answer from the options given below:	A B C D
(1) A, B and D only	(1) Tail fibres Head Sheath Collar
(2) A, C and D only	(2) Sheath Collar Head Tail fibre
(3) B, D and E only	(3) Head Sheath Collar Tail fibre
(4) A, B and C only	(4) Collar Tail fibres Head Sheath
2. Which locomotory organ is not found in protozoans?	117. Given below are two statements:
[NCERT Page 15, 16]	Statement I: In unicellular organisms, reproduction
(1) Pseudopodia	synonymous with growth.
(2) Parapodia	Statement II: Reproduction is a defining property of a
(3) Cilia(4) Flagella	living organisms. [NCERT Old Page
	In the light of the above statements, choose the corre
3. Match column-I with column-II. [NCERT Page 30, 32]	answer from the options given below:
Column-I Column-II	 Both Statement I and Statement II are true. Both Statement I and Statement II are false.
A. Heterosporous I. <i>Pteris</i>B. Lycopsida II. <i>Pinus</i>	(2) Both Statement I and Statement II are false.(3) Statement I is true but Statement II is false.
C. Mycorrhiza III. Lycopodium	(4) Statement I is false but Statement II is true.
D. Pteropsida IV. Salvinia	
Choose the correct answer from the options given below.	118. Select the correct statements about bryophytes.
(1) $A-IV; B-III; C-II; D-I$	A. Mosses serve as food for birds and herbaceo
(2) $A - I; B - II; C - III; D - IV$	mammals.
(3) $A-IV; B-I; C-II; D-III$	B. <i>Sphagnum</i> , a liverwort, provide peat that have lot been used as fuel.
(4) $A - III; B - IV; C - I; D - II$	C. Sphagnum, because of their high capacity to he
4. All protozoans are [NCERT Page 15]	water is used as packaging-material for tran
(1) autotrophs	shipment of living plant materials.
(2) heterotrophs	D. Mosses have a little role during ecological succession
(3) chemotrophs(4) none of these	E Mossess, as they form dense mat, prevent se
(4) none of these	erosion.
5. Which one is correct about heterospo <mark>rous p</mark> teridophytes?	Choose the correct answer from the options given belo
[NCERT Page 32]	(1) A Cound E culture [NCERT Page 2
(1) Microspore and megaspores develop into the male and the female gametophytes respectively.	(1) A, C and E only (2) D and E ank
(2) The female gametophyte are retained on the parent	(2) D and E only (2) B. C and D only
sporophyte for variable period.	(3) B, C and D only(4) A, C and D only
(3) The development of the zygote into the embryo takes	
place within female gametophyte.	119. In basidiomycetes, karyogamy and meiosis take place
(4) All of these	(NCERT Page 1
6. The figure given below shows the structure of a	(1) basidium
bacteriophage. Identify its parts labelled as A, B, C and D.	(2) basidiocarp
[NCERT Page 20]	(3) basidiospore
	(4) dikaryon.
A X	120. Which one is not the characteristic of <i>Cycas</i> ?
c	[NCERT Page 3
B	(1) Unbranched stem
	(2) Compound leaves (pinnate)
	(3) Dioecious (male and female cone on separate plan
D	(4) Non-archegoniate

[NCERT Page 28]

[NCERT Page 7]

121. Identify the following diagrams. [NCERT Page 12, 20]



- (A) Tobacco mosaic virus, (B) Coccus,
 (C) Bacillus
- (2) (A) Coccus, (B) Bacillus, (C) Tobacco mosaic virus
- (3) (A) Bacillus, (B) Coccus, (C) Tobacco mosaic virus
- (A) Coccus, (B) Tobacco mosaic virus,
 (C) Bacillus
- 122. Which of the following statements about classifications is not true?

 [NCERT Page 7, 8]
 - A. Members of a family are less similar than members of an included genus
 - B. An orders has more members than the number of members in an included genus
 - C. Families have more members than phyla
 - D. Members of a family share a common ancestor in the more distant past than members of an included genus
 - E. The number of species in a taxon depends on their relative degree of similarity.
 - Choose the correct answer from the options given below.
 - (1) Only C and D
 - (2) Only D and E
 - (3) Only A, B and C
 - (4) Only C
- **123.** Identify the correct set of statements. [NCERT Page 20] A. No virus contains both DNA and RNA
 - B. A virus is a nucleoprotein and the genetic material is infectious.
 - C. Viruses that infect animals can have single stranded RNA
 - D. In general, viruses that infect plants have either single or double stranded RNA or double stranded DNA
 - E Bacteriophages usually have ds DNA

Choose the correct answer from the options given below.

