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**RE-NEET**



**NEW LIGHT**

**INSTITUTE**

Medical | Foundation

**ALL INDIA**

**FULL SYLLABUS**

**TEST SERIES 2024-25**

**NATIONAL ELIGIBILITY-CUM-ENTRANCE TEST**

**SOLUTION**

# PHYSICS

## SECTION-A

1. (2) [NCERT XI-I-7]

$$P_1 = 60 \text{ J/MIN} = 1 \text{ J/SEC}$$

$$P_2 = P_1 \left[ \frac{M_1}{M_2} \right]^1 \left[ \frac{L_1}{L_2} \right]^2 \left[ \frac{T_1}{T_2} \right]^{-3}$$

$$P_2 = 1 \left[ \frac{1000}{100} \right]^1 \left[ \frac{100}{100} \right]^2 \left[ \frac{1}{60} \right]^{-3}$$

$$P_2 = 2.16 \times 10^6 \text{ units}$$

2. (2) [NCERT XI-I-4]

As per the rule for determining the number of significant figures, there is no change in number of significant figures on changing the units.

In 4.700 m = 4700mm, there is no change in significant figures i.e. it remains same as 4.

Thus, the statement given in option (2) is incorrect,

rest are correct

3. (1) [NCERT XI-I-9]

Let the relationship can be written as

$$F = kr^a \eta^b v^c$$

$$[MLT^{-2}] = [L]^a [ML^{-1}T^{-1}]^b [LT^{-1}]^c$$

$$= [M^b L^{a-b+c} T^{-b-c}]$$

Comparing powers of M, L and T on either side of the equation, we get

$$b = 1$$

$$a - b + c = 1$$

$$-b - c = -2$$

On solving these three equations, we get

$$a = 1, b = 1, \text{ and } c = 1$$

Hence, the relation becomes  $F = kr\eta v$

4. (1) [NCERT XI-I-21]

$$t = \sqrt{\frac{2d}{g}}$$

$$t = \sqrt{\frac{2 \times 0.21}{9.8}} \approx 0.2 \text{ sec}$$

5. (3) [NCERT XI-I-15]

Since velocity is a vector quantity, having both magnitude and direction, so a change in velocity may involve change in either or both of these factors.

Acceleration, therefore may result from a change in speed (magnitude), a change in direction or changes in both

6. (2) [NCERT XI-I-34]

7. (3) [NCERT XI-I-40]

$$t = \sqrt{\frac{2 \times 490}{9.8}} = 10 \text{ sec}$$

$$V_y = 0 - 9.8 \times 10 = -98 \text{ ms}^{-1}$$

$$V = \sqrt{V_x^2 + V_y^2} = \sqrt{15^2 + 98^2} \approx 99$$

8. (3) [NCERT XI-I-54]

According to figure, radius of semi-circle,  $r = 2$

Linear momentum gained = Impulse from 0 to 4 s

= Area enclosed by graph from 0 to 4 s

$$= \frac{\pi r^2}{2} = \frac{\pi(2)^2}{2} = 2\pi \text{ N-s}$$

9. (1) [NCERT XI-I-60]

When a person walks on the road, he exerts a force on floor. According to Newton's third law of motion, a reaction force exerts on the person which is being provided by the frictional force. Thus, the frictional force helps a person to walk on a rough surface. Thus, the statement given in option (1) is incorrect, rest are correct

10. (1) [NCERT XI-I-]

This is the case of work done by a variable force,

$$W = \int_0^5 (3x^2 - 2x + 7) dx = 135 \text{ J}$$

11. (3) [NCERT XI- I- 76]  
It is given that, force acting on a body is inversely proportional to its velocity.

$$F \propto \frac{1}{v}$$

$$F = \frac{k}{v} \Rightarrow ma = \frac{k}{v}$$

$$m \frac{dv}{dt} = \frac{k}{v} \Rightarrow \int mv dv = \int k dt$$

$$m \frac{v^2}{2} = kt \Rightarrow KE \propto t$$

Kinetic energy of body starting from rest is directly proportional to time.

12. (2) [NCERT XI- 80]

$$F = K_1 x_1 \text{ and } F = K_2 x_2$$

$$K_1 x_1 = K_2 x_2$$

$$\Rightarrow \frac{k_1}{k_2} = \frac{x_2}{x_1} \Rightarrow \frac{(PE)_1}{(PE)_2} = \frac{k_1 x_1^2}{k_2 x_2^2}$$

$$\frac{(PE)_1}{(PE)_2} = \frac{k_1}{k_2} \left( \frac{k_2}{k_1} \right)^2 = \frac{k_2}{k_1} = \frac{3}{2}$$

13. (3) [NCERT XI-I 76]

14. (2) [NCERT XI- I- 99]

$$v_{cm} = \frac{m_1 v_1 + m_2 v_2 + m_3 v_3}{m_1 + m_2 + m_3}$$

$$= \frac{5 \times 5 + 4 \times 4 + 2 \times 2}{5 + 4 + 2} \approx 4 \text{ m/s}$$

15. (1) [NCERT XI- I- 114]  
Ratio of their moment of inertia

$$\frac{I_1}{I_2} = \frac{\frac{m_1 r_1^2}{2}}{\frac{m_2 r_2^2}{2}} = \frac{m_1}{m_2} \cdot \left( \frac{r_1}{r_2} \right)^2 = \frac{1}{2} \left( \frac{2}{1} \right)^2$$

$$\frac{I_1}{I_2} = \frac{2}{1}$$

16. (2) [NCERT XI-I-63]  
According to theory:

$$\frac{mv^2}{R} \leq \mu_s mg$$

$$v \leq \sqrt{\mu_s Rg}$$

17. (1) [NCERT XI - I-133]  
Since, acceleration due to gravity decreases above the surface of the earth and weight is directly proportional to the acceleration due to gravity, so as we go up, we feel light weighted than on the surface of the earth.  
Therefore, Assertion and Reason are correct and Reason is the correct explanation of Assertion

18. (1) [NCERT XI -II- 198]

19. (2) [NCERT XI -II- 168]

$$\text{Strain} = \frac{\text{Change in length}}{\text{Original length}} = \frac{2L - L}{L} = 1$$

20. (2) [NCERT XI -II- 224]

$$\left| \frac{\Delta \rho}{\rho} \right| = \frac{\Delta V}{V} = \gamma \Delta T$$

$$\left| \frac{\Delta \rho}{\rho} \right| = 5 \times 10^{-4} \times 40 = 0.020$$

21. (2) [NCERT XI -II- 219]  
According to Newton's law of cooling, the rate of loss of heat is directly proportional to the difference in temperature of the body and its surroundings.

