

Corporate Office

Questions & Answers for

Re-Examination of NEET (UG)-2024

1.	The test is of options with a single correct answer	duration and the Test Booklet contains) from	multiple-choice questions (four . 50 questions
	in each subject are divided into	as per details given bel	ow:
	(a) shall consist of 135 and 151 to 185). All Questi	Questions in each subject (Ques ons are compulsory.	tion Nos-1 to 35, 51 to 85, 101 to
	(b) shall consist of 150 and 186 to 200). In in each subject.	questions in each subject (Question , a candidate needs to	Nos- 36 to 50, 86 to 100, 136 to questions out of
	question paper. In the event of a ca	ndidate attempting more than ten questions	before they start attempting the
	question paper. In the event of a cal	induate attempting more than ten questions,	
2.	Each question carries . For response, will be deduct	or each correct response, the candidate will ed from the total scores.	get . For each incorrect
3.	Use	for writing particulars on this page / mark	ing responses on Answer Sheet.
4.	Rough work is to be done in the spa	ace provided for this purpose in the Test Boo	klet only.
5.	On completion of the test, the cano before leaving the	lidate must Room / Hall. The candidates are allowed to	take away this Test Booklet with
	them.		,
6.			
	the matter to the Invigilator for repla	. In case of discrepancy, the car acement of both the Test Booklet and the Ans	ndidate should immediately report swer sheet.
7.	The candidates should ensure that Sheet. Do not write your Roll No. at	the Answer Sheet is not folded. Do not mak nywhere else except in the specified space in	e any stray marks on the Answer the Test Booklet/Answer Sheet.
8.	Use of white fluid for correction is	permissible on the Answer Sheet.	
9.	Each candidate must show on-dem	and his/her Admission Card to the Invigilator	
10.	No candidate, without special perm	ission of the Centre Superintendent or Invigil	ator, would leave his/her seat.
11.	Use of Electronic/Manual Calculato	r is prohibited.	
12.	The candidates are governed by al Examination Room / Hall. All case examination.	I Rules and Regulations of the examination vession of unfair means will be dealt with as pe	with regard to their conduct in the er Rules and Regulations of this
13.			
14.	The candidates will write the Corr Attendance Sheet.	ect Test Booklet Code as given in the Test	Booklet / Answer Sheet in the



1. The magnetic potential energy, when a magnetic bar of magnetic moment \vec{m} is placed perpendicular to the magnetic field \overline{B} is

(1)	_ <u>mB</u> 2	(2)	Zero
(3)	-mB	(4)	mВ

2. A bob is whirled in a horizontal circle by means of a string at an initial speed of 10 rpm. If the tension in the string is quadrupled while keeping the radius constant, the new speed is:

(1)	20 rpm	(2)	40 rpm
(3)	5 rpm	(4)	10 rpm

3. A metal cube of side 5 cm is charged with 6 µC. The surface charge density on the cube is

(1)	0.125 × 10⁻³ C m⁻²	(2) $0.25 \times 10^{-3} \text{ Cm}^{-2}$
(3)	4 × 10 ⁻³ C m ⁻² (4)	0.4 × 10 ^{−3} C m ^{−2}

The incorrect relation for a diamagnetic material (all the symbols carry their usual meaning and ε is a small 4. positive number) is:

(2) $0 \le \mu_r < 1$

(4) $1 < \mu_r < 1 + \varepsilon$

- (1) $\mu < \mu_0$
- (3) $-1 \le \chi < 0$
- An ideal fluid is flowing in a non-uniform cross-sectional tube XY (as shown in the figure) from end X to end 5. Y. If K_1 and K_2 are the kinetic energy per unit volume of the fluid at X and Y respectively, then the correct option is :



6. The escape velocity for earth is v. A planet having 9 times mass that of earth and radius, 16 times that of earth, has the escape velocity of:

(1)
$$\frac{v}{3}$$
 (2) $\frac{2v}{3}$

$$(3) \quad \frac{3v}{4} \tag{4} \quad \frac{9v}{4}$$



- 7. An electron and an alpha particle are accelerated by the same potential difference. Let λ_e and λ_{α} denote the de-Broglie wavelengths of the electron and the alpha particle, respectively, then:
 - (1) $\lambda_e > \lambda_\alpha$ (2) $\lambda_e = 4\lambda_\alpha$ (3) $\lambda_e = \lambda_\alpha$ (4) $\lambda_e < \lambda_\alpha$

8. An object moving along horizontal *x*-direction with kinetic energy 10 J is displaced through $x = (3\hat{i})$ m by the

force $\vec{F} = (-2\hat{i} + 3\hat{j})N$. The kinetic energy of the object at the end of the displacement x is

- (1) 10 J (2) 16 J
- (3) 4 J (4) 6 J

9. An object falls from a height of 10 m above the ground. After striking the ground it loses 50% of its kinetic energy. The height upto which the object can rebounce from the ground is:

(1)	7.5 m	(2)	10 m
(3)	2.5 m	(4)	5 m

10. In the circuit shown below, the inductance *L* is connected to an ac source. The current flowing in the circuit is $I = I_0 \sin \omega t$. The voltage drop (*V*_L) across *L* is



11. A 12 pF capacitor is connected to a 50 V battery, the electrostatic energy stored in the capacitor in nJ is

- (1) 15 (2) 7.5
- (3) 0.3 (4) 150

12. A uniform wire of diameter *d* carries a current of 100 mA when the mean drift velocity of electrons in the wire is *v*. For a wire of diameter $\frac{d}{2}$ of the same material to carry a current of 200 mA, the mean drift velocity of electrons in the wire is

(1)	4 <i>v</i>	(2)	8 <i>v</i>
(3)	v	(4)	2 <i>v</i>



- 13. In an electrical circuit, the voltage is measured as $V = (200 \pm 4)$ volt and the current is measured as $I = (20 \pm 0.2)$ A. The value of the resistance is:
 - (1) $(10 \pm 4.2) \Omega$ (2) $(10 \pm 0.3) \Omega$ (3) $(10 \pm 0.1) \Omega$ (4) $(10 \pm 0.8) \Omega$

14. A step up transformer is connected to an ac mains supply of 220 V to operate at 11000 V, 88 watt. The current in the secondary circuit, ignoring the power loss in the transformer, is

- (1) 8 mA (2) 4 mA
- (3) 0.4 A (4) 4 A
- 15. A particle is moving along *x*-axis with its position (*x*) varying with time (*t*) as $x = \alpha t^4 + \beta t^2 + \gamma t + \delta$. The ratio of its initial velocity to its initial acceleration, respectively, is:

(1)	2α:δ	(2) γ : 2δ
(3)	4α:β	(4) γ:2β

16. The radius of gyration of a solid sphere of mass 5 kg about XY is 5 m as shown in figure. The radius of the sphere $\frac{5x}{\sqrt{7}}$ m, then the value of x is:





The I-V characteristics shown above are exhibited by a:

- (1) Light emitting diode
- (2) Zener diode
- (3) Photodiode
- (4) Solar cell

18. The magnetic moment and moment of inertia of a magnetic needle as shown are, respectively, 1.0×10^{-2} A m² 10^{-6} 10^{-6

and $\frac{10^{-6}}{\pi^2}$ kg m². If it completes 10 oscillations in 10 s, the magnitude of the magnetic field is:

- (1) 0.4 T (3) 0.4 mT (4) 4 mT
- 19. The capacitance of a capacitor with charge q and a potential difference V depends on :
 - (1) both q and V (2) the geometry of the capacitor
 - (3) *q* only

(4) *V* only

answer from the options given below :

20. Given below are two statements:

Image formation needs regular reflection and/or refraction.

The variety in colour of objects we see around us is due to the constituent colours of the light incident on them.

In the light of the above statements, choose

- (1) Statement I is correct but statement II is incorrect
- (2) Statement I is incorrect but Statement II is correct
- (3) Both Statement I and Statement II are correct
- (4) Both Statement I and Statement II are incorrect
- ^{21.} A uniform metal wire of length *I* has 10 Ω resistance. Now this wire is stretched to a length 2*I* and then bent to form a perfect circle. The equivalent resistance across any arbitrary diameter of that circle is :
 - (1) 10Ω (2) 5Ω
 - (3) 40Ω (4) 20Ω
- 22. The spectral series which corresponds to the electronic transition from the levels $n_2 = 5, 6,...$ to the level $n_1 = 4$ is
 - (1) Pfund series (2) Brackett series
 - (3) Lyman series (4) Balmer series



23. Given below are two statements: One is labelled as

Houses made of concrete roofs overlaid with foam keep the room hotter during summer.

and the other is labelled as

answer from the options given below.

