QUESTION PAPER WITH SOLUTION

17th July 2022 (Sunday)

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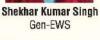
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Physics

Section - A

- **1.** A long solenoid of radius 1 mm has 100 turns per mm. If 1 A current flows in the solenoid, the magnetic field strength at the centre of the solenoid is:
 - (1) 12.56 × 10⁻² T (2) 12.56 × 10⁻⁴ T
 - (3) 6.28 × 10⁻⁴ T
 - (4) 6.28 × 10⁻² T

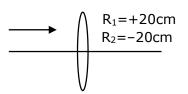
Sol. (1)

B = $\mu_0 ni$ = $\mu_0 \frac{N}{\ell}i$ ∴ B = $4\pi \times 10^{-7} \times 1 = 12.56 \times 10^{-2} T$

- **2.** A biconvex lens has radii of curvature, 20 cm each. If the refractive index of the material of the lens is 1.5, the power of the lens is:
 - (1) +20 D
 - (2) +5D
 - (3) infinity
 - (4) +2D (2)

Sol.

 $f = \frac{R}{2(\mu - 1)}$ $\frac{20}{2(1.5 - 1)} = \frac{10}{1/2}$ f = 20 cmp = 100/f= 100/20 = 5 D



- **3.** Let T_1 and T_2 be the energy of an electron in the first and second excited states of hydrogen atom, respectively. According to the Bohr's model of an atom, the ratio $T_1 : T_2$ is :
 - (1) 4 : 1
 - (2) 4 : 9
 - (3) 9 : 4
 - (4) 1 : 4

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Sol. (3)

First excited state \Rightarrow n = 2

$$T_{1} = -13.6 \frac{z^{2}}{n^{2}} = -\frac{13.6}{4} eV$$

Second excited state $\Rightarrow n = 3$
$$T_{2} = -13.6 \frac{z^{2}}{n^{2}} = -\frac{13.6}{9} eV$$

$$T_{1}: T_{2} = \frac{1}{4}: \frac{1}{9} = 9: 4$$

- **4.** The peak voltage of the ac source is equal to:
 - (1) the rms value of the ac source $\overline{}$
 - (2) $\sqrt{2}$ times the rms value of the ac source
 - (3) $1\sqrt{2}$ times the rms value of the ac source
 - (4) the value of voltage supplied to the circuit.

Sol. (2)

Sol.

Peak voltage is $\sqrt{2}$ times rms voltages in ac.

5. Match List-I with List- II :

List – I	List – II
(Electromagnetic waves)	(Wavelength)
(a) AM radio waves	(i) 10 ⁻¹⁰ m
(b) Microwaves	(ii) 10 ² m
(c) Infrared radiations	(iii) 10 ⁻² m
(d) X-rays	(iv) 10 ⁻⁴ m
Choose the correct answer from the option	ns given below:
(1) (a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)	
(2) (a)-(iii), (b)-(iv), (c)-(ii), (d)-(i)	
(3) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)	
(4) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)	
(3)	
(a) AM radio wave $\approx 10^2$ m (ii)	
(b) Microwave $\approx 10^{-2}$ n (iii)	
(c) Infrared radiations (iv) $\approx 10^{-4}$ m (iv)	
9	

- (d) X-ray $\approx \text{\AA} = 10^{-10} \text{ m}$ (i)
- (a) (ii), (b) –(iii), (c) (iv), (d) (i)

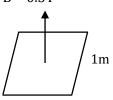
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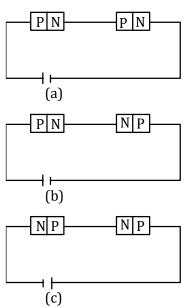
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- A square loop of side 1m and resistance 1Ω is placed in a magnetic field of 0.5T. If the plane of loop is perpendicular to the direction of magnetic field, the magnetic flux through the loop is :
 (1) 0.5 weber
 - (1) 0.3 webe (2) 1 weber
 - (3) zero weber
 - (4) 2 weber
- Sol.



Angle between $\vec{B} \& \vec{A}$ zero $\phi = B.A \cos 0$ $= 0.5 \times 1 \times 1$ = 0.5 wb

7.



In the given circuits (a), (b) and (c), the potential drop across the two p-n junctions are equal in : (1) Circuit (b) only

- (2) Circuit (c) only
- (2) Circuit (c) Oilly
- (3) Both circuits (a) and (c)
- (4) Circuit (a) only

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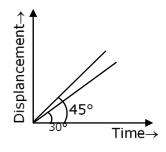
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Sol. (3)

In (a) & (c) circuits, both the junctions are in same biasing conditions so offers equal resistances. Since both are in series, therefore equal potential will drop across the junction.