22. (2) [NCERT XI-234]  
In isothermal process of an ideal gas,  $\Delta U = 0$   
so

$$\Delta Q = \Delta W$$

$$\Delta W = +20J$$

$$\Delta Q = +20J$$

23. (3) [NCERT XI-I- 248]  
In collision of a molecule of an ideal gas with the wall of container, total kinetic energy and total momentum will remain conserved, as the collisions between molecules among them selves or between molecules and the walls are elastic.

24. (4) [NCERT - 185]

$$U(x) = \frac{1}{2}kA^2 \cos^2 \omega t$$

$$\text{at } t = \left(\frac{T}{4}\right)$$

$$U(x) = \frac{1}{2}kA^2 \cos^2 \omega \left(\frac{2\pi}{T} \times \frac{T}{4}\right)$$

$$U(x) = 0$$

25. (2) [NCERT - 184]

Transverse wave speed over a string is given by

$$v = \sqrt{\frac{T}{\mu}}$$

$$\frac{v}{\frac{v}{2}} = \sqrt{\frac{T_1}{T}} \Rightarrow T = \frac{T_1}{4} = \frac{2.016 \times 10^4}{4}$$

$$\Rightarrow T = 5.15 \times 10^3 N$$

26. (2) [NCERT XII-I-52,53]

27. (3) [NCERT XII-I-76]

28. (1) [NCERT XII-I-60]

29. (1) [NCERT XII-I-106]

30. (4) [NCERT XII-I-80]

31. (4) [NCERT XII-I-77]

32. (3) [NCERT XII-I-105]

33. (2) [NCERT XII-I-106]

34. (3) [NCERT XII-I-88]

35. (4) [NCERT- XII-I-113]

$$r = \frac{mv}{qB} = \frac{9 \times 10^{-31} \times 3 \times 10^7}{1.6 \times 10^{-19} \times 6 \times 10^{-4}}$$

$$r = 28 \times 10^{-2} m$$

$$r = 28 cm$$

SECTION-B

36. (3) [NCERT- XII-I-117]

$$B = \frac{\mu_0 NI}{2R} = \frac{4\pi \times 10^{-7} \times 10^2 \times 1}{2 \times 10^{-1}}$$

$$B = 2\pi \times 10^{-4} = 6.28 \times 10^{-4} T$$

37. (1) [NCERT XII-I-152]

$$\tau = MB \sin \theta \Rightarrow M = \frac{\tau}{B \sin \theta}$$

$$M = \frac{4.5 \times 10^{-2}}{0.25 \sin 30^\circ} \Rightarrow M = 0.36 \frac{J}{T}$$

38. (4) [NCERT XII-I-137,138]

39. (2) [NCERT-XII-I-159]

The angle  $\theta$  made by the area vector of the coil with the magnetic field is  $45^\circ$ . the initial magnetic flux is

$$\Phi = BA \cos \theta \Rightarrow \frac{0.1 \times 10^{-2}}{\sqrt{2}}$$

Final flux  $\Phi_{\min} = 0$

The change in flux is brought about in 0.70 s. the magnitude of the induced emf is given by

$$\mathcal{E} = \frac{|\Delta \Phi_B|}{\Delta t} = \frac{|\Phi_B - 0|}{\Delta t} = \frac{10^{-3}}{\sqrt{2} \times 0.7} = 1.0 mV$$

And the magnitude of the current is

$$I = \frac{\mathcal{E}}{R} = \frac{10^{-3}}{0.5} = 2 mA$$

40. (1) [NCERT-XII-I-162]

41. (3) [NCERT-XII-I-183]

The inductive reactance

$$X_L = 2\pi fL = 2 \times \pi \times 50 \times 25 \times 10^{-3} \Omega$$

The rms current in the circuit is

$$I = \frac{V}{X_L} = \frac{220}{7.85} = 28 A$$

42. (4) [NCERT-XII-I-214]

$$E_o = B_o c = 510 \times 10^{-9} \times 3 \times 10^8 = 153 N/C$$

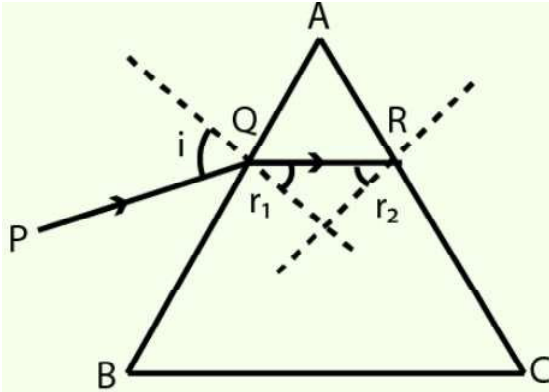
43. (2) [NCERT-XII-II-251]

The refracted ray QR will just suffer total internal reflection if it is incident at the critical angle  $i_c$

$$\sin i_c = \frac{1}{\mu} = \frac{1}{1.5424} = 0.66 \Rightarrow \sin^{-1}(0.66) = 41^\circ$$

$$r_1 + r_2 = A \Rightarrow r_1 = A - r_2 = A - i_c$$

$$\Rightarrow r_1 = A - r_2 = A - i_c = 60^\circ - 41^\circ = 19^\circ$$



$$\mu = \frac{\sin i}{\sin r_1} \Rightarrow \sin i = \mu \times \sin r_1 = 1.524 \times \sin 19^\circ$$

$$\sin i = 1.524 \times 0.3256 = 0.4962$$

$$\text{hence } i = \sin^{-1}(0.4962) = 30^\circ$$

44. (4) [NCERT-XII-II-249]

$$\frac{1}{f} = (1.55 - 1) \left( \frac{1}{R} - \frac{1}{(-R)} \right)$$

$$\frac{1}{20} = (1.55 - 1) \left( \frac{2}{R} \right) \Rightarrow R = 22 \text{ cm}$$

45. (2) [NCERT-XII-II-273]

$$\lambda = \frac{1.2 \times 10^{-2} \times 0.28 \times 10^{-3}}{4 \times 1.4} \text{ m} = 600 \text{ nm}$$

46. (1) [NCERT-XII-II-289]

$$E = h(v - v_0) = \frac{1}{2} m v^2$$

$$v_0 = v - \frac{m v^2}{2h}$$

$$v_0 = 7.21 \times 10^{14} - \frac{9.1 \times 10^{-31} (6 \times 10^5)^2}{2 \times 6.626 \times 10^{-34}}$$

$$v_0 = 4.73 \times 10^{14} \text{ Hz}$$

47. (3) [NCERT-XII-II-273]

$$\frac{1}{\lambda} = R \left( \frac{1}{1^2} - \frac{1}{4^2} \right) \Rightarrow \lambda = \frac{16}{15R} = 972 \text{ \AA}$$

$$\lambda = 97 \text{ nm}$$

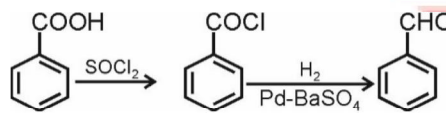
48. (2) [NCERT-XII-II-310]