The layer of foam insulation prohibits heat transfer, as it contains air pockets.

In the light of the above statements, choose the

- (1) is true but is false.
- (2) is false but is true.
- (3) Both and are true and is the correct explanation of .
- (4) Both and true but is NOT the correct explanation of .
- 24. A particle executing simple harmonic motion with amplitude *A* has the same potential and kinetic energies at the displacement
 - (1) $2\sqrt{A}$ (2) $\frac{A}{2}$ (3) $\frac{A}{\sqrt{2}}$ (4) $A\sqrt{2}$
- ^{25.} Two slits in Young's double slit experiment are 1.5 mm apart and the screen is placed at a distance of 1 m from the slits. If the wavelength of light used is 600×10^{-9} m then the fringe separation is
 - (1) 4×10^{-5} m (3) 4×10^{-7} m (2) 9×10^{-8} m (4) 4×10^{-4} m
- 26. Water is used as a coolant in a nuclear reactor because of its

(1)	high thermal expansion coeffic	ient	(2)	high specific heat capacity
(3)	low density	redit	(4)	low boiling point

27. The pitch of an error free screw gauge is 1 mm and there are 100 divisions on the circular scale. While measuring the diameter of a thick wire, the pitch scale reads 1 mm and 63rd division on the circular scale coincides with the reference line. The diameter of the wire is:

(1)	1.63 cm	(2)	0.163 cm
(3)	0.163 m	(4)	1.63 m

28. Let us consider two solenoids *A* and *B*, made from same magnetic material of relative permeability μ_r and equal area of cross-section. Length of *A* is twice that of *B* and the number of turns per unit length in *A* is half that of *B*. The ratio of self inductances of the two solenoids, $L_A : L_B$ is

(1)	1:2	(2)	2 : 1

(3) 8:1 (4) 1:8



- (1) NAND gate (2) NOR gate
- (3) AND gate (4) OR gate

30. Interference pattern can be observed due to superposition of the following waves:

Α.	$y = a \sin \omega t$	В.	<i>y</i> = <i>a</i> sin2∞t
C.	$y = a \sin(\omega t - \omega t)$	þ) D.	<i>y</i> = <i>a</i> sin3տ <i>t</i>
Cho	ose the	answer from the options given below.	
(1)	B and C	(2)	B and D
(3)	A and C	(4)	A and B

31.

If ϕ is the work function of photosensitive material in eV and light of wavelength of numerical value $\lambda = \frac{hc}{e}$

metre, is incident on it with energy above its threshold value at an instant then the maximum kinetic energy of the photo-electron ejected by it at that instant (Take *h*-Planck's constant, *c*-velocity of light in free space) is (in SI units):

(2) $2e - \phi$ (4) $e + \phi$

- (1) *e* + 2∳
- (3) *e*− ¢

32. The electromagnetic radiation which has the smallest wavelength are

- (1) X-rays
 (2) Gamma rays
 (3) Ultraviolet rays
 (4) Microwaves
- 33. The equilibrium state of a thermodynamic system is described by
 - A. Pressure
 - B. Total heat
 - C. Temperature
 - D. Volume
 - E. Work done

Choose the

answer from the options given below.

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



Some energy levels of a molecule are shown in the figure with their wavelengths of transitions. Then: 34.



35. A box of mass 5 kg is pulled by a cord, up along a frictionless plane inclined at 30° with the horizontal. The tension in the cord is 30 N. The acceleration of the box is (Take $g = 10 \text{ m s}^{-2}$)

(1)	2 m s ⁻²	(2)	Zero
(3)	0.1 m s ⁻²	(4)	1 m s ⁻²

36. If the ratio of relative permeability and relative permittivity of a uniform medium is 1 : 4. The ratio of the magnitudes of electric field intensity (E) to the magnetic field intensity (H) of an EM wave propagating in that oundation medium is

$$\left(\begin{array}{ccc} \text{Given that } \sqrt{\frac{\mu_0}{\epsilon_0}} = 120 \ \pi \right): \\ (1) \quad 30\pi: 1 \\ (3) \quad 60\pi: 1 \end{array} \right) (2) \quad 1: 120\pi \\ (4) \quad 120\pi: 1 \end{array}$$

The value of electric potential at a distance of 9 cm from the point charge 4×10^{-7} C is 37.

Gi	$\operatorname{ven} \frac{1}{4\pi\varepsilon_0} = 9 \times 10^9 \mathrm{N} \mathrm{m}^2 \mathrm{C}^{-2} \mathrm{]}:$		
(1)	4 × 10 ² V	(2)	44.4 V
(3)	4.4 × 10 ⁵ V	(4)	4 × 104 V

- The displacement of a travelling wave $y = C \sin \frac{2\pi}{\lambda}$ (at -x) where t is time, x is distance and λ is the 38. wavelength, all in S.I. units. Then the frequency of the wave is:
 - 2πλ 2π**a** λ (2) (1)а
 - $\frac{\lambda}{a}$ $\frac{a}{\lambda}$ (3) (4)



39. An object of mass 100 kg falls from point A to B as shown in figure. The change in its weight, corrected to the nearest integer is (R_E is the radius of the earth):



(4) 10 N (3) 5 N

40.

The potential energy of a particle moving along x-direction varies as $V = \frac{Ax^2}{\sqrt{x+B}}$. The dimensions of $\frac{A^2}{B}$ are:

(1)	$\left[M^{3/2} L^{1/2} T^{-3}\right]$	(2)	$\left[M^{\frac{1}{2}}LT^{-3}\right]$
(3)	$\left[M^2 L^{\frac{1}{2}} T^{-4} \right]$	(4)	[ML ² T ⁻⁴]

41. The two-dimensional motion of a particle, described by $\vec{r} = (\hat{i} + 2\hat{j}) A \cos \omega t$ is a/an: Foundatio

Aedic

- Α. parabolic path
- Β. elliptical path
- C. periodic motion
- D. simple harmonic motion

Choose the correct answer from the options given below:

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

(1)

(3) $\frac{l_0}{2}(4)$

- (2) A, B and C only
- (4) C and D only
- 42. A beam of unpolarized light of intensity I_0 is passed through a polaroid A, then through another polaroid B, oriented at 60° and finally through another polaroid C, oriented at 45° relative to B as shown. The intensity of emergent light is:





- 43. Select the correct statements among the following :
 - A. Slow neutrons can cause fission in $^{235}_{92}$ U than fast neutrons.
 - B. α-rays are Helium nuclei.

(1) 32 cm

(3) 16 cm

- C. β-rays are fast moving electrons or positrons.
- D. γ-rays are electromagnetic radiations of wavelengths larger than X-rays.

Choose the		answer from the options gi	ven below :
(1)	A, B and C only	(2)	A, B and D only
(3)	A and B only	(4)	C and D only

- 44. Let ω_1 , ω_2 and ω_3 be the angular speed of the second hand, minute hand and hour hand of a smoothly running analog clock, respectively. If x_1 , x_2 and x_3 are their respective angular distances in 1 minute then the factor which remains constant (*k*) is
 - (1) $\frac{\omega_1}{x_1} = \frac{\omega_2}{x_2} = \frac{\omega_3}{x_3} = k$ (2) $\omega_1 x_1 = \omega_2 x_2 = \omega_3 x_3 = k$ (3) $\omega_1 x_1^2 = \omega_2 x_2^2 = \omega_3 x_3^2 = k$ (4) $\omega_1^2 x_1 = \omega_2^2 x_2 = \omega_3^2 x_3 = k$
- 45. The magnetic moment of an iron bar is M. It is now bent in such a way that it forms an arc section of a circle subtending an angle of 60° at the centre. The magnetic moment of this arc section is

(1)	$\frac{3M}{\pi}$	(2)	<u>4Μ</u> π
(3)	$\frac{M}{\pi}$	(4)	<u>2Μ</u> π

46. The given circuit shows a uniform straight wire AB of 40 cm length fixed at both ends. In order to get zero reading in the galvanometer G, the free end of J is to be placed from B at:



47. According to the law of equipartition of energy, the number of vibrational modes of a polyatomic gas of constant

 $\gamma = \frac{C_p}{C_v}$ is (*C_P* where C_V are the specific heat capacities of the gas at constant pressure and constant volume, respectively):

- (1) $\frac{4+3\gamma}{\gamma-1}$
- $(2) \quad \frac{3+4\gamma}{\gamma-1}$
- $(3) \quad \frac{4-3\gamma}{\gamma-1}$
- $(4) \quad \frac{3-4\gamma}{\gamma-1}$
- 48. The output Y for the inputs A and B of the given logic circuit is :