- (1) B and D only
- (2) A, B, C and E only
- (3) B and C only
- (4) D and E only
- **124.** Bryophytes mostly grow in
 - (1) dry area
 - (2) sandy-soil conditions
 - (3) moist shaded areas in hills, damp, humid and shaded localities
 - (4) fresh water.
- 125. Gibbon belong to order
 - (1) Diptera
 - (2) Polymoniales
 - (3) Primata
 - (4) Carnivora.
- **126.** The fungus, commonly known as bread mould is
 - [NCERT Page 17]

- (1) Alternaria
- (2) Rhizopus
- (3) Penicillium
- (4) Aspergillus.
- **127.** Select the correct statements for reproduction.
 - A. It is not an all-exclusive defining characteristic of living organisms
 - B. It is not an all-inclusive defining characteristic of living organisms
 - C. It is an all -inclusive defining characteristic of plants and fungi only.
 - D. Photoperiod affects reproduction in seasonal plant breeders only.
 - E Photoperiod affects reproduction in seasonal breeders both plants and animals

[NCERT Old Page 4]

Choose the correct answer from the options given below.

- (1) B and E only
- (2) C and D only
- (3) A and E only
- (4) All of these
- 128. Given below are two statements:

Statement I: Symbiosis is furnished by mycorrhiza.Statement II: In mycorrhiza, symbiosis is establishedbetween fungus and algae.[NCERT Page 16]In the light of the above statements, choose the correctanswer from the options given below:

- (1) Both Statement I and Statement II are true.
- (2) Both Statement I and Statement II are false.
- (3) Statement I is true but Statement II is false.
- (4) Statement I is false but Statement II is true.

PRERNA EDUCATION

PT - XI/01

129. N	fatch List-I with List-II [NCERT Page 24, 27]	135. Match List-I with List-II. [NCERT Page 17, 18]
	List-I List-II	List - I List - II
A	e	A. Puccinia I. Yeast
В	e	B. Ustilago II. Mushroom
C	e	C. Agaricus III. Smut fungus
D		D. Saccharomyces IV. Rust fungus
	Choose the correct answer from the options given below.	Choose the correct answer from the options given below.
(1		(1) $A-I, B-II, C-III, D-IV$
(2		(2) $A-II, B-III, C-IV, D-I$
(3		(3) A-III, B-IV, C-I, D-II
(4	4) $A-IV, B-II, C-III, D-I$	(4) A-IV, B-III, C-II, D-I
	Different organisms belonging to different orders are placed	Section-B
(1	n a single class due to the fact that [NCERT Page 7] 1) they have all similar morphological and reproductive	136. A group of plants or animals with similar traits of any rank
()	characters	is [NCERT Page 6] (1) Species (2) Genus
(2	2) they have similar place of origin	(1) Species (2) Genus (3) Order (4) Taxon.
(3		
(4	4) they have few similar or common characters.	137. Match List-I with List-II. [NCERT Page 28, 32, 34]
31. V	Vith respect to fungal sexual cycle, choose the correct	List - I List - II
	equence of events. [NCERT Page 17]	A. <i>Pteris</i> I. Gymnosperm
	1) Karyogamy, Plasmogamy and Meiosis	B. Wolffia II. Pteridophyte
(2		C. Cedrus III. Angiosperm D. Marchantia IV. Bryophyte
(3		D. <i>Marchantia</i> IV. Bryophyte Choose the correct answer from the options given below.
(4		(1) $A-I, B-III, C-II, D-IV$
2 2 1		(1) $A-I, B-III, C-I, D-IV$ (2) $A-II, B-III, C-I, D-IV$
	Which among the following is incorrect about ytotaxonomy and chemotaxonomy? [NCERT Page 24]	$\begin{array}{c} (2) A = II, B = II, C = I, D = IV \\ (3) A = III, B = II, C = I, D = IV \end{array}$
	Cytotaxonomy is based on the chromosomes present	$\begin{array}{c} (f) \text{if } \Pi, D \text{if } O \text{if } D \text{if } V \\ (f) \text{A-II, B-I, C-III, D-IV} \end{array}$
(1	in the organism.	
(2	-	138. Match List-I with List-II. [NCERT Page 18]
(-	composition of plants.	List - I List - II
(3	· ·	A. Edible delicacies I. <i>Pencillium</i>
(of chromosomes, division of cell and position of	B. Experimental II. Neurospora crassa
	centromere.	genetics C. Source of III. <i>Puccinia, Ustilago</i>
(4	4) Cytotaxonomy involves only external characteristics.	antibiotics
33 T	he number of obligate categories which are always used	D. Rust and smut IV. Morels and truffles
	n a taxonomic hierarchy are [NCERT Page 6]	diseases
(1		Choose the correct answer from the options given below.
(3		(1) $A-IV; B-II; C-III; D-I$
	ead the following statements. [NCERT Page 27, 28]	(2) $A - III; B - I; C - II; D - IV$
А		(3) $A-IV; B-II; C-I; D-III$
В	The red thalli of most of the red algae are multicellular.	(4) $A-IV; B-III; C-II; D-I$
C	, , , , , , , , , , , , , , , , , , , ,	139. Which of the following is against the rules of ICBN?
	surface of water.	[NCERT Page 4]
D		(1) Generic and specific names should be always
E	1 8	underlined.
	The above characteristics belong to	(2) Handwritten scientific names should be
(1) Rhodophyceae	underlined.
- C	U Rhaaanhyaaaa	