8. The displacement-time graphs of two moving particles make angles of 30° and 45° with the x-axis as shown in the figure. The ratio of their respective velocity is :



(1) 1 : 1 (2) 1 : 2 (3) 1 : $\sqrt{3}$

(4)
$$\sqrt{3}$$
 :

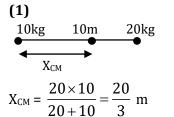
Velocity is slope of x-t graph

$$V = \frac{dx}{dt} = \tan\theta$$
$$\frac{V_1}{V_2} = \frac{\tan\theta_1}{\tan\theta_2} = \frac{\tan 30^\circ}{\tan 45^\circ} = \frac{1}{\sqrt{3}}$$

1

- **9.** Two objects of mass 10kg and 20kg respectively are connected to the two ends of a rigid rod of length 10m with negligible mass. The distance of the center of mass of the system from the 10kg mass is :
 - (1) $\frac{20}{3}$ m
 - (2) 10m
 - (3) 5m
 - (4) $\frac{10}{3}$ m

Sol.



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- 10. The angle between the electric lines of force and the equipotential surface is : $(1) 45^{\circ}$
 - $(2) 90^{\circ}$ (3) 180°

(4) 0°

- Sol. (2) Electric field is always perpendicular to EPS.
- If the initial tension on a stretched string is doubled, then the ratio of the initial and final speeds of a 11. transverse waves along the string is:

 $(1) \sqrt{2} : 1$ (2) 1 : $\sqrt{2}$ (3) 1:2 (4) 1:1(2) $V \propto \sqrt{\text{Tension}}$ $\frac{\mathbf{v}_{i}}{\mathbf{v}_{f}} = \sqrt{\frac{T_{i}}{T_{f}}}$ $\frac{v_i}{v_f} = \sqrt{\frac{T}{2T}}$ $\frac{\mathbf{v}_{i}}{\mathbf{v}_{e}} = \sqrt{\frac{1}{2}} = \frac{1}{\sqrt{2}}$

- When two monochromatic lights of frequency, v and $\frac{v}{2}$ are incident on a photoelectric metal, their 12. stopping potential becomes $\frac{V_s}{2}$ and V_s respectively. The threshold frequency for this metal is :
 - (1) 3 v (2) $\frac{2}{3}$ v

(3)

- (3) $\frac{3}{2}$ v (4) 2 v
- Sol.

Sol.

 $hv = w + \frac{ev_s}{2}$ $\frac{hv}{2} = w + ev_s$ 2hv - hv/2 = 2w - w $\frac{3hv}{2} = w$ $\frac{3kv}{2} = kv_{th}$ $v_{\text{th}} = \frac{3v}{2}$

Answer is correct but it is not practically possible.

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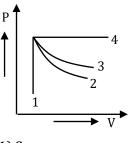
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- **13.** As the temperature increases, the electrical resistance:
 - (1) decreases for both conductors and semiconductors
 - (2) increases for conductors but decreases for semiconductors
 - (3) decreases for conductors but increases for semiconductors
 - (4) increases for both conductors and semiconductors
- Sol. (2)

For conductors α is (+) ve For semiconductors & Insulators α is (–)ve

14. An ideal gas undergoes four different processes from the same initial state as shown in the figure below. Those processes are adiabatic, isothermal, isobaric and isochoric. The curve which represents the adiabatic process among 1, 2, 3 and 4 is :



- (1) 2
- (2) 3
- (3) 4
- (4) 1
- (1)
 - 1 : Isochoric
 - 2 : Adiabatic
 - 3 : Isothermal
 - 4 : Isobaric
- **15.** The energy that will be ideally radiated by a 100 kW transmitter in 1 hour is :
 - (1) 36 × 10⁴ J
 - (2) 36 × 10⁵ J
 - (3) 1 × 10⁵ J
 - (4) 36 × 107 J

Sol. (4)

Sol.

 $E = P \times t = 100 \times 10^{3} \times 3600$ = 36 × 10⁷ J

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16.The ratio of the distances travelled by a freely falling body in the 1st, 2nd, 3rd and 4th second :
(1) 1: 4: 9: 16(2) 1: 3: 5: 7(3) 1: 1: 1: 1(4) 1: 2: 3: 4

$$S_{nth} = u + \frac{a}{2} (2n - 1)$$

$$= 0 + \frac{a}{2} (2n - 1)$$

$$S_{nth} \propto (2n - 1)$$

$$\Rightarrow S_{1st}, S_{2nd}, S_{3rd}, S_{4th}$$

$$= [2(1) - 1] : [2(2) - 1] : [2(3) - 1] : [2(4) - 1]$$

$$= 1 : 3 : 5 : 7$$

17. Given below are two statements :

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Statement I : Biot-Savart's law gives us the expression for the magnetic field strength of an infinitesimal current element (Idl) of a current carrying conductor only.