49. The amplitude of the charge oscillating in a circuit decreases exponentially as $Q = Q_0 e^{-Rt/2L}$, where Q_0 is the charge at *t* = 0s. The time at which charge amplitude decreases to 0.50 Q_0 is nearly:

[Given that $R = 1.5 \Omega$, L = 12 mH, $\ln(2) = 0.693$]

- (1)
 19.01 ms
 (2)
 11.09 ms

 (3)
 19.01 s
 (4)
 11.09 s
- 50. The steady state current in the circuit shown below is :

					10	∨ ⊢–	2 <u>9</u> 	Ω ₩—	1
						 	_5 9 	Ω ₩—	
					5 µ	ιF	3 <u>9</u>	Ω ₩—	
(1)	0.67 A						(2)	1.5	5 A
(3)	2 A						(4)	1 A	٩



51.	The	decreasing order of atomic radii (pm) of Li, Be, B and C is
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- (1) Be > Li > B > C (2) Li > Be > B > C
- (3) C > B > Be > Li (4) Li > C > Be > B
- 52. Following data is for a reaction between reactants A and B :

2 × 10 ⁻³	0.1 M	0.1 M
4 × 10 ⁻³	0.2 M	0.1 M
1.6 × 10 ⁻²	0.2 M	0.2 M

The order of the reaction with respect to A and B, respectively, are

- (1) 1,0 (2) 0, 1
- (3) 1, 2 (4) 2, 1

53. Given below are two statements:

oundation Propene on treatment with diborane gives an addition product with the formula $((CH_3)_2 - CH_{-3}B_1)$

Oxidation of $((CH_3)_2 - CH_3)B$ with hydrogen peroxide in presence of NaOH gives propan-2-

ol.

In the light of the above statements, choose the

answer from the options given below:

(1)	is correct but	is incorrect
、 /		

- (2) is incorrect but is correct
- (3) Both and are correct
- (4) Both and are incorrect
- 54. Baeyer's reagent is :
 - (1) Acidic potassium permanganate solution
 - (2) Acidic potassium dichromate solution
 - (3) Cold, dilute, aqueous solution of potassium permanganate
 - (4) Hot, concentrated solution of potassium permanganate

55. Which of the following molecules has "NON ZERO" dipole moment value?

- (1) CCl₄
- (3) CO₂ (4) BF₃
- The major product X formed in the following reaction sequence is: 56.



57. Which indicator is used in the titration of sodium hydroxide against oxalic acid and what is the colour change T-JEE Found at the end point?

(2) HI

- (1) Phenolphthalein, pink to yellow
- (2) Alkaline KMnO₄, colourless to pink
- (3) Phenolphthalein, colourless to pink
- (4) Methyl orange, yellow to pinkish red colour

58.	Match	List-I	with	List-II :	
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Α.	Nitrogen atom	١.	Paramagnetic
В.	Fluorine molecule	II.	Most reactive element in group 18
C.	Oxygen molecule	III.	Element with highest ionisation enthalpy in group 15
D.	Xenon atom	IV.	Strongest oxidising agent

answer from the options given below : Identify the

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

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

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

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



- 59. From the following select the one which is an example of corrosion.
 - (1) Rusting of iron object
 - (2) Production of hydrogen by electrolysis of water
 - (3) Tarnishing of silver
 - (4) Development of green coating on copper and bronze ornaments

60. Which of the following pairs of ions will have same spin only magnetic moment values within the pair?

- A. Zn²⁺, Ti²⁺
- B. Cr²⁺, Fe²⁺
- C. Ti³⁺, Cu²⁺
- D. V²⁺, Cu⁺

Choose the answer from the options given below :

- (1) C and D only (2) A and D only
- (3) A and B only (4) B and C only
- 61. At a given temperature and pressure, the equilibrium constant values for the equilibria are given below:

(2) K₂ =

(4) K₂ = -

 $3A_2 + B_2 \rightleftharpoons 2A_3B, K_1$

$$A_{3}B \rightleftharpoons \frac{3}{2}A_{2} + \frac{1}{2}B_{2}, K_{2}$$

The relation between K1 and K2 is :

- (1) $K_1^2 = 2K_2$
- $(3) \quad K_1 = \frac{1}{\sqrt{K_2}}$
- 62. Arrange the following compounds in increasing order of their solubilities in chloroform: NaCl, CH₃OH, cyclohexane, CH₃CN
 - (1) NaCl < CH_3CN < CH_3OH < Cyclohexane
 - (2) $CH_3OH < CH_3CN < NaCl < Cyclohexane$
 - (3) NaCl < CH₃OH < CH₃CN < Cyclohexane
 - (4) Cyclohexane $< CH_3CN < CH_3OH < NaCl$
- 63. Identify the statement about PCI₅.
 - (1) PCI_5 possesses two different CI P CI bond angles
 - (2) All five P CI bonds are identical in length
 - (3) PCl₅ exhibits sp^3d hybridisation
 - (4) PCI_5 consists of five P CI (sigma) bonds



- 64. Choose the correct statement for the work done in the expansion and heat absorbed or released when 5 litres of an ideal gas at 10 atmospheric pressure isothermally expands into vacuum until volume is 15 litres :
 - (1) Both the heat and work done will be greater than zero
 - (2) Heat absorbed will be less than zero and work done will be positive
 - (3) Work done will be zero and heat will also be zero
 - (4) Work done will be greater than zero and heat will remain zero
- 65. The correct IUPAC name of the compound



- (1) 4-ethyl-1-fluoro-2-nitrobenzene
- (3) 3-ethyl-6-fluoro-1-nitrobenzene
- (2) 4-ethyl-1-fluoro-6-nitrobenzene
- (4) 1-ethyl-4-fluoro-3-nitrobenzene
- 66. Which of the following set of ions act as oxidising agents?
 - (1) Ce⁴⁺ and Tb⁴⁺
 - (3) Eu²⁺ and Yb²⁺

- (2) La³⁺ and Lu³⁺
- (4) Eu²⁺ and Tb⁴⁺
- 67. Select the reaction among the following:
 - (1) $CH_3COCI \xrightarrow{H_2O} CH_3COOH$

	CONF	1 ₂	COOH
(2)	\bigcirc	$\xrightarrow{(i) \text{ LiAlH}_4}$	\bigcirc

- (3) $CH_3CH_2OH \xrightarrow{(i) KMnO_4/OH^-} CH_3COOH$ (ii) H_3O^{\oplus}
- (4) $CH_3CH_2CH_2OH \xrightarrow{CrO_3 H_2SO_4} CH_3CH_2COOH$
- 68. The UV-visible absorption bands in the spectra of lanthanoid ions are 'X', probably because of the excitation of electrons involving 'Y'. The 'X' and 'Y', respectively, are :
 - (1) Broad and f orbitals

(2) Narrow and f orbitals

(3) Broad and d and f orbitals

(4) Narrow and d and f orbitals



- 69. Ethylene diaminetetraacetate ion is a/an:
 - (1) hexadentate ligand (2) ambidentate ligand
 - (3) monodentate ligand (4) bidentate ligand

70.	The amount of glucose required to prepare 2	50 mL of $\frac{M}{20}$ aqueous solution is :
	(Molar mass of glucose : 180 g mol⁻¹)	
	(1) 2.25 g	(2) 4.5 g
	(3) 0.44 g	(4) 1.125 g

- 71. Identify the statement from the following :
 - (1) The acidic strength of HX (X = F, Cl, Br and I) follows the order : HF > HCl > HBr > HI.
 - (2) Fluorine exhibits –1 oxidation state whereas other halogens exhibit +1, +3, +5 and +7 oxidation states also.