- (1) Rhodophyceae
- (2) Phaeophyceae
- (3) Chlorophyceae
- (4) Fungi.

13

(3) Every species should have a generic name and a

(4) Scientific names are in Latin and should be italicized.

specific epithet.

140. Identify the function of 'X' depicted in given diagram. [NCERT Page 13]



- (1) Fix atmospheric nitrogen
- (2) Photosynthesis
- (3)Respiration
- (4) Recycling nutrients
- 141. Match List-I with List-II. [NCERT Page 13, 14, 17, 18] List - I List - II Cyanobacteria
 - A. Sac fungi Ι
 - Bracket fungi Claviceps B II.
 - C. Phycomycetes III. Agaricus
 - D. Eubacteria IV. Mucor

Choose the correct answer from the options given below.

- (1) A-II. B-III. C-I. D-IV
- (2) A-I, B-II, C-III, D-IV
- (3) A-II, B-IV, C-III, D-I
- (4) A-II, B-III, C-IV, D-I

142. Read the following about numerical taxonomy.

[NCERT Page 24]

- A. It is carrid out by the use of computers.
- It is based on all observable characters of organisms. B C. Number and codes are assigned to all the characters, data are then processed.
- D. Each character is given equal importance.
- E. Hundreds of characters can be considered at the same time

Which of the above statements are incorrect?

- (1) A and B only (2) C and E only
- (3) None of these (4) D only

143. Select the correct statement. [NCERT Page 20, 21]

- (1) In lichens, the algal component is called phycobiont and fungal component is known as mycobiont, which are heterotrophic and autotrophic respectively.
- (2) Viroid contains RNA of low molecular weight and protein coat.
- (3) A virus contains both RNA and DNA.
- (4) Viruses are obligate parasites.

144. Match List-I with List-II. [NCERT Page 14, 15, 18, 19] List-I List - II

- A. Ascospores Slime moulds Ι
- B. Fission Agaricus П
- C Plasmodium III. Bacteria
- Yeast D. Basidiospores IV.

Choose the correct answer from the options given below.

- (1) A-IV; B-III; C-I; D-II
- (2) A-IV; B-I; C-III; D-II
- (3) A-IV; B-II; C-III; D-I
- (4) A-II; B-III; C-I; D-IV

145. Which of the following statement is incorrect?

[NCERT Page 14, 15, 20]

- (1) The name virus means venom or poisonous fluid.
- (2) Many mycoplasma are pathogenic in animals and plants.
- (3) Toxins released by large number of red dinoflagellates may even kill other marine animals such as fishes.
- (4) Beside the cell wall, euglenoids have a protein rich layer called peulicle which makes their body flexible.

146. Given below are two statements:

Statement I: In Dryopteris, both sporophyte and gametophyte are independent.

Statement II: Gametes are produced in fern by prothallus.

[NCERT Page 31, 32]

In the light of the above statements, choose the correct answer from the options given below:

- (1) Both Statement I and Statement II are true.
- (2) Both Statement I and Statement II are false.
- (3) Statement I is true but Statement II is false.
- (4)Statement I is false but Statement II is true.

147. Match List-I with List-II. [NCERT Page 12, 14, 16, 20]

- List I List - II A. Venom I. Eubacteria
 - Fungi II. Euglenoids
- C. Protista III. Phycomycetes
- D. Monera IV. Virus

Choose the correct answer from the options given below.

- (1) A-IV; B-III; C-II; D-I
- (2) A-I; B-II; C-III; D-IV
- (3) A-III; B-IV; C-II; D-I
- (4) A-IV; B-II; C-III; D-I

148. Match List-I with List-II.

B.

B.

C.

[NCERT Page 16]

- List I List - II A. Amoeboid protozoans I. Paramecium
 - Ciliated protozoans П. Plasmodium
 - III. Entamoeba Sleeping sickness
- D. Sporozoans IV. Trypanosoma

Choose the correct answer from the options given below.