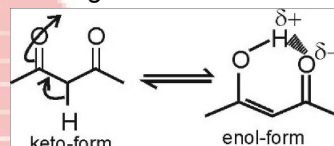
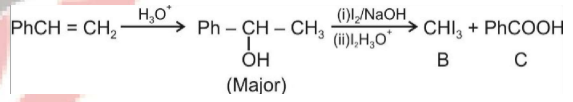
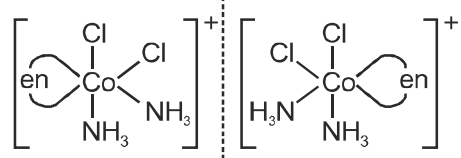
49. (3) [NCERT-XII-II-332]

50. (3) [NCERT-XII-II-341]

## CHEMISTRY

### SOLUTION

51. (3) [NCERT-XII-II-285]  
Glucose does not form hydrogensulphite addition product with  $\text{NaHSO}_3$ .
52. (2) [NCERT-XII-II-240]  
The compounds which contain ketomethyl group or which in reaction condition generate ketomethyl group will give positive iodoform test ( $\text{I}_2/\text{NaOH}$ )  
Acetone and ethanol, both will give positive iodoform test hence this test can not be used to distinguish them.
53. (4) [NCERT-XI-I-176]  
54. (1) [NCERT-XI-II-266]  
55. (4) [NCERT-XI-I-202, 203]  
Sodium phenoxide is salt of weak acid and strong base.
- $$\begin{aligned} \text{pH} &= 7 + \frac{1}{2}(\text{p}K_a + \log C) \\ &= 7 + \frac{1}{2}(9.95 + \log 0.2) \\ &= 7 + \frac{1}{2}(9.95 - 0.7) \\ &= 11.6 \end{aligned}$$
56. (3) [NCERT-XI-I-192]  
The species which can donate its lone pair of electrons to an electron deficient species is called as Lewis base.
57. (4) [NCERT-XII-II-232]  

58. (4) [NCERT-XII-II-173]  
Tertiary alkyl halide react fastest by  $\text{S}_{\text{N}}1$  mechanism as the carbonium ion formed by the removal of  $-\text{Br}$  is most stable.
59. (4) [NCERT-XI-I-20]  
 $\text{N}_2 + 3\text{H}_2 \rightarrow 2\text{NH}_3$   
Mole of  $\text{N}_2 = 28/28 = 1$   
Mole of  $\text{H}_2 = 10/2 = 5$   
 $\text{H}_2$  is present in excess amount therefore  $\text{N}_2$  is limiting reagent.  
Mole of ammonia produced = 2.
60. (2) [NCERT-XII-I-5]  
Mass of urea =  $60 \times 5 = 300 \text{ g}$   
Mass of water = 1000 g  
Mass of solution = 1300 g  
$$\text{Mass \%} = \frac{300}{1300} \times 100 = 23.1 \%$$

61. (1) [NCERT-XII-II-210]  
Secondary alcohol on reaction with copper gives ketone as major product.
62. (3) [NCERT-XI-II-270]  
The phenomenon in which different organic compounds having same molecular formula possess different physical or chemical properties is called isomerism. In (3), the two compounds have different molecular formula.
63. (2) [NCERT-XII-I-123]  
The correct IUPAC name of  $[\text{CuCl}_2(\text{CH}_3\text{NH}_2)_2]$  is dichloro bis (methyl amine) copper (II).
64. (2) [NCERT-XI-II-270]  
Methylene hydrogen present between two carbonyl groups are highly acidic in nature and the enol formed is stabilised by intramolecular Hydrogen bonding.
- 
65. (2) [NCERT-XI-II-332]  
The cyclic species in which  $(4n + 2)\pi$ -electrons are delocalised in the ring ( $n = 1, 2, 3, \dots$ )
66. (1) [NCERT-XII-II-240]  

67. (2) [NCERT-XI-II-239]  
 $\text{H}_3\text{PO}_2$  is hypophosphorous acid oxidation state of P in  $\text{H}_3\text{PO}_2$  is +1.
68. (4) [Old NCERT-XII-I-186]  
Dissociation constant of  $\text{H}_2\text{Te}$  is highest hence it is the strongest acid among the given options.
69. (2) [NCERT-XII-I-125]  
Octahedral complexes of the type  $[\text{M}(\text{AA})_2\text{b}_2]^{n\pm}$  and  $[\text{M}(\text{AA})_2\text{b}_2]^{n\pm}$  exhibit geometrical isomerism.  
Option (1), i.e.,  $\text{trans-}[\text{Co}(\text{en})_2\text{Cl}_2]^+$  which belongs to the 1<sup>st</sup> category is optically inactive owing to presence of an element of symmetry. However (2),  $\text{cis-}[\text{Co}(\text{en})(\text{NH}_3)_2\text{Cl}_2]^+$  exists in optically active forms.
- 
- Option (3) and (4) are optically inactive as all the ligands are same.

70. (4) [NCERT-XI-II-302]

When methane gas is treated with chlorine in the presence of sunlight, one hydrogen of methane replaced by the chlorine atom and forms methyl chloride. The mechanism involved in this reaction is free radical mechanism. So it is an example of free radical substitution reaction.

71. (4) [NCERT-XII-I-69]

72. (1) [NCERT-XII-I-96]

Sc<sup>3+</sup> does not contain d electron-Hence it is colourless.

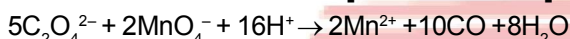
73. (3) [NCERT-XII-I-128, 129]

All d electrons of Co in [Co(C<sub>2</sub>O<sub>4</sub>)<sub>3</sub>]<sup>3-</sup> are paired. Hence it is diamagnetic in nature

74. (3) [NCERT-XII-I-132]

According to spectrochemical series the correct order of ligand field strength is  $\bar{\text{CN}} > \text{NH}_3 > \bar{\text{O}}\text{H} > \text{O}^-$

75. (3) [NCERT-XI-II-249]



76. (4) [NCERT-XII-I-111]

Approximate percentage of lanthanoids in mischmetal is 95%.

77. (2) [NCERT-XI-I-90]

Element	$\Delta_{\text{egH}}$ kJ mol <sup>-1</sup>
O	-141
S	-200
Se	-195
Te	-190

Oxygen being smaller in size experience repulsion on addition of one electron in gaseous state hence electron gain enthalpy is lowest in oxygen.