Statement II : Biot-Savart's law is analogous to Coulomb's inverse square law of charge q, with the former being related to the field produced by a scalar source, Idl while the latter being produced by a vector source, q.

In light of above statements choose the **most appropriate** answer from the options given below :

(1) Both Statement I and Statement II are incorrect

(2) Statement I is correct and Statement II is incorrect

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

Sol.

(2)

(3)

$$d\vec{B} = \frac{\mu_0 \left(ld \vec{\ell} \times \vec{r} \right)}{4\pi r^3}$$

As per Biot Savart law, the expression for magnetic field depends on current carrying element $\operatorname{Id} \ell$, which is a vector quantity, therefore, statement-I is correct and statement-II is wrong.

18. When light propagates through a material medium of relative permittivity ε_r and relative permeability μ_r , the velocity of light v is given by : (c : velocity of light in vacumm)

(1)
$$v = \sqrt{\frac{\mu_r}{\epsilon_r}}$$
 (2) $v = \sqrt{\frac{\epsilon_r}{\mu_r}}$ (3) $v = \frac{c}{\sqrt{\epsilon_r \mu_r}}$ (4) $v = c$

Sol.

$$n = \sqrt{\varepsilon_r \mu_r}$$
$$n = \frac{c}{v} \Rightarrow v = \frac{c}{n}$$
$$v = \left(\frac{c}{\sqrt{\varepsilon_r \mu_r}}\right)$$

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19. A body of mass 60g experiences a gravitational force of 3.0N, when placed at a particular point. The magnitude of the gravitational field intensity at that point is : (1) 50 N/kg (2) 20 N/kg (3) 180 N/kg (4) 0.05 N/kg Sol. (1) F

$$I_g = \frac{1}{m}$$

= $\frac{3}{60 \times 10^{-3}}$ = 50 N/kg

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20. In half wave rectification, if the input frequency is 60Hz then the output frequency would be :

(2) 60Hz (3) 120 Hz (1) 30Hz (4) zero Sol. (2) In half wave rectification $F_{in} = f_{out}$ \Rightarrow f_{out} = 60Hz

- 21. If a soap bubble expands, the pressure inside the bubble:
 - (1) increases (2) remains the same (4) decreases

(3) is equal to the atmospheric pressure

Sol. (4)

$$\Delta P = \frac{4T}{R}$$

 $P_{in} = P_{out} = \frac{4T}{R}$ If soap bubble expands

R will increase Pin will decrease.

22. The ratio of the radius of gyration of a thin uniform disc about an axis passing through its centre and normal to its plane to the radius of gyration of the disc about its diameter is :

 $(1) \sqrt{2}:1$ (2) 4 : 1 $(3) 1 : \sqrt{2}$ (4) 2:1Sol. (1) $\frac{\mathrm{MR}^2}{2} = \mathrm{MK}_1^2$ $\frac{\mathrm{MR}^2}{4} = \mathrm{MK}_2^2$ $\frac{4}{2} = \frac{K_1^2}{K_2^2}$ $\frac{\mathrm{K}_{1}}{\mathrm{K}_{2}} = \sqrt{\frac{2}{1}}$

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- **23.** Two hollow conducting spheres of radii R_1 and R_2 ($R_1 >> R_2$) have equal charges. The potential would be: (1) more on smaller sphere
 - (2) equal on both the spheres
 - (3) dependent on the material property of the sphere
 - (4) more on bigger sphere

Sol. (1)

$$V = \frac{kQ}{R}$$

$$V_1 = \frac{KQ}{R_1}; V_2 = \frac{KQ}{R_2}$$

 $R_1 >> R_2$ Then $V_1 << V_2$ Smaller sphere has more potential.

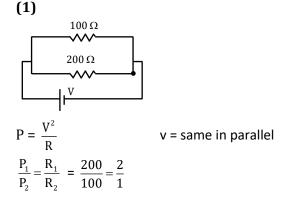
- **24.** Plane angle and solid angle have:
 - (1) Dimensions but no units
 - (2) No units and no dimensions
 - (3) Both units and dimensions
 - (4) Units but no dimensions

Sol. (4)

Unit of angle – radian Unit of solid angle – steradian But both are dimensionless

- **25.** Two resistors of resistance, 100Ω and 200Ω are connected in parallel in an electrical circuit. The ratio of the thermal energy developed in 100Ω to that in 200Ω in a given time is :
 - (1) 2 : 1
 - (2) 1 : 4
 - (3) 4 : 1
 - (4) 1 : 2

Sol.