- (1) A-I, B-III, C-IV, D-II
- (2) A-III, B-I, C-II, D-IV
- (3) A-III, B-I, C-IV, D-II
- (4) A-III, B-IV, C-I, D-II

- PT XI/01
- **149.** Which is the tallest gymnospermic plant?
 - (1) Redwood tree *Sequoia* [NCERT Page 32]
 - (2) Pinus
 - (3) Ginkgo
 - (4) Cycas

- 150. AIDS in humans is caused by [NCERT Page 20]
 - (1) virus
 - (2) fungi
 - (3) bacteria
 - (4) algae

PART-IV: ZOOLOGY

Section-A

- 151. Which of the following statements about cell junctions is false?

 [NCERT Old Page 102]
 - A. All the cells of the epithelium are held together with little intercellular materials.
 - B. In almost all animal tissues specialized junctions provide both structural and functional link between its individual cells.
 - C. Tight junctions help to stop substances from leaking across a tissue.
 - D. Adhering junction provide cementing to keep neighbouring cells together.
 - E Gap junctions provide cytoplasmic channels between cells for passage of ion, small molecules and sometimes big molecules.
 - (1) Only B and C
 - (2) Only A and B
 - (3) Only D and E
 - (4) None of these
- 152. Which one is the oviparous mammal? [NCERT Page 51]
 - (1) Macropus (Kangaroo)
 - (2) Panthera
 - (3) Ornithoryhynchus (Platypus)
 - (4) Whale

153. Frog's heart is

- (1) 4 chambered
- (2) 2 chambered
- (3) 3 chambered
- (4) none of these
- 154. Pleurobrachia and Ctenoplana are. [NCERT Page 42]
 - (1) sponges
 - (2) ctenophores
 - (3) flatworms
 - (4) roundworms
- 155. Identify the set of correct statements.

[NCERT Page 112-114]

[NCERT Page 82]

- A. The respiration by lungs is called pulmonary respiration.
- B. Each compound eye of cockroach consists of about 1000 hexagonal ommatidia.
- C. Cockroaches are monoecious.
- D. In cockroach, gizzard helps in grinding the food particles.

Choose the correct answer from the options given below.

- (1) A and C only
- (2) C and D only
- (3) A and D only
- (4) B and E only
- 156. Amphibia shares with reptiles in all of the following characters except

 [NCERT Page 48, 49]
 - (1) tympanum represents ear
 - (2) presence of scales
 - (3) sexes are separate
 - (4) oviparous.

B.

C.

Α.

- 157. Match List-I with List-II. List - I
 - A. Hepatic portal system in frog kidney and lower parts of the body.

List - II

- Lymphatic system II. Haemoglobin
- in frog
 - Renal portalIII.Venous connection betweensystem in frogliver and intestine
- D. Red coloured IV. Lymph, lymph channels and pigment nodes

Choose the correct answer from the options given below.

- (1) A-I, B-II, C-III, D-IV
- $(2) \quad A-III, B-IV, C-I, D-II$
- $(3) \quad A-III, B-I, C-IV, D-II$
- (4) A-I, B-III, C-II, D-IV

158. Read the following statements about aschelminthes.

[NCERT Page 43]

[NCERT Page 82]

- Are diploblastic and pseudocoelomate animals
- B Their body is circular in cross-section so, are called round worms
- C. Alimentary canal is incomplete
- D. Muscular pharynx is present
- E Are hermaphrodites
- Which of the above statements are correct?
- (1) B and D only
- (2) A, B and E only
- (3) C, D and E only
- (4) B, C and D only
- 159. In frogs, vasa efferentia are ______ in number that arise from testes.
 [NCERT Page 83]

1	6	

160. Read the following statements about hemichordates.

[NCERT Page 45]

- A. Are exclusively fresh water organisms
- B. Possess metameric segmentation
- C. Body is cylindrical
- D. Respiration occur through gills
- E Excretion of nitrogonous waste occurs through proboscis gland

Which of the above statements are correct?

- (1) C, D and E only
- (2) A and B only
- (3) A and C only
- (4) B, D and E only

161. Match List-I with List-II. [NCERT Page 82, 83, 84]

- List I List - II
- A. Urinogenital duct I. Tadpole
- B. Larval stage of II. Ventral side of the heart frog
- C. Ear in frog III. Opens into cloaca

D. Conus arteriosus IV. Hearing as well as balancing Choose the correct answer from the options given below.

- (1) A-III, B-I, C-IV, D-II(2) A-IV, B-II, C-I, D-III
- (3) A-I, B-II, C-III, D-IV
- (4) A-IV, B-III, C-II, D-I

162. Match List-I with List-II.

[NCERT Page 45]

- List II List - I A. Tusk shell *Chaetopleura* I.
- B. Squid II. Dentalium
- C. Chiton III. Aplysia
- D. Sea-hare IV. Loligo

Choose the correct answer from the options given below. (1) A-III, B-IV, C-II, D-I

- (2) A-II, B-IV, C-I, D-III
- (3) A-III, B-II, C-IV, D-I
- (4) A-II, B-IV, C-III, D-I

163. Match List-I with List-II.

[NCERT Page 82, 83]

- List I List - II A. Central nervous I. Heart, Lymph vessels and blood system
- B. Autonomic II. Brain and spiral cord nervous system
- C. Peripheral III. Cranical and spinal nerves nervous system
- Vascular system IV. Sympathetic and para-D. sympathetic

Choose the correct answer from the options given below.