78. (4) [NCERT-XII-I-18]

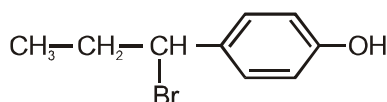
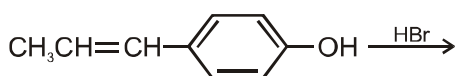
$$\Delta T_f = K_f m$$

$$= 1.86 \times \frac{18}{\frac{180}{250}}$$

$$= 1.86 \times \frac{18}{180} \times \frac{1000}{250}$$

$$\Delta T_f = 0.74$$

79. (2) [NCERT-XI-II-165]



80. (2) [NCERT-XII-I-45]

$$\Lambda_m = \frac{1000 \times k}{C}$$

$$= \frac{1000 \times 0.0015}{0.01}$$

$$= 150 \text{ S cm}^2 \text{ mol}^{-1}$$

81. (4) [NCERT-XII-I-37]

$E_{\text{Au}^{3+}/\text{Au}}^0 = +ve$  hence it will not reduce H<sup>+</sup> ion of acid to hydrogen

82. (4) [NCERT-XII-I-77]

The reaction is first order as the unit of rate constant is s<sup>-1</sup>

$$t = \frac{1}{K} \times 2.303 \log \frac{a}{a-x}$$

$$= \frac{1}{4.606 \times 10^{-3}} \times 2.303 \log \frac{100}{100-90}$$

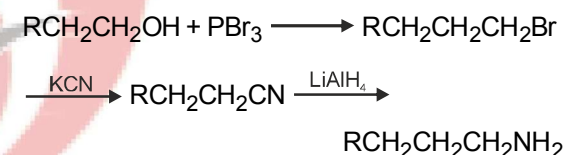
$$= 0.5 \times 10^3$$

$$= 500 \text{ s}$$

83. (2) [NCERT-XI-I-160]

A Catalyst does not alter Gibbs energy of reaction.

84. (1) [NCERT-XII-II-200]



85. (4) [NCERT-XII-II-42]

86. (2) [NCERT-XII-II-296]

87. (2) [NCERT-XI-I-89]

Enthalpy change in the addition of an electron to neutral gas atom k/a, first electron gain enthalpy or electron affinity.

88. (1) [NCERT-XI-I-115]

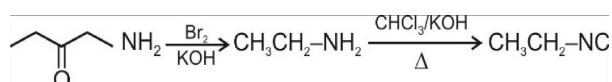
89. (2) [NCERT-XI-I-141]

$$W_{\text{rev}} = 2.303nRT \log V_f / V_i$$

$$= 2.303 \times 2 \times 8.314 \times 400 \log \frac{20}{2}$$

$$= -15.3 \text{ kJ.}$$

90. (3) [NCERT-XII-II-264, 271]



<p>91. (3) [NCERT-XI-I-115]</p> <table border="0"> <tr> <td>Molecule</td> <td>Shape</td> </tr> <tr> <td><math>\text{BCl}_3</math></td> <td>Trigonal planar</td> </tr> <tr> <td><math>\text{ClF}_3</math></td> <td>T-Shape</td> </tr> <tr> <td><math>\text{PCl}_3</math></td> <td>Pyramidal</td> </tr> <tr> <td><math>\text{SF}_4</math></td> <td>See-Saw</td> </tr> </table>	Molecule	Shape	$\text{BCl}_3$	Trigonal planar	$\text{ClF}_3$	T-Shape	$\text{PCl}_3$	Pyramidal	$\text{SF}_4$	See-Saw	<p>97. (2) [NCERT-XI-I-87, 88]</p> <p>In any period -</p> <p>Lowest <math>\Delta_i H_1</math> = IA metal (Reactive metal)</p> <p>(I) = 520 kJ = q</p> <p>Highest <math>\Delta_i H_1</math> = noble gases</p> <p>(III) = 2372 kJ = p</p> <p>so, I-q, II-s, III-p, IV-r</p>
Molecule	Shape										
$\text{BCl}_3$	Trigonal planar										
$\text{ClF}_3$	T-Shape										
$\text{PCl}_3$	Pyramidal										
$\text{SF}_4$	See-Saw										
<p>92. (2) [NCERT-XI-I-50]</p> $\lambda = \frac{h}{mV} = \frac{6.625 \times 10^{-34}}{500 \times 10^{-6} \times 100}$ $\lambda = 1.325 \times 10^{-32} \text{ m.}$	<p>98. (2) [NCERT-XII-II-170]</p> <p>The given reaction is an example of</p> $\text{C}_2\text{H}_5\text{Br} + \text{KCN}(\text{aq.}) \rightarrow \text{C}_2\text{H}_5\text{CN} + \text{KBr}$ <p>Nucleophilic substitution</p>										
<p>93. (3) [NCERT-XI-I-93]</p> <p>The pair of elements which show diagonal relationship are</p> <p>Li and Mg ; Be and Al ; B and Si</p>	<p>99. (3) [NCERT-XII-II-271]</p> <table border="0"> <tr> <td>Type of amine</td> <td>Reaction</td> </tr> <tr> <td>• 1° Amine</td> <td>– gives isocyanide test</td> </tr> <tr> <td>• 2° Amine</td> <td>– gives yellow oily liquid with <math>\text{HNO}_2</math></td> </tr> <tr> <td>• 3° Amine</td> <td>– not reacts with Hinsberg reagent</td> </tr> </table>	Type of amine	Reaction	• 1° Amine	– gives isocyanide test	• 2° Amine	– gives yellow oily liquid with $\text{HNO}_2$	• 3° Amine	– not reacts with Hinsberg reagent		
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• 2° Amine	– gives yellow oily liquid with $\text{HNO}_2$										
• 3° Amine	– not reacts with Hinsberg reagent										
<p>94. (3) [NCERT-XI-I-62]</p> <p>d subshell contains 5 orbitals.</p> <p>Maximum number of electrons = <math>2 \times 5 = 10</math>.</p>	<p>100. (3) [NCERT-XI-I-129]</p> <table border="0"> <tr> <td>(Molecule)</td> <td>(Bond order)</td> </tr> <tr> <td>• NO</td> <td>– 2.5</td> </tr> <tr> <td>• CO</td> <td>– 3.0</td> </tr> <tr> <td>• <math>\text{O}_2^-</math></td> <td>– 1.5</td> </tr> <tr> <td>• <math>\text{O}_2</math></td> <td>– 2.0</td> </tr> </table>	(Molecule)	(Bond order)	• NO	– 2.5	• CO	– 3.0	• $\text{O}_2^-$	– 1.5	• $\text{O}_2$	– 2.0
(Molecule)	(Bond order)										
• NO	– 2.5										
• CO	– 3.0										
• $\text{O}_2^-$	– 1.5										
• $\text{O}_2$	– 2.0										
<p>95. (2) [NCERT-XI-I-129, 130]</p> <p>If bond order is Zero then the species will not exist</p> <p><math>\text{Be}_2</math> (8 electrons)</p> $(s_{1s})^2 (s_{1s}^*)^2 (s_{2s})^2 (s_{2s}^*)^2$ $\text{B.O of } \text{Be}_2 = \frac{1}{2}(4 - 4)$ $= 0$											
<p>96. (3) [NCERT-XII-I-23]</p> $1\text{M } \text{H}_3\text{PO}_4 = 1/3\text{N } \text{H}_3\text{PO}_4$											

**BIOLOGY**

**SECTION-A-(PART-1)**

**101. (1) [NC-I-126]**

Chromosomes are moved to spindle equator – Metaphase  
Centromere splits – Anaphase  
Pairing between homologous chromosomes – Zygotene  
Crossing over between homologous chromosomes – Pachytene

**102. (4) [NCERT-I-185]**

**Statement I :**

In Human Breathing involves two stages : Inspiration and expiration.