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- 26. The angular speed of a fly wheel moving with uniform angular acceleration changes from 1200 rpm to 3120 rpm in 16 second. The angular acceleration in rad/s² is :
 - (1) 4π (2) 12π $(3) 104\pi$

(4) 2π

(1)

Motion®

- Sol.

$$f_{0} = \frac{1200}{60} = 20 \text{ Hz}$$

$$\omega_{0} = 2\pi f_{0} = 40 \pi \text{ rad}$$

$$f = \frac{3120}{60} = 50 \text{ Hz}$$

$$\omega = 2\pi f = 104 \pi \text{ rad}$$

$$t = 16 \text{ s}$$

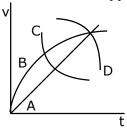
$$\omega = \omega_{0} + \alpha t$$

$$104\pi = 40\pi + \alpha(16)$$

$$\frac{64\pi}{16} = \alpha$$

$$\alpha = 4\pi$$

27. A spherical ball is dropped in a long column of a highly viscous liquid. The curve in the graph shown, which represents the speed of the ball (v) as a function of time (t) is :



(1) B

- (2) C
- (3) D
- (4) A

Sol. (1)

As ball is falling vertically downward at first velocity increases then become equal to terminal velocity (constant).

A light ray falls on a glass surface of refractive index $\sqrt{3}$, at an angle 60°. The angle between the refracted 28. and reflected rays would be : $(1) 60^{\circ}$ (4) 30°

 $(2) 90^{\circ}$ (3) 120°

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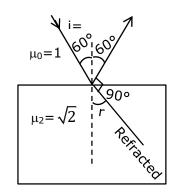
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Sol. (2)

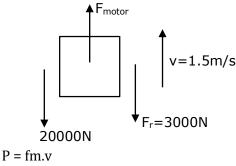


$$\mu_1 \sin I = \mu_2 \sin r$$
$$1 \times \frac{\sqrt{3}}{2} = \sqrt{3} \sin r$$
$$\sin r = \frac{1}{2}$$
$$r = 30^\circ$$

- **29.** An electric lift with a maximum load of 2000 kg (lift + passengers) is moving up with a constant speed of 1.5 ms^{-1} . The frictional force opposing the motion is 3000N. The minimum power delivered by the motor to the lift in watts is : (g = 10 ms^{-2})
 - (1) 20000
 - (2) 34500
 - (3) 23500
 - (4) 23000

(2)

```
Sol.
```



- = (20000 + 3000) = 1.5
- = 23000 × 1.5
- = 34500 watt

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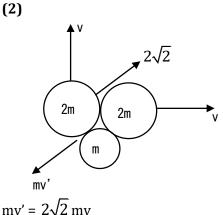
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- **30.** A shell of mass m is at rest initially. It explodes into three fragments having equal mass in the ratio 2:2:1. If the fragments having equal mass fly off along mutually perpendicular directions with speed v, the speed of the third (lighter) fragment is:
 - (1) $\sqrt{2}v$
 - (2) $2\sqrt{2}v$
 - (3) $3\sqrt{2}v$
 - (4) v

Sol.



$$\mathbf{v}' = 2\sqrt{2}\mathbf{v}$$

- 31. The dimensions [MLT⁻²A⁻²] belong to the :
 (1) self inductance
 (2) according to according to the second seco
 - (2) magnetic permeability
 - (3) electric permittivity
 - (4) magnetic flux

Sol. (2)

As we know

$$\frac{\mathrm{dF}}{\mathrm{d}\,\ell} = \frac{\mu_0 \mathbf{i}_1 \mathbf{i}_2}{2\,\pi\mathrm{d}}$$
$$\therefore \ \mu_0 = \left(\frac{\mathrm{dF}}{\mathrm{d}\,\ell}\right) \left(\frac{2\,\pi\mathrm{d}}{\mathbf{i}_1 \mathbf{i}_2}\right)$$
$$= \frac{\left[\mathrm{MLT}^{-2}\right] \left[\mathrm{L}\right]}{\left[\mathrm{L}\right] \left[\mathrm{A}^2\right]}$$

$$= [MLT^{-2}A^{-2}]$$

32. A copper wire of length 10 m and radius $\left(\frac{10^{-2}}{\sqrt{\pi}}\right)^m$ has electrical resistance of 10 Ω . The current density in the wire for an electric field strength of 10(V/m) is: (1) 10⁶ A/m² (2) 10⁻⁵ A/m² (3) 10⁵ A/m² (4) 10⁴ A/m²

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Sol. (3)

 $\ell = 10m$ $R = \frac{10^{-2}}{\sqrt{\pi}}m$ $R = 10\Omega$ $E = 10\frac{V}{m}$ As we know $J = \sigma E = \frac{E}{\rho}$ Now, $R = \frac{\rho \ell}{A}$ $\therefore \rho = \frac{RA}{\ell}$ Hence, $J = \frac{E \ell}{RA}$ Now, $A = \pi r^2 = \pi \frac{(10^{-2})^2}{\pi} = 10^{-4} m^2$ $\therefore J = \frac{10 \times 10}{10 \times 10^{-4}} = 10^5 \frac{A}{m^2}$

- **33.** In a Young's double slit experiment, a student observes 8 fringes in a certain segment of screen when a monochromatic light of 600 nm wavelength is used. If the wavelength of light is changed to 400 nm, then number of fringes he would observe in the same region of the screen is:
 - (1) 8
 - (2) 9
 - (3) 12
 - (4) 6 **(3)**
- Sol.