- (1) A-III, B-II, C-I, D-IV
- (2) A-IV, B-I, C-III, D-II
- (3) A-I, B-IV, C-III, D-II
- (4) A-II, B-IV, C-III, D-I
- 164. Given below are two statements: one is labelled as Assertion A and the other is labelled as Reason R:

Assertion A: The ctenophores are marine animals with comb plates.

Reason R: They have characteristic flagellated choanocytes. [NCERT Page 42]

In the light of the above statements, choose the correct answer from the options given below:

- (1) Both A and R are true and R is the correct explanation of A.
- Both A and R are true but R is NOT the correct (2) explanation of A.
- (3) A is true but R is false.
- (4) A is false but R is true.

165. Match List-I with List-II.

- [NCERT Page 44, 48, 49] List - II
- List I A. Frog I. Amphibia
 - Locust II. Aves
- R
- C. Birds III. Reptilia
- D. Cobra IV. Insecta

Choose the correct answer from the options given below.

- (1) A-I, B-II, C-III, D-IV
- (2) A III, B I, C II, D IV
- $(3) \quad A-IV, B-III, C-I, D-II$
- (4) A-I, B-IV, C-II, D-III

10	166. Match List-I with List-II			[NCERT Page 48-51]
		List - I		List – II
	A.	Equus	I.	Moist skin (without scales)
	B.	Hyla	II.	Forelimbs absent
	C.	Columi	ba III.	Poisonous nature

D. Bangarus IV. Mammary glands present

- Choose the correct answer from the options given below.
- (1) A-II, B-I, C-IV, D-III
- (2) A-IV, B-III, C-I, D-II
- (3) A-III, B-II, C-IV, D-I
- (4) A-IV, B-I, C-II, D-III

167. Identify the incorrect statement about frog.

[NCERT Page 83]

- (1) Parathyroid and pineal body are present.
- (2) Optic lobes are situated in the midbrain.
- (3) There are ten cranial nerves only.
- (4) The ventricle opens into the conus arteriousus.

168. Ma	tch List-I with List	[NCERT Page 47, 48, 49]			
	List - I		List - II		
A.	Hemidactylus	I.	Ectoparasite		
B.	Hippoptamus	II.	Electric organs		
C.	Torpedo	III.	Shed scales as skin cast		
D.	Myxine	IV.	Vivipary		
C1					

Choose the correct answer from the options given below.

- (1) A-II, B-I, C-IV, D-III
- (2) A-IV, B-III, C-I, D-II
- (3) A-III, B-IV, C-II, D-I
- (4) A-III, B-IV, C-I, D-II

I/01

Α

169. Which of the following statement is false?

[NCERT Old Page 102]

- (1) Goblet cells secrete mucus
- (2) Exocrine glands possess duct for secretion of mucus, milk, saliva, earwax, digestive enzymes, oil and other cell products
- (3) Glandular epithelium consists of specialized columnar or cuboidal cells
- (4) Endocrine glands secrete a variety of enzymes only

170. Match columns I with column II. [NCERT Page 48] Column I

- Column II
- Trygon I. Saw fish
- Great white shark B. Pristis П.
- Carcharodon III. Dog fish C.
- D. Scoliodon IV. Sting ray

Choose the correct answer from the options given below.

- (1) A-I, B-IV, C-II, D-III
- (2) A-IV, B-I, C-III, D-II
- (3) A-I, B-IV, C-III, D-II
- (4) A-IV, B-I, C-II, D-III

171. Match the columns.

[NCERT Page 45]

[NCERT Page 44]

- Column-I Column-II A. Octopus L Pearl ovster
- B Pinctada II. Apple snail
- C. Pila III. Sea hare
- D. Aplysia IV. Devil fish

Choose the correct answer from the options given below.