**Statement II :**

External Intercostal muscles involved in Breathing.

**103. (3) [NCERT-I-197]**

**Statement I :**

The complete double circulation present in human

**Statement II :**

The incomplete double circulation present in frog.

**104. (1) [NCERT-II-80]**

- |                 |                      |
|-----------------|----------------------|
| (a) Adenine     | (i) Purine           |
| (b) Anthocyanin | (ii) Pigment         |
| (c) Chitin      | (iii) Polysaccharide |
| (d) Codeine     | (iv) Alkaloid        |

**105. (1) [NCERT-I-205]**

**Statement I :**

Ammonia is the most toxic form and requires large amount of water for its elimination.

**Statement II :**

aquatic amphibians, aquatic insects and many bony fishes are ammonotelic.

**106. (2) [NCERT-I-218]**

**Statement I :**

Movement of our limbs, Jaws Tongue etc require muscular movement.

**Statement II :**

Locomotion requires a perfect coordinated activity of muscular, skeletal and neural system.

**107. (3) [NCERT-I-303]**

**Statement I :**

Skeletal muscles are closely associated with skeletal components of the body.

**Statement II :**

Visceral muscles are located in the innerwalls of hollow visceral organs of the body.

**108. (1) [NCERT-II-225]**

- |                     |  |
|---------------------|--|
| (a) Sacred groves   | (i) Khasi Hills in Meghalaya             |
| (b) Zoological park | (ii) Ex-situ conservation                |
| (c) Nile perch      | (iii) Alien species                      |
| (d) Amazon forest   | (iv) Release of large quantity of oxygen |

**109. (2) [NCERT-I-12]**

**110. (3) [NMC, Old NCERT]**

- |                      |                |
|----------------------|----------------|
| Glandular epithelium | – Goblet cells |
| Compound epithelium  | – Skin         |
| Exocrine gland       | – With duct    |
| Endocrine gland      | – Without duct |
| Dense regular tissue | – Tendon       |

**111. (3) [NMC, Old NCERT]**

Hepatic caeca are 6-8 in number and help in digestion.

Gizzard is also called as proventriculus.

Hindgut is broader than midgut

Blood vessels are poorly developed

**112. (2) [NCERT-I-47,48]**

**113. (1) [NCERT-I-38]**

- |                                   |                 |
|-----------------------------------|-----------------|
| Digestive system with one opening | – Incomplete    |
| Digestive system with two opening | – Complete      |
| Closed vascular system            | – Blood vessels |
| Open vascular system              | – Sinuses       |

**114. (1) [NCERT-I-73, 64]**

- |               |           |
|---------------|-----------|
| Polyadelphous | – Citrus  |
| Epipetalous   | – Brinjal |
| Epiphylous    | – Lily    |
| Perigynous    | – Peach   |

**115. (3) [NMC, Old NCERT]**

- |                       |  |
|-----------------------|--|
| → Squamous epithelium | – Blood vessels and air sacs of lungs. |
| → Cuboidal epithelium | – Ducts of glands                      |

**116. (3) [NMC, Old NCERT]**

- Phloem parenchyma, companion cell seive tube elements – living
- Phloem fiber is dead due to lose their protoplasm.
- Xylem fibres, Tracheids, vessels – Non living
- Xylem parenchyma – living

117. (2) [NMC, Old NCERT]

The Hypodermis in dicot stem are made up of collenchyma.

118. (4) [NCERT-II-201]

In amensalism on the other hand one species is harmed whereas the other is unaffected. Predation, parasitism and commensalisms share a common characteristic– the interacting species live closely together.

In mutualism both species are benefitted

119. (2) [NCERT-I-26,30,32]

- |                          |                    |
|--------------------------|--------------------|
| (a) <i>Chlamydomonas</i> | (i) Alga           |
| (b) <i>Cycas</i>         | (ii) Gymnosperm    |
| (c) <i>Selaginella</i>   | (iii) Pteridophyte |
| (d) <i>Sphagnum</i>      | (iii) Moss         |

120. (1) [NCERT-II-194]

In a population, unrestricted reproductive capacity is called as biotic potential. as ecosystem services.

Statement II :

Phosphorus is a major constituent of biological membranes, nucleic acid and cellular energy transfer systems.

121. (2) [NCERT-I-64]

- |               |                        |
|---------------|------------------------|
| (a) Imbricate | (i) <i>Cassia</i>      |
| (b) Valvate   | (ii) <i>Calotropis</i> |
| (c) Vexillary | (iii) <i>Bean</i>      |
| (d) Twisted   | (iv) <i>Cotton</i>     |

122. (1) [NCERT-II-224]

Statement I:

The ethical argument for conserving biodiversity relates to what we owe to millions of plant, animal and microbe species with whom we share this planet.

Statement II :

Philosophically or spiritually, we need to realise that every species has an Intrinsic value, even if it may not be of current or any economic value to us.

123. (4) [NC-II-210]

According by Lindman only 10% energy are transferred from one trophic level to other trophic level. So this pyramid is not possible.

124. (1) [NCERT-II-193]

An individual may have births and deaths but a population has birthrates and death rates another attributes characteristics of a population is sex ratio. An individual is either a male or a female but a population has sex ratio.

125. (3) [NCERT-II-217]

The IUCN Red List (2004) documents the extinction of 784 species (including 338 vertebrates, 359 invertebrates and 87 plants) in the last 500 years.

126. (4) [NCERT-II-222]

The Evil Quartet term are related with Biodiversity loss.

Cause of Biodiversity loss – habitat loss and fragmentation, over exploitation, coextinction, alien species invasion

127. (2) [NC-I-226]

Pectoral girdle bone are two clavicle and two scapula.