N₁B₁ = n₂B₂
n₁
$$\frac{\lambda_1 D}{d} = n_2 \frac{\lambda_2 D}{d}$$

∴ n₁L₁ = n₂L₂
8 × 600 = n₂ × 400
n₂ = $\frac{4800}{400} = 12$

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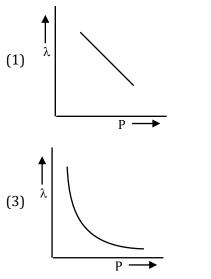
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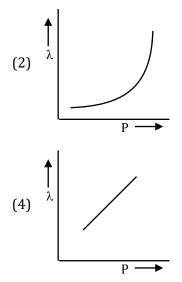
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34. The graph which shows the variation of the de Broglie wavelength $^{(\lambda)}$ of a particle and its associated momentum (p) is:



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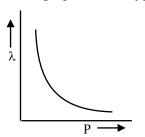


Sol. (3)

According to de Broglic

$$\lambda = \frac{h}{h}$$

 $\lambda p = constant$ Hence, graph will be hyperbola



- **35.** In the given nuclear reaction, the element X is : ${}^{22}_{11}Na \rightarrow X + e^+ + v$
 - (1) $^{^{23}}_{10}$ Ne
 - (2) $^{^{22}}_{^{10}}Ne$
 - (3) $^{^{22}}_{^{12}}Mg$
 - (4) ²³₁₁Na

Sol. (2)

On balance the equation we find that \times is $^{22}_{10}$ Ne

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SECTION - B

36. A series LCR circuit with inductance 10H, capacitance 10 μ F, resistance 50 Ω is connected to an ac source of voltage V = 200 sin (100 t) volt. If the resonant frequency of the LCR circuit is v₀ and the frequency of the ac source is v then :

(1)
$$v_0 = v = \frac{50}{\pi} \text{ Hz}$$

(2) $v_0 = \frac{50}{\pi} \text{ Hz}, v = 50 \text{ Hz}$
(3) $v = 100 \text{ Hz}, v_0 = \frac{100}{\pi} \text{ Hz}$
(4) $v_0 = v = 5 \text{ Hz}$
(1)
Resonant frequency $(v_0) = \frac{1}{2\pi\sqrt{LC}}$
Since, L = 10H
C = 10µF = 10⁻⁵f
 $v_0 = \frac{1}{2\pi\sqrt{10 \times 10^{-5}}} = \frac{1}{2\pi \times 10^{-2}}$
 $\frac{100}{2\pi} = \frac{50}{\pi} \text{ Hz}$
On comparing with
 $v = v_0 \sin \omega t$
 $w = 100$
 $2\pi v = 100$

 $\upsilon = \frac{100}{2\pi} = \frac{50}{\pi} \text{Hz}$

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Hence, option (1) correct.

37. Match **List-I** with **List-II**.

Sol.

List-I	List-II
(a) Gravitational constant (G)	(i) [L ² T ⁻²]
(b) Gravitaional potential energy	(ii) [M ⁻¹ L ³ T ⁻²]
(c) Gravitational potential	(iii) [LT ⁻²]
(d) Gravitational intensity	(iv) [ML ² T ⁻²]
(1) (a) – (ii), (b) – (iv), (c) – (i), (d) – (iii)	
(2) (a) - (ii), (b) - (iv), (c) - (iii), (d) - (i)	
(3) (a) – (iv), (b) – (ii), (c) – (i), (d) – (iii)	
(4) (a) – (ii), (b) – (i), (c) – (iv), (d) – (iii)	

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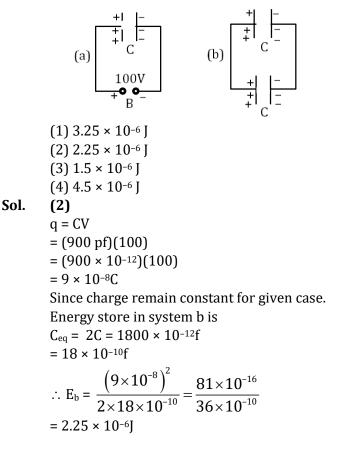
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Sol. (1)

(a)
$$G \rightarrow \frac{Fr^2}{m^2} = \frac{\left[MLT^{-2}\right]\left[L^2\right]}{\left[M^2\right]} = [M^{-1}L^3T^{-2}]$$