- (1) A-II, B-I, C-III, D-IV
- (2) A-III, B-IV, C-I, D-II
- (3) A-I, B-II, C-III, D-IV
- (4) A-IV, B-I, C-II, D-III
- 172. In arthropods, excretion takes place through
 - (1) general body surface
 - (2) flame cells
 - (3) malpighian tubules
 - (4) nepridia
- 173. Select the option of location in which the given epithelia is found. [NCERT Old Page 101]



- (1) PCT
- (2) Wall of blood vessels
- (3) Lining of stomach
- (4) Fallopian tubes
- **174.** A feature absent in annelids is [NCERT Page 43] (1) nephridia (Osmoregulatory + excretory organ).
 - (2) lateral swimming appendages in aquatic forms like Nereis
 - (3) longitudinal and circular muscles helping in locomotion
 - (4) pseudocoelom

175. Given below are two statements: one is labelled as Assertion A and the other is labelled as Reason R:

[NCERT Old Page 105]

Assertion A: Frogs maintain the ecological balance in the ecosystem.

Reason R: Frogs can live both on land and in freshwater. In the light of the above statements, choose the correct answer from the options given below:

- (1) Both A and R are true and R is the correct explanation of A.
- Both A and R are true but R is NOT the correct (2)explanation of A.
- A is true but R is false. (3)
- (4) A is false but R is true.
- 176. Which of the following is not found in the phylum Chordata? [NCERT Page 46]
 - (1) A dorsal hollow nerve cord
 - (2) Lateral paired gill slits during development
 - (3) A notochord at some stage of development
 - (4) An external skeleton

C.

177. Match the columns. [NCERT Old Page 102, 103, 105] Column-I Column-II

- Goblet cells Neural tissue A I. B. Neuroglia II. Specialised connective tissue
 - Cartilage III. Loose connective tissue
- D. Areolar tissue IV. Glandular epithelium
- Choose the correct answer from the options given below.
- (1) A-III, B-IV, C-II, D-I
- (2) A-I, B-II, C-III, D-IV
- (3) A-IV, B-I, C-III, D-II
- (4) A-IV, B-I, C-II, D-III
- 178. Which of the following is correct? [NCERT Page 38, 39]
 - A. Diploblastic : Porifera, Coelenterates
 - B Triploblastic : Platyhelminthes to Chordates
 - C Acoelomate : Porifera, Coelenterates, Platyhelminthes
 - D. Pseudocoelomate : Aschelminthes / Round worms
 - Choose the correct answer from the options given below. (1) All are incorrect
 - (2) All are correct

Column-I

- (3) Only A, B and D are correct
- (4) Only D is correct

179. Match the columns [NCERT Old Page 103, 104]

- Column-II
- A. Adipose tissue I. Nose
- B. Dense irregular II. Blood connective tissue
- Hyaline cartilage III. Skin C.
- Fluid connective IV. Fat storage D tissue

Choose the correct answer from the options given below.

- (1) A-IV, B-II, C-III, D-I
- (2) A-IV, B-III, C-I, D-II
- (3) A-III, B-I, C-IV, D-II
- (4) A III, B I, C II, D IV
- **180.** Given below are two statements: [NCERT Page 44] Statement I: In arthropods, circulatory system is open type.

Statement II: Statocysts are present in the molluscs. In the light of the above statements, choose the correct answer from the options given below:

- (1) Both Statement I and Statement II are true.
- (2)Both Statement I and Statement II are false.
- (3)Statement I is true but Statement II is false.
- Statement I is false but Statement II is true. (4)
- 181. In the given diagram of areolar connective tissue, the different cells and parts have been marked by alphabets (A, B, C and D). Choose the answer in which these alphabets correctly match with the parts. [NCERT Old Page 103]



- (1) A-Adipocyte, B-Collagen fibres, C-Microfilament, D-Mast cells
- (2) A-Macrophage, B-Collagen fibres, C-Microfilament, D-Mast cells
- (3) A-Macrophage, B-Collagen fibres, C-Microtubule, D-RBC
- (4) A-Macrophage, B-Fibroblast, C-Collagen fibres, D-Mast cells

182.	Match column-I with	column-II.	[NCERT Page 40-43	3]
	Column-I		Column-II	

- A. Organ level Ι Pheretima Cellular II. Fasciola B. aggregate level C. Tissue level III. Spongilla D. Organ system level IV. Obelia Choose the correct answer from the options given below. (1) A-IV, B-III, C-I, D-II(2) A-IV, B-II, C-III, D-I
- (3) A-II, B-IV, C-III, D-I
- (4) A-II, B-III, C-IV, D-I

183. Ma	3. Match List-I with List-II. [NCERT Old Page 102-104] List - I List - II A. Blood I.						
	List - I		List - II				
A.	Blood	I.	Help in communication with				
			each other				
B.	Ligament	II.	Transport of substances				
C.	Areolar tissue	III.	Loose connective tissue				
D.	Gap junction	IV.	Dense regular connective				

tissue

- Choose the correct answer from the options given below.
- (1) A-III, B-IV, C-II, D-I
- (2) A-I, B-II, C-III, D-IV
- (3) A-IV, B-I, C-III, D-II
- (4) A-II, B-IV, C-III, D-I

184. Match column-I with column-II.	[NCERT Page 45]
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Column-I		Column-II
Echinus	I.	Brittle star
Cucumaria	II.	Sea lily
Antedon	III.	Sea urchin
Ophiura	IV.	Sea cucumber
	Echinus Cucumaria Antedon	Echinus I. Cucumaria II. Antedon III.