128. (3) [NCERT-II-41 to 45]

- |                  |             |
|------------------|-------------|
| (1) Male human   | – Vasectomy |
| (2) Female human | – Tubectomy |
| (3) ZIFT, GIFT   | – ART       |

129. (2) [NCERT-II-44]

Non-medicated IUDs - Lippes loop

Copper releasing IUDs - CuT, Cu7, multiload 375

Hormone releasing IUDs-progestasert, LNG-20

IUDs-emergency contraceptive

130. (4) [NCERT-II-137]

The exaggerated response of the immune system to certain antigens present in the environment is called allergy.

131. (4) [NCERT-II-105]

Satellite DNA is important because it Shows high degree of polymorphism in population and also the same degree of polymorphism in an individual, which is heritable from parents to children. The bulk DNA forms a major peak and the other small peaks are referred to as satellite DNA.

132. (3) [NCERT-II-83]

For prokaryotic genetic material DNA present but no histones.

In eukaryote genetic material made by DNA and histone protein.

133. (2) [NCERT-II-96]

Some amino acids are coded by more than one codon, hence the code is degenerate

134. (2) [NCERT-II-100]

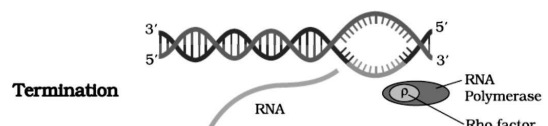
In regulation of gene by lac operon, repressor bind with operator .

135. (1) [NCERT-II-80]

Cytidylate = Nucleotides




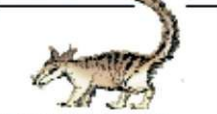





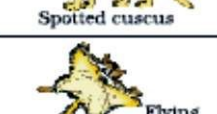




**SECTION-B-(PART-1)**

136. (2) [NCERT-II-93]



137. (3)	[NCERT-II-179]	145. (3)	[NCERT-I-126]
138. (4)	[NCERT-II-169]	DiploTene stage of meiosis can last for months or years in the oocytes of some vertebrates.	
(1) PCR	– Invitro DNA synthesis	146. (4)	[NC - I 220]
(2) Selectable marker	– Antibiotics Resistance gene	In C <sub>4</sub> plants photorespiration does not occur. This is because they have a mechanism that increases the concentration of CO <sub>2</sub> at the enzyme site.	
(3) Bacteria	– Thermus aquaticus	147. (4)	[NC-I-149,150]
139. (2)	[NCERT-II-165 to 167]	During photosynthesis several factors interact and simultaneously effect photosynthesis usually one factor is the major cause and limit the rate At any point the rate will be determined by the factor available at suboptimal levels	
(a) Molecular Glue	– DNA Ligase	148. (3)	[NC-I-145]
(c) Molecular scissors	– Restriction endonuclease	The particularly large cells around the vascular bundles of the C <sub>4</sub> pathway plants are called bundle sheath cells, and the leaves which have such anatomy are said to have 'Kranz' anatomy. 'Kranz' means 'wreath' and is a reflection of the arrangement of cells. The bundle sheath cells may form several layers around the vascular bundles; they are characterised by having a large number of chloroplasts, thick walls impervious to gaseous exchange and no intercellular spaces. You may like to cut a section of the leaves of C <sub>4</sub> plants – maize or sorghum – to observe the Kranz anatomy and the distribution of mesophyll cells.	
140. (1)	[NCERT-II-165 to 167]	149. (4)	[NCERT-II-19]
(a) Natural Genetic Engineer	– Agrobacterium	The given diagram is A typical dicot embryo	
(c) Plasmid	– Extra chromosomal DNA	150. (1)	[NCERT-II-17]
(d) Alkaline pH	– Required for activation of Bt Toxin	In unisexual flowers no need of emsculation.	
141. (4)	[NCERT-II-182]	<b>SECTION-A-(PART-2)</b>	
(a) ELi Lilly	– American company	151. (2)	[NCERT-II-102]
(b) ELi Lilly	– Formation of insulin	Some of the important goals of HGP were as follows:	
(c) Pro-Insulin	– C - Peptide	(i) Identify all the approximately 20,000-25,000 genes in human DNA	
(d) Pro-Insulin	– B - Peptide	(ii) Determine the sequences of the 3 billion chemical base pairs that make up human DNA.	
142. (4)	[NC-II-183]	(iii) Store this information in databases.	
Statement -I- Animals that have had their DNA manipulated to posses and express an extra (foreign) gene are known as transgenic animals.		(iv) Improve tools for data analysis.	
Statement-II-Presence of pathogen (bacteria, viruses etc) is normally suspected only when the pathogen has produced a disease symptom.		(v) Transfer related technologies to other sectors, such as industries.	
143. (4)	[NCERT-II-174]	(vi) Address the ethical, legal, and social issues (ELSI) that may arise from the project.	
Statement I:		152. (4)	[NCERT-II-144]
In Downstream processing strict quality control testing for each product is also required.		Smoking increases carbon monoxide in blood.	
Statement II :		Smoking causes oxygen deficiency in body.	
The downstream processing and Quality control testing vary from product to product.			
144. (4)	[NCERT-II-165]		
Statement I:			
Restriction endonucleases are used in genetic engineering to Form recombinant molecules of DNA, which are composed of DNA from different sources/genomes			
Statement II :			
When cut by the same restriction enzyme, the resultant DNA fragments have the same Kind of stick-ends and these can be joined together (end to end) using DNA ligases.			

153. (1) [NCERT-II-117,118]  
Placenta absent in marsupial mammals.

Placental mammals	Australian marsupials
 Mole	 Marsupial mole
 Anteater	 Numbat (anteater)
 Mouse	 Marsupial mouse
 Lemur	 Spotted cuscus
 Flying squirrel	 Flying phalanger
 Bobcat	 Tasmanian tiger cat
 Wolf	 Tasmanian wolf

154. (1) [NCERT-II-115]

The given diagram is examples of homologous organ

155. (4) [NCERT-I-245]

Aldosterone hormones is not involved in sugar metabolism

156. (4) [NCERT-II-63]

It is a trihybrid cross

$n = \text{Heterozygous} = 3$

Types of gametes =  $2^n = 2^3 = 8$

Type of genotypes =  $3^n = 3^3 = 27$

157. (3) [NC-II-75,76]

Turner's Syndrome : Such a disorder is caused due to the absence of one of the X chromosomes, i.e., 45 with X0, Such females are sterile as ovaries are rudimentary besides other features including lack of other secondary sexual characters.

158. (1) [NC-II-63]

Among 16 — 1 green and wrinkled

$\therefore 1 \text{ — } 1/16$

$\therefore 1600 \text{ — } = \frac{1}{16} \times 1600 = 100$

159. (3) [NC-II-59]

Dihybrid test cross ratio 1:1:1:1

160. (4) [NCERT-II-75]

The amino acid phenylalanine is converted into tyrosine with help of enzyme phenyl alanine hydroxylase.