EElFoundations

- (3) The enthalpy of dissociation of F_2 is smaller than that of Cl_2 .
- (4) Fluorine is stronger oxidising agent than chlorine.
- 72. For the reaction in equilibrium

 $N_2(g) + 3H_2(g) \rightleftharpoons 2NH_3(g), \Delta H = -Q$

Reaction is favoured in forward direction by:

- (1) use of catalyst
- (2) decreasing concentration of N2
- (3) low pressure, high temperature and high concentration of ammonia
- (4) high pressure, low temperature and higher concentration of H₂
- 73. The major product D formed in the following reaction sequence is:

$$CH_{3}OH \xrightarrow{SOCI_{2}} A \xrightarrow{KCN} B \xrightarrow{Na(Hg)} C$$

$$(i) NaNO_{2} + (ii) H_{2}O$$

$$(ii) H_{2}O$$

$$(major)$$

$$(1) CH_{3} - C - H - (2) CH_{3} + (1) CH_{2}O$$

$$(3) CH_{3}CH_{2}OH - (4) CH_{3}CH_{2}CI$$



74. Match List-I with List-II:

Α.	Lanthanoid	I.	Ce
В.	d-block element	II.	As
C.	p-block element	III.	Cs
D.	s-block element	IV.	Mn

answer from the options given below: Choose the

- (1) A-I, B-II, C-IV, D-III (2) A-I, B-IV, C-III, D-II
- (3) A-I, B-IV, C-II, D-III (4) A-IV, B-I, C-II, D-III
- 75. Which of the following is an ambidentate ligand?
 - (1) $C_2 O_4^{2-}$

(2) SCN-

(4) CN-

- (3) NO_2^-
- 76. The quantum numbers of four electrons are given below :

(3)
$$NO_2^-$$
 (4) CN^-
The quantum numbers of four electrons are given below :
I. $n = 4; l = 2; m_l = -2; s = -\frac{1}{2}$
II. $n = 3; l = 2; m_l = 1; s = +\frac{1}{2}$
III. $n = 4; l = 1; m_l = 0; s = +\frac{1}{2}$

IV. $n = 3; I = 1; m_1 = -1; s = +\frac{1}{2}$

The decreasing order of energy of these electrons is

- $|\vee > || > ||| > |$ (2) |>|||>||>|V (1)
- (3) ||| > | > || > |V (4) | > || > ||| > |V
- 77. The major product C in the below mentioned reaction is:

 $CH_{3}CH_{2}CH_{2}Br \xrightarrow{alc. KOH} A \xrightarrow{HBr} B \xrightarrow{aq. KOH} C$ (1) Propan-1-ol (2) Propan-2-ol (3) Propane (4) Propyne





82. A steam volatile organic compound which is immiscible with water has a boiling point of 250°C. During steam distillation, a mixture of this organic compound and water will boil :

- (1) above 100°C but below 250°C
- (2) above 250°C
- (3) at 250°C
- (4) close to but below 100°C



Glycogen is similar to amylose in its structure.

Glycogen is found in yeast and fungi also.

In the light of the above statements, choose the

answer from the options given below :

(1)		is true but	is false.
(2)		is false but	is true.
(3)	Both	and	are true.
(4)	Both	and	are false.

84. The oxidation states shown by Mn in given reaction is :

3Mi	$nO_4^{2-} + 4H^+ \longrightarrow 2MnO_4^- +$	$+MnO_2 + 2H_2O$	
Α.	+6		
В.	+2		
C.	+4		
D.	+7		
E.	+3		13
Cho	ose the	answer from the options gi	ven below :
(1)	D and E only	(2)	B and D only
(3)	A and B only	(4)	B and E only
		dicall.	
Give	en below are two statemer	nts: Neon	

85. Given below are two statements:

The Balmer spectral line for H atom with lowest energy is located at $\frac{5}{36}$ R_H cm⁻¹.

(R_H = Rydberg constant)

When the temperature of blackbody increases, the maxima of the curve (intensity of wavelength) shifts to shorter wavelength.

In the light of the above statements, choose the

answer from the options given below:

- (1) is true but is false (2) is false but is true (3) Both and are true
- (4) Both and are false



Identify D in the following sequence of reactions: 86.



1

(3) propanal

- (2) isopropyl alcohol
- (4) propionic acid

- Identify the statement. 87.
 - (1) PEt₃ and AsPh₃ as ligands can form $d\pi$ - $d\pi$ bond with transition metals
 - (2) The N N single bond is as strong as the P P single bond
 - Nitrogen has unique ability to form $p\pi$ - $p\pi$ multiple bonds with nitrogen, carbon and oxygen (3)
 - Nitrogen cannot form $d\pi$ -p π bond as other heavier elements of its group (4)
- 88. Match with

Α.	Lake Test	I.	NO ₃
В.	Nessler's Reagent	П.	Fe ³⁺
C.	Potassium sulphocyanide	111.	Al ³⁺
D.	Brown Ring Test	IV.	NH_4^+
Cho	ose the answer from the options given be	elow	
(1)	A-IV, B-II, C-III, D-I	(2)	A-II, B-IV, C-III, D-I
(3)	A-II, B-III, C-IV, D-I	(4)	A-III, B-IV, C-II, D-I
	410		

89. Match List-I with List-II:

Α.	HCI	I.	435.8
В.	N ₂	II.	498
C.	H ₂	III.	946.0
D.	O2	IV.	431.0

Choose the correct answer from the options given below:

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

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

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

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

90. The standard cell potential of the following cell Zn|Zn²⁺ (aq)|Fe²⁺(aq)|Fe is 0.32 V. Calculate the standard Gibbs energy change for the reaction :

 $Zn(s) + Fe^{2+}(aq) \rightarrow Zn^{2+}(aq) + Fe(s)$

(Given : 1 F = 96487 C)

- (1) $-61.75 \text{ kJ mol}^{-1}$ (2) $+5.006 \text{ kJ mol}^{-1}$
- (3) $-5.006 \text{ kJ mol}^{-1}$ (4) $+61.75 \text{ kJ mol}^{-1}$
- 91. Match List-I will List-II:

Α.	effervescence	of colourless gas	I.	NO_2^-
В.	gas with smel	of rotten egg	П.	CO_{3}^{2-}
C.	gas with pungent smell		III.	S ²⁻
D.	brown fumes		IV.	SO ₃ ²⁻
Cho	ose the	answer from the options given b	elow:	
(1)	A-II, B-III, C-I\	/, D-I	(2)	A-IV, B-III, C-II, D-I

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

92. The ratio of solubility of AgCl in 0.1 M KCl solution to the solubility of AgCl in water is:

(Given : Solubility product of AgCl = 10^{-10})						
(1)	10-4		(2)			

(3) 10⁻⁹ (4)

93. On complete combustion, 0.3 g of an organic compound gave 0.2 g of CO₂ and 0.1 g of H₂O. The percentage composition of carbon and hydrogen in the compound, respectively is:

10⁻⁶ 10⁻⁵

- (1) 4.07% and 15.02% (2) 18.18% and 3.70%
- (3) 15.02% and 4.07% (4) 3.70% and 18.18%
- 94. The following reaction method



is not suitable for the preparation of the corresponding haloarene products, due to high reactivity of halogen, when X is :

- (1) F (2) I
- (3) CI (4) Br



05	The alkane that can be oxidized to the corresponding alcohol by $KMnO_4$ as per the equation							
00.	R_{4} R_{4}							
	R ₃	К 3						
	is, when: (1) $\mathbf{D} = \mathbf{U} \cdot \mathbf{D} = \mathbf{L}$		(2)					
	(1) $R_1 = H; R_2 = F$	1; К3 = П	(Z)	$R_1 = CH_3; R_2 = CH_3; R_3 = CH_3$				
	(3) $R_1 = CH_3; R_2$	= H; K3 = H	(4)	$R_1 = CH_3; R_2 = CH_3; R_3 = H$				
96.	For the following re	eaction at 300 K						
	$A_2(g) + 3B_2(g) \to 2$	AB ₃ (g)						
	the enthalpy chang	e is +15 kJ, then the internal	l energy ch	nange is :				
	(1) 19988.4 J		(2)	200 J				
	(3) 1999 J		(4)	1.9988 kJ				
97.	Rate constants of energy of the react	a reaction at 500 K and 700 ion is :) K are 0.0	04 s ⁻¹ and 0.14 s ⁻¹ , respectively; then, activat	tion			
	(Given: log3.5 = 0.	5441, R = 8.31 J K⁻¹ mol⁻¹)						
	(1) 182310 J		(2)	18500 J				
	(3) 18219 J		(4)	18030 J				
				undat				
98.	Mass of glucose (C 15 g L ^{_1} solution of	C₀H₁2O₀) required to be disso urea (NH₃CONH₂) is (Given	lved to pre : Molar ma	epare one litre of its solution which is isotone v ass in g mol ^{_1} C : 12, H : 1, O : 16, N : 14)	vith			
	(1) 55 g		(2)	15 g				
	(3) 30 g	1:02	(4)	45 g				
		Mean						
99.	[Mn ₂ (CO) ₁₀] and [C	o ₂ (CO) ₈] structures have						
	A. Metal-Metal li	nkage	В.	Terminal CO groups				
	C. Bridging CO g	roups	D.	Metal in zero oxidation state				
	Choose the	answer from the options give	ven below					

- (1) Only A, B, C (2) Only B, C, D
- (3) Only A, C, D (4) Only A, B, D

100. Methyl group attached to a positively charged carbon atom stabilizes the carbocation due to

- (1) –I inductive effect (
 - (2) electromeric effect
- (3) hyperconjugation (4
- (4) mesomeric effect



BOTANY

SECTION-A

- The regions with high level of species richness, high degree of endemism and a loss of 70% of the species 101. and habitat are identified as:
 - (1) Natural Reserves
 - (2) Sacred Groves
 - (3) Biodiversity Hotspots
 - (4) Biogeographical Regions

Answer (3)

- 102. Which of the following simple tissues are commonly found in the fruit walls of nuts and pulp of pear?
 - (1) Sclereids
 - (2) Fibres
 - (3) Parenchyma
 - (4) Collenchyma

Answer (1)

- 103. In a chromosome, there is a specific DNA sequence, responsible for initiating replication. It is called as: Medicallin-JEE
 - (1) Recognition sequence
 - (2) Cloning site
 - (3) Restriction site
 - (4) ori site

Answer (4)

104. Given below are two statements:

Statement I: When many alleles of a single gene govern a character, it is called polygenic inheritance.