- Choose the correct answer from the options given below.
- (1) A-IV, B-III, C-I, D-II
- (2) A-III, B-IV, C-II, D-I
- (3) A-III, B-IV, C-I, D-II
- (4) A-III, B-II, C-IV, D-I
- 185. Given below are two statements: [NCERT Old Page 104] Statement I: Ground substance of bone is hard and nonpliable.

Statement II: The bone marrow in all bones is the site of production of blood cells.

In the light of the above statements, choose the correct answer from the options given below:

- Both Statement I and Statement II are true. (1)
- Both Statement I and Statement II are false. (2)
- (3)Statement I is true but Statement II is false.
- Statement I is false but Statement II is true. (4)

Section-B

186. Given below are two statements: [NCERT Page 40] Statements I: Sponges show cellular grade of organisation. Statements II: Sponges have a water transport or canal system.

In the light of the above statements, choose the correct answer from the options given below:

- Both Statement I and Statement II are true. (1)
- Both Statement I and Statement II are false. (2)
- (3)Statement I is true but Statement II is false.
- (4) Statement I is false but Statement II is true.

187. Match List-I with List- List - I		List-II.	[NCERT Old Page 111, 112]
	List - I		List - II
A.	Sclerites	I.	Flexible articular membrane

- Flexible articular membrane I
- Tegmina II. B.

C.

D.

Arthrodial III. Hardened plates

Lower lip

- membrane Labium
 - IV. Opaque dark and leathery wing

Choose the correct answer from the options given below.

- (1) A-IV, B-I, C-II, D-III
- (2) A II, B III, C I, D IV
- (3) A-III, B-IV, C-I, D-II
- (4) A-I, B-II, C-III, D-IV

- PT XI/01
- **188.** Which of the following statements are correct?
 - [NCERT Page 38, 40, 43]
 - A. In earthworm, the body shows metameric segmentation.
 - B. Aschelminthes are pseudocoelomates.
 - C. Sponges are mostly asymmetrical.
 - D. Mesoglea is an undifferentiated layer present in between the ectoderm and the endoderm.
 - E *Nereis* is dioecious but leech is monoecious. Choose the correct answer from the options given below.
 - (1) A and B only
 - (2) B and C only
 - (3) B, C and D only
 - (4) All of these
- **189.** A triangular structure that joins the right atrium of heart in frog is called [NCERT Page 82]
 - (1) Sinus venosus and receives blood from vena cava
 - (2) Conus arteriosus and receives blood from vena cava
 - (3) Sinus venosus and receives blood from pulmonary artery
 - (4) Conus arteriosus and receives blood from pulmonary vein.
- 190. Given below are two statements: [NCERT Page 42]
 Statement I: Flatworms are bilaterally symmetrical.
 Statement II: Hooks and suckers are present in the parasitic forms.

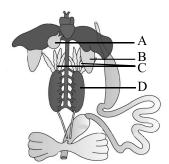
In the light of the above statements, choose the correct answer from the options given below:

- (1) Both Statement I and Statement II are true.
- (2) Both Statement I and Statement II are false.
- (3) Statement I is true but Statement II is false.
- (4) Statement I is false but Statement II is true.
- **191.** Given below are two statements: [NCERT Old Page 101] Statement I: Compound epithelium covers dry surface of the skin.

Statement II: Its major role is secretion and absorption. In the light of the above statements, choose the correct answer from the options given below:

- (1) Both Statement I and Statement II are true.
- (2) Both Statement I and Statement II are false.
- (3) Statement I is true but Statement II is false.
- (4) Statement I is false but Statement II is true.
- **192.** Which statement is incorrect? [NCERT Page 42, 43]
 - (1) In ctenophores, locomotion is mediated by comb plates.
 - (2) Planaria does not possess regeneration capacity.
 - (3) Earthworms are monoecious but cross fertilization take place among them.
 - (4) In cockroaches and mosquitoes excretion of waste material occurs through malpighian tubules

193. The figure given here shows diagrammatic representation of internal organs of frog. Identify A to D and select the correct option. [NCERT Page 81]