161. (1) [NCERT-II-71]

It is also evident that in each pregnancy there is always 50 per cent probability of either a male or a female child. It is unfortunate that in our society women are blamed for producing female children and have been ostracised and ill-treated because of this false notion.

162. (4) [NCERT-I-281]

163. (1) [NCERT-I-283,284]

164. (4) [NCERT-II-35]

Lack of menstruation is indicative of pregnancy. However it may also be caused due to some other underlying causes like stress, poor health etc.

165. (3) [NCERT-II-31 to 34]

Mammary lobes - 15 - 20

Menstrual cycle - 28 - 29 days

Menstrual flow - 3 - 5 days

Ovulation - 14 - 15<sup>th</sup> day

166. (2) [NCERT-I-272]

In tissue  $P_{O_2}$  and  $P_{CO_2}$  are 40 mmHg and 45 mmHg respectively.

167. (4) [NCERT-I-290, 291]

Uricotelic = Reptiles, Birds, land snails

168. (2) [NCERT-II-37]

Follicular phase = Proliferative phase

169. (1) [NCERT-I-287]

Parasympathetic neural signal decrease the rate of heart beat speed of conduction of action potential and thereby the cardiac output.

170. (2) [NCERT-II-36]

The embryo with 8 to 16 blastomeres is called a morula

171. (1) [NCERT-II-27]

Urethra - unpaired

Vasdeferens, epididymis, ejaculatory duct - paired.

172. (3) [NC-I-168]

Recombination between homologous chromosomes is completed by the end of pachytene, leaving the chromosomes linked at the sites of crossing over.

173. (3) [NC-I-121]

S or synthesis phase marks the period during which DNA synthesis or replication takes place. During this time the amount of DNA per cell doubles. If the initial amount of DNA is denoted as 2C then it increases to 4C. However, there is no increase in the chromosome number; if the cell had diploid or 2n number of chromosomes at  $G_1$ , even after S phase the number of chromosomes remains the same, i.e., 2n.

[NC-I-126]		SECTION-B-(PART-2)		
<p>174. (1) In oocytes of some vertebrates, diplot</p> <p>Aromatic amino acid – Tryptophan Acidic amino acid – Glutamic acid</p>		<p>186. (3) Pteridophytes, Gymnosperm, angiosperm plant body is sporophytic have true root, stem but Wolffia is root less angiosperm. Salvinia - Rootless because aquatic pteridophyte.</p> <p>Pteridophytes, Gymnosperm, – Vascular tissue angiosperm</p>		
<p>175. (3) Fatty acid – Palmitic acid Phospholipid – Lecithin Aromatic amino acid – Tryptophan Acidic amino acid – Glutamic acid</p>	[NCERT-I-106]	<p>187. (2)</p>	[NMC Old NCERT]	
<p>176. (3) Golgi apparatus is the important site of formation of glycoproteins and glycolipids. Golgi apparatus principally perform the function of packaging materials</p>	[NCERT-I-95,96]	<p>188. (1)</p>	[NCERT-II-165,182]	
<p>177. (3)</p>	[NCERT-I-112]	<p>(a) Gene gun</p>	<p>(i) Used for transfer of gene</p>	
<p>178. (3) Mature erythrocytes contain no any cell organelles like mitochondria, nucleus hence DNA are not present. Seive tube cells are enucleated cell but other cell organelles are present like mitochondria, chloroplast. Mitochondria and chloroplast have it's own DNA besides nucleus.</p>	[NC-I-194]	<p>(b) Gene therapy</p>	<p>(ii) Replacement of a faulty gene by a normal healthy gene</p>	
<p>179. (3) The coconut water and the edible part of coconut are equivalent to Endosperm.</p>	[NCERT-I-76, NCERT-II-35]	<p>(c) Gene cloning</p>	<p>(iii) To obtain indentical copies of a particular DNA molecule</p>	
<p>180. (1) Generally after fertilisation the sepals, petals and stamens of the flower wither and fall off.</p>	[NCERT-II-16]	<p>(d) Genome</p>	<p>(iv) Total DNA in the cells of an organism</p>	
<p>181. (4)</p>	[NMC Old NCERT]	<p>189. (3)</p>	[NCERT-II-80]	
<p>182. (4) Seed bearing plant are called as spermatophyta eg. Gymnosperm, angiosperm.</p>	[NCERT-I- 32,33]	<p>(a) Bacteriophage <math>\phi \times 174</math></p>	<p>(i) 5386 nucleotides</p>	
<p>183. (4) Marchantia – Dioecious Pinus – Monoecious Cycas – Dioecious In cycas ovules are very large and megasporophyll are not associates to form female strobili or female cone.</p>	[NC-I-33]	<p>(b) Bacteriophage lambda</p>	<p>(ii) 48502 base pairs</p>	
<p>184. (3) Psilopsida (<i>Psilotum</i>); Lycopsida (<i>Selaginella</i>, <i>Lycopodium</i>), Sphenopsida (<i>Equisetum</i>) and Pteropsida (<i>Dryopteris</i>, <i>Pteris</i>, <i>Adiantum</i>).</p>	[NCERT-I-32]	<p>(c) Escherichia coli of DNA</p>	<p>(iii) <math>4.6 \times 10^6</math> base pairs</p>	
<p>185. (1) Dinoflagellates are mostly marine and photosynthetic. They appear yellow, green, brown, blue or red depending on the main pigments present in their cells. The cell wall has stiff cellulose plates on the outer surface. Most of them have two flagella; one lies longitudinally and the other transversely in a furrow between the wall plates.</p>	[NCERT-I-15]	<p>(d) Haploid content human</p>	<p>(iv) <math>3.3 \times 10^9</math> base pairs</p>	
		<p>190. (1)</p>	[NCERT-I-159]	
		<p>191. (2)</p>	<p>The 5-C compound formed during TCA cycle is : <math>\alpha</math> – ketoglutaric acid</p>	
		<p>192. (4)</p>	[NCERT-II-65]	
		<p>193. (4)</p>	<p>The chromosomal theory of inheritance was proposed by : Sutton and Boveri</p>	
		<p>194. (3)</p>	[NCERT-I-178]	
		<p>Secondary treatment or biological treatments : The primary effluent is passed into large aeration tanks where it is constantly agitated mechanically and air is pumped into it. This allows vigorous growth of useful aerobic microbes into flocs (masses of bacteria associated with fungal filaments to form mesh like structures).</p> <ul style="list-style-type: none"> <li>• Sewage treatment</li> <li>• Aerobic microbes</li> <li>• Masses of bacteria with fungal filaments</li> </ul>	[NCERT-II-154]	
			<p>Depending on the type of the raw material used for fermentation and the type of processing with or without distillation) different types of alcoholic drinks are obtained. Wine and beer are produced without distillation whereas whisky, brandy and rum are produced by distillation of the fermented broth.</p>	[NCERT-II-152]

195. (2) [NC-I-62]

In zygomorphic flower can be divided into two equal vertical halves only in one particular vertical plane.