Statement II: In Polygenic inheritance, the effect of each allele is additive.

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

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

Answer (2)



Which of the following are required for the light reaction of Photosynthesis?

Choose the **correct** answer from the options given below:

Β.

D.

0,

Chlorophyll

Re-Examination of NEET (UG)-2024 (Code-C1)

105.

Α.

C.

 CO_2

H₂O

(1) A, C, D and E only

E. Light

Re-Examination of NEET (UG)-2024 (Code-C1)



- 108. Which part of the ovule stores reserve food materials?
 - (1) Nucellus
 - (2) Integument
 - (3) Placenta
 - (4) Funicle

Answer (1)

- 109. Which one of the following is **not** found in Gymnosperms?
 - (1) Sieve cells
 - (2) Albuminous cells
 - (3) Tracheids
 - (4) Vessels

Answer (4)

- 110. Which one of the following is not included under in-situ conservation?
 - (1) Wild-life sanctuary
 - (2) Botanical garden
 - (3) Biosphere reserve
 - (4) National park

Answer (2)

111. Given below are two statements:

Statement I : The Indian Government has set up GEAC, which will make decisions regarding the validity of GM research.

Foundations

Statement II : Biopiracy is the term used to refer to the use of bio-resources by native people.

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

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

Answer (1)

- 112. Pollen grains remain preserved as fossils due to the presence of :
 - (1) Epidermal layer
 - (2) Tapetum
 - (3) Exine layer
 - (4) Intine layer

Answer (3)



- 113. Identify the incorrect pair :
 - (1) Sphenopsida Adiantum _
 - (2) Pteropsida _ Dryopteris
 - (3) Psilopsida Psilotum _
 - (4) Lycopsida Selaginella

Answer (1)

- 114. Which of the following is the **correct** match?
 - (1) Gymnosperms • Cedrus, Pinus, Sequoia
 - (2) Angiosperms Wolffia, Eucalyptus, Sequoia :
 - (3) Bryophytes Polytrichum, Polysiphonia, Sphagnum :
 - (4) Pteridophytes : Equisetum, Ginkgo, Adiantum

Answer (1)

115. Given below are two statements regarding RNA polymerase in prokaryotes.

Statement I: In prokaryotes, RNA polymerase is capable of catalysing the process of elongation during transcription.

Statement II: RNA polymerase associate transiently with 'Rho' factor to initiate transcription.

- In the light of the above statements, choose the **correct** answer from the options given below :
- (1) Statement I is true but Statement II is false
- (2) Statement I is false but Statement II is true
- Medicallin (3) Both Statement I and Statement II are true
- (4) Both Statement I and Statement II are false

Answer (1)

- 116. Which of the following is a nucleotide?
 - (1) Uridine
 - (2) Adenylic acid
 - (3) Guanine
 - (4) Guanosine

Answer (2)

117. Match List-I with List-II:

	List-I		List-II
A.	Vexillary aestivation	I.	Brinjal
В.	Epipetalous stamens	II.	Peach
C.	Epiphyllous stamens	III.	Pea
D.	Perigynous flower	IV.	Lily

Choose the correct answer from the options given below :

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

Answer (1)



Match List-I with List-II: 118.

List-II List-I Α. China rose Ι. Free central Basal B. Mustard П. C. Primrose III. Axile D. Marigold IV. Parietal

Choose the correct answer from the options given below :

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

Answer (3)

- 119. Which of the following helps in maintenance of the pressure gradient in sieve tubes?
 - (1) Albuminous cells
 - (2) Sieve cells
 - (3) Phloem parenchyma
 - (4) Companion cells

Answer (4)

- 120. Mesosome in a cell is a :
 - (1) Membrane bound vesicular structure
- ElFoundations (2) Chain of many ribosomes attached to a single mRNA
 - (3) Special structure formed by extension of plasma membrane
 - (4) Medium sized chromosome

Answer (3)

121. Match List-I with List-II :

List-I

- Abscisic acid Α.
- Β. Ethylene
- C. Gibberellin
- Cytokinin D.

List-II

- Ι. Promotes female flowers in cucumber
- П. Helps seeds to withstand desiccation
- III. Helps in nutrient mobilisation
- IV. Promotes bolting in beet, cabbage etc

Choose the **correct** answer from the options given below:

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

Answer (3)



122. Match List-I with List-II :

		List-I		List-II
	A.	Genetically engineered Human Insulin	I.	Gene therapy
	В.	GM Cotton	II.	E. coli
	C.	ADA Deficiency	III.	Antigen-antibody interaction
	D.	ELISA	IV.	Bacillus thuringiensis
	Cho	ose the correct answer from the options give	n belov	N:
	(1)	A-III, B-II, C-IV, D-I		
	(2)	A-II, B-I, C-IV, D-III		
	(3)	A-IV, B-III, C-I, D-II		
	(4)	A-II, B-IV, C-I, D-III		
	Ans	wer (4)		
123.	Mato	ch List-I with List-II:)	
		List-I		List-II
	Α.	ETS Complex I		NADH Dehydrogenase
	В.	ETS Complex II	II.	Cytochrome bC1
	C.	ETS Complex III	WI.	Cytochrome C oxidase
	D.	ETS Complex IV	IV.	Succinate Dehydrogenase
	Cho	ose the correct answer from the options giver	n belov	N :

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

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

Answer (2)

- 124. Cryopreservation technique is used for :
 - (1) Protection of environment
 - (2) Protection of Biodiversity hotspots
 - (3) Preservation of gametes in viable and fertile condition for a long period
 - (4) In-situ conservation

Answer (3)



- 125. Which of the following are **correct** about cellular respiration?
 - Cellular respiration is the breaking of C-C bonds of complex organic molecules by oxidation. Α.
 - В. The entire cellular respiration takes place in Mitochondria.
 - C. Fermentation takes place under anaerobic condition in germinating seeds.
 - D. The fate of pyruvate formed during glycolysis depends on the type of organism also.
 - E. Water is formed during respiration as a result of O₂ accepting electrons and getting reduced.

Choose the **correct** answer from the options given below:

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

Answer (1)

126. Given below are two statements:

Statement I: In eukaryotes there are three RNA polymerases in the nucleus in addition to the RNA polymerase found in the organelles.

Statement II: All the three RNA polymerases in eukaryotic nucleus have different roles.

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

- (1) Statement I is correct but Statement II is incorrect
- (2) Statement I is incorrect but Statement II is correct
- (3) Both Statement I and Statement II are correct
- (4) Both Statement I and Statement II are incorrect

Answer (3)

Match List-I with List-II: 127.

Stateme	ent I is incorrect but Statement II is co	orrect	
Both Sta	atement I and Statement II are correct	ot	ions
Both Sta	atement I and Statement II are incorr	ect	datio
wer (3)			auna
h List-l	with List-II:		e FO
	List-I	1.7	List-II
А.	Histones	I.	Loosely packed chromatin
В.	Nucleosome	II.	Densely packed Chromatin
C.	Euchromatin	III.	Positively charged basic proteins
D.	Heterochromatin	IV.	DNA wrapped around histone octamer

Choose the **correct** answer from the options given below:

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



128. Given below are two statements:

> Statement I: Failure of segregation of chromatids during cell cycle resulting in the gain or loss of whole set of chromosome in an organism is known as aneuploidy.

> Statement II: Failure of cytokinesis after anaphase stage of cell division results in the gain or loss of a chromosome is called polyploidy.