(b) Gravitational potential energy \Rightarrow Dimension of energy ML²T⁻²
(c) Gravitational potential $= \frac{w}{m} = \frac{ML^2T^{-2}}{M} = [L^2T^{-2}]$
(d) Gravitational intensity $= \frac{f}{m} = \frac{MLT^{-2}}{M} = [LT^{-2}]$

38. A capacitor of capacitance C = 900pF is charged fully by 100V battery B as shown in figure (a). Then it is disconnected from the battery and connected to another uncharged capacitor of capacitance C = 900pF as shown in figure (b). The electrostatic energy stored by the system (b) is :



39.Two transparent media A and B are separated by a plane boundary. The speed of light in those media are
 1.5×10^8 m/s and 2.0×10^8 m/s, respectively. The critical angle for a ray of light for these two media is :
(1) $\sin^{-1}(0.750)$ (2) $\tan^{-1}(0.500)$ (3) $\tan^{-1}(0.750)$ (4) $\sin^{-1}(0.500)$

Sol. (1)

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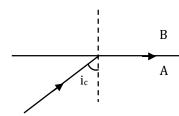
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Since,
$$\mu = \frac{C}{V}$$

 $\therefore \mu_A = \frac{C}{V_A}$
and $\mu_B = \frac{C}{V_B}$

on observing the speed we can say media A is denser.



$$\therefore \mu_{A} \sin i_{c} = \mu_{B} \sin 90^{\circ} = \mu_{B}$$

$$\sin i_{c} = \frac{\mu_{B}}{\mu_{A}} = \frac{C / V_{B}}{C / V_{A}} = \frac{V_{A}}{V_{B}}$$

$$= \frac{1.5 \times 10^{8}}{2 \times 10^{8}} = 0.750$$

$$\therefore i_{c} = \sin^{-1}(0.750)$$

Sol.

40. The volume occupied by the molecules contained in 4.5 kg water at STP if the intermolecular forces vanish away is :

(1) $5.6 \times 10^{3} \text{ m}^{3}$ (2) $5.6 \times 10^{-3} \text{ m}^{3}$ (3) $5.6 \times 10^{6} \text{ m}^{3}$ (4) $5.6 \times 10^{6} \text{ m}^{3}$ (3) $\mu = \frac{\text{mass of water}}{\text{molecular weight}} = \frac{4.5}{18 \times 10^{-3}} = 250$ $T = 273, P = 10^{5} \text{ N/m}^{2}$ $PV = \mu RT$ $V = \frac{\mu RT}{\rho}$ $= \frac{250 \times 8.3 \times 273}{10^{5}}$ $= 5.6 \text{ m}^{3}$

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(3) 10 ms⁻¹

QUESTION PAPER WITH SOLUTION

(4) Zero

41. A ball is projected with a velocity, 10 ms⁻¹, at an angle of 60° with the vertical direction. Its speed at the highest point of its trajectory will be:

Sol. (1) At maxm height

Motion®

(2) 5 ms⁻¹

$$4x = 4 \cos\theta$$

= 10 cos 30°

$$= 10 \cos 50^{\circ}$$

= $10 \times \frac{\sqrt{3}}{2} = 5\sqrt{3} \text{ m/s}$

The stretching of a spring is determined by the shear modulus of the material of the spring. Reason (R):

A coil spring of copper has more tensile strength than a steel spring of same dimensions.

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

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

Sol. (2)

Sol.

Because the stretching of coil simply change it's shape without any change in length of the wire used in coil. Due to which shean modulus of elasticity is involved.

 $Y_{stell} > Y_{copper}$

- Two pendulums of length 121 cm and 100 cm start vibrating in phase. At some instant, the two are at their 43. mean position in the same phase. The minimum number of vibrations of the shorter pendulum after which the two are again in phase at the mean position is: (4) 11
 - (1)9(2) 10(3)8 (4) $T = 2\pi \sqrt{\frac{\ell}{g}}$ $\frac{T_1}{T_2} = \sqrt{\frac{121}{100}}$
 - $\frac{T_1}{T_2} = \frac{11}{10}$

 - $11 T_2 = 10T_2$
 - 11 oscn of smaller is equal to 10 oscn of T_1

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44. A big circular coil of 1000 turns and average radius 10 m is rotating about its horizontal diameter at 2 rad s⁻¹. If the vertical component of earth's magnetic field at that place is 2×10^{-5} T and electrical resistance of the coil is 12.56^[2], then the maximum induced current in the coil will be: (1) 1.5 A (2) 1 A (3) 2 A (4) 0.25 A

(2)

$$i = \frac{e_{max}}{R} = \frac{NBAW}{R}$$
$$= \frac{1000 \times 2 \times 10^{-5} \times \pi \times 10^{2} \times 2}{12.56}$$
$$= \frac{12.56}{12.56} = 1 \text{ A}$$