			Α	В		С	D
		(1)	Gall bladder	Liver		Testis	Rectum
		(2)	Gall bladder	Lung		Fat bodies	Kidney
		(3)	Pancreas	Lung		Testis	Liver
		(4)	Liver	Panci	reas	Fat bodies	Gall bladder
19	94.	Mat	ch List-I with	List-II.		[NCERT Page	e 47, 48, 51, 52]
			Lilst - I			List - II	_
		A.	Lamprey]	I.	Flame cells	
		B.	Rohu]	II.	Viviparous	
		C.	Osmoregulat	ion 1	III.	Migrate to fro spawning	esh water for
		D.	Camelus	1	IV.	Cycloid/Cten	oid scales
			ose the correc			•	
		(1)	A–III, B–IV			-	5 B1 • • • • • • • • • •
		~ /	A-I, B-III,	· ·	·		
		(3)			·		
		(4)	A–II, B–IV.				
10)5	Ino			·		aut in correct
13	7 5.		uence.	iiiiy ii	ie pa		egut in correct CERT Page 81]
		(1)		esonh	2011	-	$x \rightarrow \text{Crop} \rightarrow$
		(1)	Gizzard	coopii	ugu	, inarym	r , crop ,
		(2)		rop —	→ Pł	$arynx \rightarrow Oc$	esophagus \rightarrow
			Gizzard	1		5	1 0
		(3)	Mouth \rightarrow 0	Gizzai	rd -	\rightarrow Crop \rightarrow	Pharynx \rightarrow
			Oesophagus				
		(4)		haryn:	$x \rightarrow$	Oesophagus	$s \rightarrow Crop \rightarrow$
			Gizzard				
19	96.	Mat	ch List-I with	List-II.		[NCERT	Page 40, 43, 44]
			List - I			List - II	
		A.	Porifera		I.	Canal system	L
		B.	Aschelminth	es]	II.	Metameres	
		C	Ammalida	1	ш	Magazalannika	

- Annelida III. Muscular pharynx
- D. Arthropoda IV. Jointed appendages

Choose the correct answer from the options given below.

- (1) A-II, B-III, C-I, D-IV
- (2) A-II, B-I, C-III, D-IV
- (3) A-I, B-III, C-II, D-IV
- (4) A-I, B-II, C-III, D-IV

C.

197.	Wh	ich of the followir	ng is no	t true aboi	it con	nective tissue?	199.	Giv	ven below are tw	vo statei	nents:	INCERT Old	Page 105
		Which of the following is not true about connective tissue? [NCERT Old Page 103]							tement I: Cells			-	g J
	A.	Connective tiss distributed in th		e most ab	undar	nt and widely			tement II: Com cs are present be		2		ercalated
	B.	They connected	-	-				In t	the light of the a	bove st	atemen	ts, choose the	e correct
	C.	They include su	ch dive	erse tissue	s as bo	one, cartilage,		ans	wer from the opt	tions giv	ven bel	ow:	
		tendons, adipos	se and	loose cor	nectiv	ve tissues		(1)	Both Statemen	t I and S	Stateme	ent II are true.	
	D.	They form the i	nternal	and exte	rnal li	ning of many		(2)	Both Statemen	t I and S	Stateme	ent II are false.	
		organs						(3)	Statement I is t	rue but	Statem	ent II is false.	
	E.	In all connecti						(4)	Statement I is f	false but	Staten	nent II is true.	
		secrete fibres of or elastin	fstruct	ural prote	ins ca	lled collagen	200.	Ma	tch List-I with Li	st-II.		[NCERT Pa	ge 48, 49]
	Cho	Choose the correct answer from the options given b				given below.			List - I		List -	Π	
	(1)	OnlyD			P	8		A.	Chelone	I.	Poiso	n sting	
	(2)	OnlyE						B.	Crocodilus	II.	Elect	ric organ	
	(3)	Only A and B						C.	Torpedo	III.	Ovipa	arous	
	(4)	Only C and E						D.	Trygon	IV.	Four-	chambered he	eart
100	. /							Ch	oose the correct a	answer	rom th	e options give	n below.
198.	Ma				ERT P	age 48, 49, 51]		(1)	A - III, B - IV,	C – II, I)–I		
		List - I	_	List - II				(2)	A - IV, B - III,	C – II, I)–I		
	A.	Macaca	I.	Limbles				(3)	A–IV, B–I, C	-II, D	-III		
	B.	Aptenodytes	II.	Cloacal				(4)	A-I, B-II, C-	– III, D	-IV		
	C.	Vipera		Pneuma		nes							
	D.	Bufo		Ear pinr									
		bose the correct a			ptions	given below.							
	(1)	A–IV, B–III, C											
	(2)	A - III, B - IV, C											
	(3)	A–IV, B–III, C											
	(4)	A–III, B–IV, C	C – II, D)–I									