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

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

Answer (4)

- 129. Recombination between homologous chromosomes is completed by the end of
 - (1) Diakinesis
 - (2) Zygotene
 - (3) Diplotene
 - (4) Pachytene

Answer (4)

Match List-I with List-II: 130.

wer (4) ch List-l v	vith List-II:		
	List-I	. Ý	List-II
А.	Metacentric chromosome		Chromosome has a terminal centromere
В.	Sub-metacentric chromosome	n.	Middle centromere forming two equal arms of chromosome
C.	Acrocentric chromosome	111.	Centromere is slightly away from the middle of chromosome resulting into two unequal arms
D.	Telocentric chromosome	IV.	Centromere is situated close to its end forming one extremely short and one very long arm

Choose the **correct** answer from the options given below:

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

Re-Examination of NEET (UG)-2024 (Code-C1)



Ligases is a class of enzymes responsible for catalysing the linking together of two compounds. 131.

Which of the following bonds is not catalysed by it?

- (1) C C
- (2) P O
- (3) C O
- (4) C N

Answer (1)

- 132. F. Skoog observed that callus proliferated from the internodal segments of tobacco stem when auxins was supplied with one of the following except :
 - (1) Extract of Vascular tissues
 - (2) Coconut milk
 - (3) Abscisic acid
 - (4) Yeast Extract

Answer (3)

- 133. Given below are some statements about plant growth regulators. IIT-JEE Foundations
 - All Gas are acidic in nature. Α.
 - Β. Auxins are antagonists to Gas.
 - Zeatin was isolated from coconut milk. C.
 - Ethylene induces flowering in Mango. D.
 - E. Abscisic acid induces parthenocarpy.

Choose the correct set of statements from the option given below:

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

Answer (1)

- Identify the incorrect statement related to get electrophoresis. 134.
 - (1) Separated DNA fragments can be directly seen under UV radiation
 - (2) Separated DNA can be extracted from get piece
 - (3) Fragment of DNA moves toward anode
 - (4) Sieving effect of agarose gel helps in separation of DNA fragments

Answer (1)



Which of the following examples show monocarpellary, unilocular ovary with many ovules? 135.

- Α. Sesbania
- Β. Brinjal
- C. Indigofera
- D. Tobacco
- E. Asparagus

Choose the correct answer from the options given below :

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

Answer (4)

SECTION-B

136. Given below are two statements :

> Statement I: In the lac operon, the z gene codes for beta-galactosidase which is primarily responsible for the hydrolysis of lactose into galactose and glucose.

Statement II: In addition to lactose, glucose or galactose can also induce lac operon.

In the light of the above statements, choose the correct answer from the options given below : III-JEE Foundati

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

Answer (1)

The part marked as 'x' in the given figure is 137.



- (1) Endosperm
- (2) Thalamus
- (3) Endocarp
- (4) Mesocarp

Answer (2)

Re-Examination of NEET (UG)-2024 (Code-C1)



138. Given below are two statements:

Statement I: In a dicotyledonous leaf, the adaxial epidermis generally bears more stomata than the abaxial epidermis.

Statement II: In a dicotyledonous leaf, the adaxially placed palisade parenchyma is made up of elongated cells, which are arranged vertically and parallel to each other.

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

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

Answer (2)

- Which of the following are not fatty acids? 139.
 - Glutamic acid Α.
 - Β. Arachidonic acid
 - C. Palmitic acid
 - D. Lecithin
 - E. Aspartic acid

Icallin-JEE Foundations Choose the correct answer from the options given below :

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

Answer (3)

140. Consider the pyramid of energy of an ecosystem given below:



If T_4 is equivalent to 1000 J, what is the value at T_1

- (1) $\frac{10000}{10}$ J
- $\frac{10000}{10} \times 4 J$ (2)
- (3) 10,000 J
- (4) 10,00,000 J



- 141. Which one of the following products diffuses out of the chloroplast during photosynthesis?
 - (1) ADP
 - (2) NADPH
 - (3) O₂
 - (4) ATP

Answer (3)

142. Recombinant DNA molecule can be created normally by cutting the vector DNA and source DNA respectively with:

- (1) Hind II, Hind II
- (2) Hind II, Alu I
- (3) Hind II, EcoR I
- (4) Hind II, BamHI

Answer (1)

- 143. Which one of the following is not a limitation of ecological pyramids?
 - (1) Saprophytes are not given any place of ecological pyramids
 - (2) It assumes a simple food chain, that almost never exists in nature
 - (3) It accommodates a food web
 - (4) It does not take into account the same species belonging to two or more trophic levels Medicallur JEE Foundations

Answer (3)

- 144. The *Bt* toxin in genetically engineered *Bt* cotton kills the pest by:
 - (1) Creating pores in the midgut
 - (2) Damaging the respiratory system
 - (3) Degenerating the nervous system
 - (4) Altering the pH of body fluids

List-I

Answer (1)

145. Match List-I with List-II:

Organisms

Mode of Nutrition

- Α. Euglenoid I. Parasitic
- Β. Dinoflagellate Π. Saprophytic
- C. Slime mould III. Photosynthetic
- D. Plasmodium
- Switching between photosynthetic and heterotrophic mode

Choose the **correct** answer from the options given below:

IV.

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

Answer (3)

Re-Examination of NEET (UG)-2024 (Code-C1)





Answer (1)

- 147. When will the population density increase, under special conditions? When the number of :
 - (1) Deaths exceeds number of births and also number of emigrants equals number of immigrants.
 - (2) Births plus number of immigrants equals number of deaths plus number of emigrants.
 - (3) Births plus number of emigrants is more than the number of deaths plus number of immigrants.
 - (4) Births plus number of immigrants is more than the sum of number of deaths and number of emigrants.

Answer (4)

- 148. When a tall pea plant with round seeds was selfed, it produced the progeny of :
 - (a) Tall plants with round seeds and
 - (b) Tall plants with wrinkled seeds.

Identify the genotype of the parent plant.

- (1) TtRr
- (2) TtRR
- (3) TTRR
- (4) TTRr



149. Match List-I with List-II:

	List-I		List-II
Α.	Biodiversity hotspot	I.	Khasi and jantia hills in Meghalaya
В.	Sacred groves	II.	World Summit on Sustainable
C.	Johannesburg South Africa	III.	Parthenium
D.	Alien species invasion	IV.	Western Ghats

Choose the **correct** answer from the options given below:

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

Answer (1)

150. Observe the given figure. Identify the different stages labelled with alphabets by selecting the **correct** option.



- (1) A-Carboxylation, B-Regeneration, C-Reduction
- (2) A-Reduction, B-Decarboxylation, C-Regeneration
- (3) A-Carboxylation, B-Reduction, C-Regeneration
- (4) A-Reduction, B-Carboxylation, C-Regeneration

Answer (3)



ZOOLOGY

SECTION-A

151. Match List-I with List-II:

	List I		List II
Α.	Predator	Ι.	Ophrys
В.	Mutualism	II.	Pisaster
C.	Parasitism	III.	Female wasp and fig
D	Sexual deceit	IV.	Plasmodium

Chose the correct answer from the options given below:

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

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

Answer (4)

152. Match List-I with List-II:

	List I		List II
	Location of Joint	J	Type of Joint
A.	Joint between humerus and pectoral girdle	1.	Gliding joint
В.	Knee joint	П.	Ball and Socket joint
C.	Joint between atlas and axis	111.	Hinge joint
D	Joint between carpals	IV.	Pivot joint

Chose the correct answer from the options given below:

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

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

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

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

Answer (1)

- 153. Following are the steps involved in action of toxin in Bt. Cotton
 - A. The inactive toxin converted into active form due to alkaline pH of gut of insect.
 - B. Bacillus thuringiensis produce crystals with toxic insecticidal proteins.
 - C. The alkaline pH solubilises the crystals.
 - D. The activated toxin binds to the surface of midgut cells, creates pores and causes death of the insect.
 - E. The toxin proteins exist as inactive protoxins in bacteria.