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45. Two point charges –q and +q are placed at a distance of L, as shown in the figure.

$$-q$$
 $+q$

The magnitude of electric field intensity at a distance R (R>>L) varies as:

(1) $\frac{1}{R^3}$ (2) $\frac{1}{R^4}$ (3) $\frac{1}{R^6}$ (4) $\frac{1}{R^2}$ Sol. (1) $E = \frac{2kP}{R^3} = E \propto \frac{1}{R^3}$

- **46.** A nucleus of mass number 189 splits into two nuclei having mass number 125 and 64. The ratio of radius of two daughter nuclei respectively is :
 - (1) 4 : 5
 - (2) 5 : 4
 - (3) 25 : 16
 - (4) 1 : 1

Sol. (2)

 $\begin{array}{l} {\sf R} = {\sf R}_0 \; ({\sf A})^{1/3} \\ {\sf R} \propto {\sf A}^{1/3} \end{array}$

$$\frac{R_1}{R_2} = \left[\frac{A_1}{A_2}\right]^{1/3}$$
$$\frac{R_1}{R_2} = \left[\frac{125}{64}\right]^{1/3}$$
$$\frac{R_1}{R_2} = \frac{5}{4}$$

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47. From Ampere's circutal law for a long straight wire of circular cross-section carrying a steady current, the variation of magnetic field in the inside and outside region of the wire is :

(1) a linearly increasing function of distance upto the boundary of the wire and then linearly decreasing for the outside region.

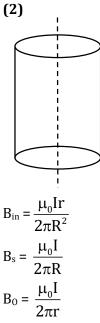
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(2) a linearly increasing function of distance r upto the boundary of the wire and then decreasing one with 1/r dependence for the outside region.

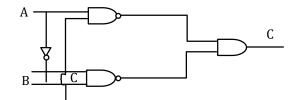
(3) a linearly decreasing function of distance upto the boundary of the wire and then a linearly increasing one for the outside region.

(4) uniform and remains constant for both the regions.

Sol.



48.



The truth table for the given logic circuit is :

	А	В	
	0	0	1
(1)	0	1	0
	1	0	0
	1	0 1 0 1	1

	А	В	C		А	В	C
	0	0 1 0 1	0		0	0 1 0 1	0
(3)	0	1	1	(4)	0	1	1
	1	0	0		1	0	1
	1	1	1		1	1	0

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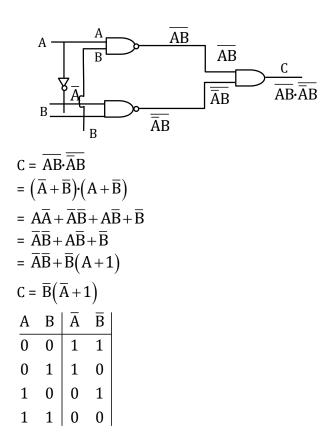
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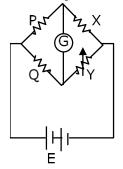
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Sol. (2)



49. A wheatstone bridge is used to determine the value of unknown resistance X by adjusting the variable resistance Y as shown in the figure. For the most precise measurement of X, the resistance P and Q :



- (1) should be approximately equal and are small
- (2) should be very large and unequal
- (3) do not play any significant role
- (4) should be approximately equal to 2x

Sol. (1)

Resistance of P & Q should be approx.. equal as it decreases error in experiment.

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QUESTION PAPER WITH SOLUTION

50. The area of a rectangular field (in m²) of length 55.3m and breadth 25m after rounding off the value for correct significant digits is :

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- (1) 1382 (2) 1382.5
- (3) 14×10^2
- (4) 138 × 10¹

Sol.

 $A = l \times B$

(3)

- = 55.3 × 25
- $= 1382.5 \approx 14 \text{ x } 10^2$

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CHEMISTRY SECTION - A

- **51.** Identify the incorrect statement from the following.
 - (1) All the five 4d orbitals have shapes similar to the respective 3d orbitals
 - (2) In an atom, all the five 3d orbitals are equal in energy free state.
 - (3) The shapes fo d_{xy} , d_{yz} , and d_{zx} , orbitals are similar to each other; and $d_{x^2-y^2}$ and d_{z^2} are similar to each

other.

- (4) All the fie 5d orbitals are different in size when compared to the respective 4d orbitals
- Sol. (3)

 $d_{x^2-v^2}$ is double dumbled while dz^2 has baby soother shape.

52. Given below are two statements :

Statement I :

The acidic strength of monosubstituted nitrophenol is higher than phenol because than phenol because of electron withdrawing nitro group.

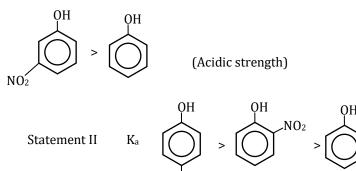
Statement II ;

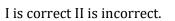
o-nitrophenol, m-nitrophenol and p-nitrophenol will have same acidic strength as they have one nitro group attached to the phenolic ring.