196. (4) [NC-I-111]

197. (2) [NC-I-194]

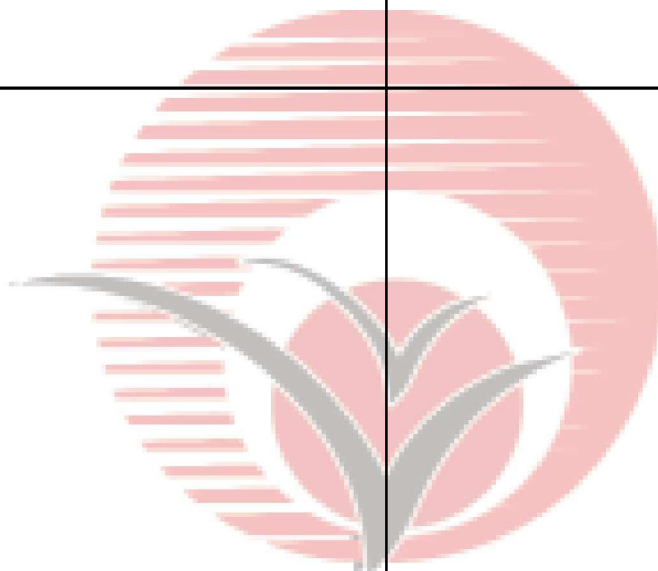
198. (4) [NC-I-194]

199. (2) [NCERT-I-209]

The descending limb of loop of Henle is permeable to water .

200. (4) [NC-I-95]

The golgi apparatus principally performs the function of packaging materials, to be delivered either to the intra-cellular targets or secreted outside the cell. Materials to be packaged in the form of vesicles from the ER fuse with the *cis* face of the golgi apparatus and move towards the maturing face.



# OUR FRANCHISES

	District	Address
1.	<b>PRAYAGRAJ</b>	9/7/40 , CHURCH LANE (OPP. HOLY TRINITY SCHOOL) PRAYAG RAJ
2.	<b>AMBEDKAR NAGAR</b>	KAUTILYA GURUKULAM Old Tehseel Aviral Complex below PNB Ambedkar Nagar, Akbarpur
3.	<b>BAREILLY</b>	A-28, RAJENDRA NAGAR, NEAR SHREE BANKEY BIHARI MANDIR, BAREILLY
4.	<b>DEORIA</b>	NEET/JEE INSTITUTE PARMARTHI POKHARA SAKET NAGAR NEW COLONY, DEORIA – 724807
5.	<b>GORAKHPUR</b>	NEW LIGHT INSTITUTE Opp. D.I.G. BANGLAW CANTT ROAD, GORAKHPUR (UP-273001)
6.	<b>JHANSI</b>	ANALYSIS ACADEMY - 2ND FLOOR ABOVE PNB BANK NEAR RTO OFFICE, KANPUR ROAD JHANSI, U.P. - 284001
7.	<b>JAUNPUR</b>	HOUSE NO. 149 INFRONT OF ROADWAYS BUS STAND, KACHEHARI ROAD, JAUNPUR-222002
8.	<b>LUCKNOW</b>	2nd FLOOR CHITRAHAR BUILDING, NAWAL KISHORE ROAD, HAZRATGANJ, LUCKNOW- 226001
9.	<b>MAU</b>	SKY LIGHT ACADEMY PAHAR PURA, KHIRI BAGH ROAD, MAU, UP-275101
10.	<b>VARANASI</b>	NEW LIGHT INSTITUTE B-26/93-A NEAR BLOCK NO. 13 KABEER NAGAR DURGAKUND VARANASI.
11.	<b>BASTI</b>	HN 621 AWAS VIKAS COLONY BASTI U.P.
12.	<b>FAIZABAD, AYODHYA</b>	SHASWAT CAREER INSTITUTE SHANKARGARH BAZAR, DEVKALI BYPASS AMBEDKAR NAGAR ROAD, FAIZABAD

	District	Address
13.	<b>SULTANPUR</b>	GENIUS INSTITUTE, RAHUL CHAURAHA, NABIPUR ROAD NEAR PETROL PUMP. SULTANPUR
14.	<b>MEERUT</b>	GAYATRI CLASSES , NEAR KACHEHRI, OPP. SAGAR COMPUTEX, PLSHARMA ROAD MEERUT - 250001
15.	<b>RAEBARELI</b>	SANSHIKSHA ACADEMY, 2ND FLOOR, ZAMEER COMPOUND ABOVE SBI CITY BRANCH FLOOR, CANAL ROAD, RAEBARELI
16.	<b>ETAWAH</b>	NEET BOOSTER CLASSES RAM NAGAR ROAD, FRIENDS COLONY ETAWAH UP 206001
17.	<b>BAHARAICH</b>	AAKASHDEEP NEET CLASSES GHASIYARIPURA GONDA ROAD INFRONT U.P. AGRO CITY KART BAHRAICH UP
18.	<b>AZAMGHARH</b>	PRATIGYA COACHING INSTITUTE NEAR LIFE LINE HOSPITAL, RAHUL NAGAR MADAYA AZAMGARH
19.	<b>KOTA (RAJSTHAN)</b>	GLOBAL INSTITUTE OF COMMERCE C-100 SUWALAL KACHORI LANE TALWANDI KOTA 324005
20.	<b>PATNA (BIHAR)</b>	VISION KOTA CLASSES BAZARSAMITI MAIN GATE, NEAR BAHADUR THANA PATNA-800006
21.	<b>DELHI (JANAKPURI)</b>	SAKET INSTITUTE PRIVATE LIMITED A1/32, 2ND FLOOR, JANAKPURI , OPPST METRO PILLAR NO.624, NEW DELHI 58
22.	<b>CHHATTISGARH BHILAI</b>	VISION CLASSES SHOP NO.164 NEW, CIVIC CENTER, BHILAI, CHHATTISGARH 490006
23.	<b>SHIVPURI (MP)</b>	AASIRBAD BHAWAN, INFRONT OF RAJESHWARI TEMPLE, SHANKAR COLONY, SHIVPURI MADHYA PRADESH MP 473551
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25 June 2024 & 02 July 2024

Class 10<sup>TH</sup>

25 June 2024 & 02 July 2024

### FOUNDATION BATCHES

Two Year Foundation (11<sup>TH</sup> & 12<sup>TH</sup>)

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