Choose the correct sequence of steps from the options given below:

- (1) $E \to C \to B \to A \to D$ (2) $B \to C \to A \to E \to D$
- $(3) \quad A \to E \to B \to D \to C \tag{4} \quad B \to E \to C \to A \to D$



154. Match List-I with List-II:

	List I		List II
А.	Gene pool	١.	Stable within a generation
В.	Genetic drift	II.	Change in gene frequency by chance
C.	Gene flow	III.	Transfer of genes into or out of population
D	Gene frequency	IV.	Total number of genes and their alleles

Choose the correct answer from the options given below:

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

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

Answer (2)

155. Which evolutionary phenomenon is depicted by the sketch given in figure?



- 157. Enzymes that catalyse the removal of groups from substrates by mechanisms other than hydrolysis leaving double bonds, are known as :
 - (1) Transferases

(2) Oxidoreductases

(4) Lyases

- (3) Dehydrogenases

158. Match List-I with List-II.

	List-I		List-II
	Evenet		Stage of Prophase-I (Meiosis-I)
Α.	Chiasmata formation	I.	Pachytene
В.	Crossing over	II.	Diakinesis
C.	Synaptonemal complex formation	III.	Diplotene
D.	Terminalisation of chiasmata	IV.	Zygotene

Choose the correct answer from the options given below :

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

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

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

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

Answer (1)

159. Match List-I with List-II.

	List-I		List-II	
Α.	Primary structure of protein	I.	Human haemoglobin	
В.	Secondary structure of protein	U.	Dispulphide bonds	15
C.	Tertiary structure of protein	Ш.	Polypeptide chain	ation
D.	Quaternary structure of protein	IV.	Alpha helix and β sheet	
Choose the correct answer from the options given below :				
(1)	A-III, B-IV, C-II, D-I		(2) A-III, B-II,	C-I, D-IV
(3)	A-I, B-III, C-II, D-IV	X	(4) A-IV, B-III	, C-II, D-I
Answer (1)				
Mate	h List-Lwith List-II			

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

Answer (1)

160. Match List-I with List-II.

	List-I		List-II
Α.	Epinephrine	I.	Hyperglycemia
В.	Thyroxine	II.	Smooth muscle contraction
C.	Oxytocin	III.	Basal metabolic rate
D.	Glucagon	IV.	Emergency hormone

Choose the correct answer from the options given below :

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

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

Answer (3)



- 161. Which of the following statements is **correct** about the type of junction and their role in our body?
 - (1) Adhering junctions facilitate the cells to communicate with each other.
 - (2) Tight junctions help to stop substances from leaking across a tissue.
 - Tight junctions help to perform cementing to keep neighbouring cells together. (3)
 - Gap junctions help to create gap between the cells and tissues. (4)

Answer (2)

- 162. Select the restriction endonuclease enzymes whose restriction sites are present for the tetracycline resistance (tet^R) gene in the pBR322 cloning vector.
 - (1) Bam HI and Sal I
 - (2) Sal I and Pst I
 - (3) Pst I and Pvu I
 - (4) Pvu I and Bam HI

Answer (1)

163. Match List-I with List-II.

	List-I		List-II
Α.	Chondrichthyes	I.	Clarias
В.	Cyclostomata	П.	Carcharodon
C.	Osteichthyes	III.	Myxine
D.	Amphibia	IV.	Ichthyophis

Choose the correct answer from the options given below: MedicallIT

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

Answer (3)

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

Assertion A: During menstrual cycle, the ovulation takes place approximately on 14th day.

Reason R: Rapid secretion of LH in the middle of menstrual cycle induces rupture of Graafian follicle and thereby the release of ovum.

In the light of the above statements, choose the most appropriate answer from the options given below.

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

Answer (3)

NEET (UG)-2024 (Code-C1)

165. Match List-I with List-II with respect to convergent evolution:

	List-I		List-II
Α.	Lemur	Ι.	Flying phalanger
В.	Bobcat	11.	Numbat
C.	Anteater	III.	Spotted cuscus
D.	Flying squirrels	IV.	Tasmanian tiger cat

Choose the **correct** answer from the options given below:

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

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

Answer (1)

166. Match List-I with List-II.

	List-I		List-II
Α.	Cells are metabolically active and proliferate	I.	G ₂ phase
В.	DNA replication takes place	II.	G₁ phase
C.	Proteins are synthesised	11.	G₀ phase
D.	Quiescent stage with metabolically active cells	IV.	S phase

Choose the **correct** answer from the options given below:

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

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

Answer (4)

167. Match List-I with List-II.

	List-I		List-II
Α.	Migratory flamingoes and resident fish in South American lakes	I.	Interference competition
В.	Abingdon tortoise became extinct after introduction of goats in their habitat	Π.	Competitive release
C.	Chathamalus expands its distributional range in the absence of Balanus	III.	Resource Partitioning
D.	Five closely related species of Warblers feeding in different locations on same tree	IV.	Interspecific competition

Choose the **correct** answer from the options given below:

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

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

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

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

Answer (2)

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168. Match List-I with List-II relating to microbes and their products:

	List-I (Microbes)		List-II (Products)
Α.	Streptococcus	I.	Citric acid
В.	Trichoderma polysporum	II.	Clot buster
C.	Monascus purpureus	III.	Cyclosporin A
D.	Aspergillus niger	IV.	Statins

Choose the **correct** answer from the options given below:

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

Answer (1)

169. Match List-I with List-II.

	List-I		List-II
Α.	F1 Particles	I.	Chromosomes
В.	Histones	П.	Cilia
C.	Axoneme	Ш.	Golgi apparatus
D.	Cisternae	IV.	Mitochondria

Choose the **correct** answer from the options given below:

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

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

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

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

Answer (2)

170. Match List-I with List-II relating to examples of various kind of IUDs and barrier:

	List-I		List-II
Α.	Copper releasing IUD	I.	Vaults
В.	Non-medicated IUD	II.	Multiload 375
C.	Contraceptive barrier	III.	LNG-20
D.	Hormone releasing IUD	IV.	Lippes loop

Choose the **correct** answer from the options given below:

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

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

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

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

NEET (UG)-2024 (Code-C1)



171. Given below are two statements:

Statement I: Antibiotics are chemicals produced by microbes that kill other microbes.

Statement II: Antibodies are chemicals formed in body that eliminate microbes.

In the light of the above statements, choose the most appropriate answer from the options given below.

- (1) Statement I is correct but Statement II is incorrect
- (2) Statement I is incorrect but Statement II is correct
- (3) Both Statement I and Statement II are correct
- (4) Both Statement I and Statement II are incorrect

Answer (3)

- 172. Arrange the following parts in human Mammary gland, traversing the route of milk ejection.
 - Α. Mammary duct Β. Lactiferous duct
 - C. Mammary alveolus D. Ampulla
 - Ε. Mammary tubule

Choose the correct answer from the options given below:

- (2) $C \rightarrow E \rightarrow B \rightarrow A \rightarrow D$ (1) $D \rightarrow C \rightarrow E \rightarrow A \rightarrow B$
- (3) $C \rightarrow E \rightarrow A \rightarrow D \rightarrow B$

(4) $A \rightarrow C \rightarrow E \rightarrow D \rightarrow B$

Answer (3)

- 173. Which of the following are correct about EcoR1?
 - Cut the DNA with blunt end Α.
 - В. Cut the DNA with sticky end
 - Recognise a specific palindromic sequence C.
- EEFoundations Cut the DNA between the base G and A when encounters the DNA sequence 'GAATTC' D.
 - Ε. Exonuclease

Choose the correct answer from the options given below:

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

Answer (4)

- 174. Which of the following is/are present in female cockroach?
 - A. Collateral gland В. Mushroom gland
 - C. Spermatheca D. Anal style
 - E. Phallic gland

Choose the most appropriate answer from the options given below:

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



175. Math List-I with List-II:

	List I		List II
А.	Malignant tumors	١.	Destroy tumors
В.	MALT	II.	AIDS
C.	NACO	III.	Metastasis
D	α-Interferons	IV.	Lymphoid tissue

Choose the correct answer from the options given below:

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

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

- Answer (1)
- 176. Open Circulatory system is present in:
 - (1) Palaemon, Nereis, Balanoglossus
 - (2) Hirudinaria, Bombyx, Salpa
 - (3) Anopheles, Limax, Limulus
 - (4) Pheretima, Musca, Pila

Answer (3)

dicallin-JFF Foun 177. In which of the following connective tissues, the cells secrete fibres of collagen or elastin?

- Α. Cartilage
- Done Β.
- C. Adipose tissue
- D. Blood
- E. Areolar tissue

Choose the most appropriate answer from the options given below :

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

Answer (2)

- 178. Which of the following pairs is an **incorrect** match?
 - (1) Annelids and arthropods-Bilateral symmetry
 - (2) Sponges-Acoelomates
 - (3) Coelenterates and Ctenophores-Radial symmetry
 - (4) Platyhelminthes-Diploblastic organisation



179. Match List-I with List-II:

	List-I		List-II
Α.	Residual Volume	I.	Maximum volume of air that can be breathed in after forced expiration
В.	Vital Capacity	II.	Volume of air inspired or expired during normal respiration
C.	Expiratory Capacity	111.	Volume of air remaining in lungs after forcible expiration
D.	Tidal Volume	IV.	Total volume of air expired after normal inspiration

Choose the **correct** answer from the options given below:

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

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

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

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

Answer (3)

180. Match List-I with List-II:

	List-I		List-II
Α.	Living Fossil	I.	Elongated canine teeth
В.	Connecting Link	П.	Vermiform appendix
C.	Vestigial Organ	Ш.	Echidna
D.	Atavism	IV.	Latimeria

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Choose the **correct** answer from the options given below:

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

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

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

Answer (1)

181. Match List-I with List -II

	List-I		List-II
А.	Schwann cells	I.	Neurotransmitter
В.	Synaptic knob	II.	Cerebral cortex
C.	Bipolar neurons	III.	Myelin sheath
D.	Multipolar neurons	IV.	Retina

Choose the correct answer from the options given below:

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

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

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

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

Answer (1)



- 182. Diuresis is prevented by:
 - (1) Renin from JG cell via switching off the osmoreceptors
 - (2) ANF from adrenal medulla
 - (3) Aldosterone from adrenal medulla
 - (4) Vasopressin from Neurohypophysis

Answer (4)

183. Following is the list of STD's. Select the discases which are not completely curable.

Α.	Genital warts	В.	Genital herpes
С	Syphilis	D	Hepatius-B
E	Trichomoniasis		

Choose the correct answer from the options given below:

- (1) A and D only
- (3) A and C only
- Answer (2)

184. What is the correct order (old to recent) of periods in Paleozoic era?

- (1) Silurian, Devonian, Permian, Carboniferous
- (3) Permian, Devonian, Silurian, Carboniferous
- Answer (2)
- 185. 'Lub' sound of Heart is caused by the_
 - (1) closure of the semilunar values
 - (3) opening of the semilunar valves
 - Answer (4)

- (2) Silurian, Devonian, Carboniferous, Permian
- (4) Silurian, Carboniferous, Permian, Devonian
- (2) opening of tricuspid and bicuspid values
- (4) closure of the tricuspid and bicuspid valves

SECTION-B

(2) B and D only

(4) D and E only

186. Match List-I with List-II relating to human female external genitalia.

	List I		List II
	(Structures)		(Features)
a.	Mons pubis	(i)	A fleshy fold of tissue surrounding the vaginal opening
b.	Clitoris	(ii)	Fatty cushion of cells covered by skin and hair
C.	Hymen	(iii)	Tiny finger-like structure above labia minora
d	Labina majora	(iv)	A thin membrane-like structure covering vaginal opening

Choose the correct answer from the option given below :

(1) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)

(2) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)

(3) (a)-(i), (b)-(iv), (c)-(iii), (d)-(ii)

(4) (a)-(ii), (b)-(iii), (c)-(i), (d)-(iv)

Answer (1)

NEET (UG)-2024 (Code-C1)



- 187. Aneuploidy is a chromosomal disorder where chromosome number is not the exact copy of its haploid set of chromosomes, due to :
 - (a) Substitution
 - (b) Addition
 - (c) Deletion
 - Translocation (d)
 - (e) Inversion

Choose the most appropriate answer from the options given below :

- (1) (c) and (d) only
- (2) (d) and (e) only
- (3) (a) and (b) only
- (4) (b) and (c) only

Answer (4)

188. Given below are two statements :

Statement I: RNA interference takes place in all Eukaryotic organisms as method of cellular defense.

Statement II: RNAi involves the silencing of a specific mRNA due to a complementary single-stranded RNA molecule that binds and prevents translation of mRNA

In the light of the above statements, choose the **correct** answer from the options given below. F-JEE Foundat

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

Answer (1)

- 189. Identify the wrong statements :
 - (A) Erythropoietin is produced by juxtaglomerular cells of the kidney
 - (B) Leydig cells produce Androgens
 - (C) Atrial Natriuretic factor, a peptide hormone is secreted by the seminiferous tubules of the testes
 - (D) Cholecystokinin is produced by gastrointestinal tract
 - (E) Gastrin acts on intestinal wall and helps in the production of pepsinogen

Choose the most appropriate answer from the options given below :

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

Answer (3)



- 190. Following are the steps involved in the process of PCR.
 - a. Annealing
 - b. Amplification (~1 billion times)
 - c. Denaturation
 - d. Treatment with Taq polymerase and deoxynucleotides
 - e. Extension

Choose the correct sequence of steps of PCR from the options given below :

(1)	$c \rightarrow a \rightarrow d \rightarrow e \rightarrow b$	(2)	$a \rightarrow b \rightarrow e \rightarrow d \rightarrow c$

 $(3) \quad a \to c \to e \to d \to b \qquad \qquad (4) \quad d \to b \to e \to c \to a$

Answer (1)

191. Given below are two statements:

Statements I: Concentrated urine is formed due to counter current mechanism in nephron.

Statement II: Counter current mechanism helps to maintain osmotic gradient in the medullary interstitium.

In the light of the above statements, choose the most appropriate answer from the options given below.

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

Answer (3)

192. Given below are two statements:

Statement I: Concentrically arranged cisternae of Golgi complex are arranged near the nucleus with distinct convex cis or maturing and concave *trans* or forming face.

Statement II: A number of proteins are modified in the cisternae of Golgi complex before they are released from *cis* face.

In the light of the above statements, choose the correct answer from the option given below.

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

193. Match List-I with List-II:

List-I

- A. Parturition
- B. Placenta
- C. Colostrum
- D. Fimbriae

(4) Both Statement I and Statement II are false

(2) Statement I is false but Statement II is true.

List-II

- I. Several antibodies for new-born babies
- II. Collection of ovum after ovulation

dations

- III. Foetal ejection reflex
- IV. Secretion of the hormone hCG

Choose the correct answer from the option given below:

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

Answer (1)

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

NEET (UG)-2024 (Code-C1)



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

Assertion A: Members of subphylum vertebrates possess notochord during the embryonic period. The notochord is replaced by a cartilaginous or bony vertebral column in the adult.

Reason R: Thus all chordates are vertebrates not all vertebrates are chordates.

In the light of the above statements choose the correct answer from the option given below.

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

Answer (1)

- 195. The mother has A+ blood group the father has B+ and the child is A+. What can be the possibility of genotypes of all three, respectively?
 - (A) $I^{A}I^{A} | I^{B}i | I^{B}i$ (B) |A|A| |Bi| |Ai|(C) $I^{B}i \mid I^{A}I^{A} \mid I^{A}I^{B}$ IAIA | IBIB | IAI (D)
 - (E) $I^{A}i \mid I^{B}i \mid I^{A}i$

Choose the correct answer from the option given below:

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

Answer (4)

dations What do 'a' and 'b' represent in the following population growth curve? 196.



- (1) 'a' represents exponential growth when responses are not limiting the growth; and 'b' represents logistic growth when responses are limiting the growth.
- (2) 'a' represents logistic growth when responses are not limiting the growth; 'b' represents exponential growth when responses are limiting the growth.
- (3) 'a' represents carrying capacity and 'b' shows logistic growth when responses are limiting the growth.
- (4) 'a' represents exponential growth when responses are not limiting the growth and 'b' shows carrying capacity.





197. Select the correct statements regarding mechanism of muscle contraction.

- It is initiated by a signal sent by CNS via sensory neuron. Α.
- Β. Neurotransmitter generates action potential in the sarcolemma.
- C. Increased Ca⁺⁺ level leads to the binding of calcium with troponin on action filaments.
- D. Masking of active site for actin is activated.
- Ε. Utilising the energy from ATP hydrolysis to form cross bridge.

Choose the most appropriate answer from the options given below:

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

Answer (1)

198. Match List I with List II :

	List - I		List – II	
Α.	Squamous Epithelium	I.	Goblet cells of alimentary canal	
В.	Ciliated Epithelium	II.	Inner lining of pancreatic ducts	
C.	Glandular Epithelium	111.	Walls of blood vessels	/
D.	Compound Epithelium	IV.	Inner surface of Fallopian tubes	0

Choose the correct answer from the options given below :

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

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

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

Answer (4)

199. Match List I with List II:

	List - I		List – II
А.	B-Lymphocytes	I.	Passive immunity
В.	Interferons	П.	Cell mediated immunity
C.	T-Lymphocytes	III.	Produce an army of proteins in response to pathogens
D.	Colostrum	IV.	Innate immunity

Choose the correct answer from the options given below :

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

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

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

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

Answer (3)

NEET (UG)-2024 (Code-C1)



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

Assertion A: During the transportation of gases, about 20-25 percent of CO₂ is carried by Haemoglobin as carbamino-haemoglobin.

Reason R: This binding is related to high $p CO_2$ and low $p O_2$ in tissues.

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

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

Answer (3)



Medicallin-TEE Foundations