In the of the above statement, choose the most appropriate answer from the options given below :

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

Sol. (2)





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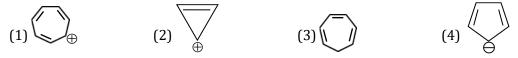
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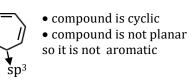
- 53. The incorrect statement regarding chirality is :
 - (1) The product obtained by S_{M^2} reaction of haloalkane having chirality at the reactive site shows inversion of configuration.
 - (2) Enantiomers are superimposable mirror images on each other.
 - (3) A racemic mixture shows zero optical rotation.
 - (4) S_{N^1} reaction yiled 1 : 1 mixture of both enantiomers.
- Sol. (2)

Enantiomers are non-superimposable mirror images on each other.

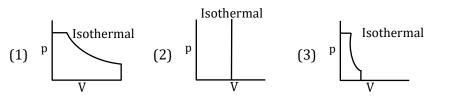
54. Which compound amongst the following is not an aromatic compound ?s

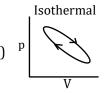


Sol. (3)



- 55. Amongst the following which one will have maximum 'lone pair-lone pair' electron repulsions.
- (1) IF_5 (2) SF₄ $(3) XeF_2$ (4) ClF₃ (3) Sol.
- Which of the following p–V curve represents maximum work done? 56.





Sol. (1)

Max area under the curve max. work done

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57. The IUPAC name of the complex $[Ag(H_2O)_2] [Ag(CN)_2]$ is : (1) diaquasilver (II) dicyanidoargentate (II) (2) dicyanidosilver (I) and diaquaargentate (I) (3) diaquasilver (I) dicyanidoargentate(I) (4) dicyanidosilver(II) diaquaargentate(II) Sol. (3) diaquasilver (I) dicyanidoargentate(I) **58**. What mass of 95% pure CaCO₃ will be required neutralize 50mL of 0.5 M HCl solution according the following reaction? $CaCO_{3(s)} + 2HCl(aq) \rightarrow CaCl_2(aq) + CO_2(g) + 2H_2C$ [Calculate upto second place of decimal point] (1) 1.32 g (2) 3.65 g (3) 9.50 g (4) 1.25 g Sol. (1) $CaCO_{3(s)} + 2HCl(aq) \rightarrow CaCl_2(aq) + CO_2(g) + 2H_2O$ $50 \times \frac{1}{2}$ = 25 m mol Moles of $CaCO_3 = 12.5 \text{ m mol}$ Mass of CaCO₃ = $\frac{12.5 \times 100}{1000} \times \frac{100}{95}$ = 1.32 g

59. Match List-I with List-II.

Sol.

List-I	List-II
(Drug class)	(Drug molecule)
(a) Antacids	(i) Salvarsan
(b) Antihistamines	(ii) Morphine
(c) Analgesics	(iii) Cimetidine
(d) Antimicrobials	(iv) Seldane
Choose the correct answer	from the options give below :
(1) (a)-(iii), (b)-(iv), (c)-(ii), d-(i)
(2) (a)-(i), (b)-(iv), (c)-(ii),	d-(iii)
(3) (a)-(iv), (b)-(iii), (c)-(i)	, d-(ii)
(4) (a)-(iii), (b)-(ii), (c)-(iv), d-(i)
(1)	
(a) Antacids \rightarrow (iii) cemati	idine
(b) Antihistamine \rightarrow (iv) S	eldane
(a) Analgasiaa (ii) Marri	hina

(c) Analgesics \rightarrow (ii) Morphine

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⁽d) Antimicrobials \rightarrow (i) Salvarsan

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QUESTION PAPER WITH SOLUTION

60. Match List-I with List-II.

	List-I	List-II	
	(Products formed)	(Reaction of carbonyl	
		Compound with)	
(a)	Cynohydrin	(i) NH ₂ OH	
(b)	Acetal	(ii) RNH ₂	
(c)	Schiff's base	(iii) alcohol	
(d)	Oxime	(iv) HCN	
Choose the correct answer from the options give below :			
(1) (a)-(ii), (b)-(iii), (c)-(iv), d-(i)			
(2) (a)-(i), (b)-(iii), (c)-(ii), d-(iv)			
(3) (a)-(iv), (b)-(iii), (c)-(ii), d-(i)			

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

Sol. (3)

	List-I	List-II
(a)	Cynohydrin	(iv) HCN
(b)	Acetal	(iii) alcohol
(c)	Schiff's base	(ii) RNH ₂
(d)	Oxime	(i) NH ₂ OH
>	$ \delta + \bigcap_{\substack{0 \\ c \neq 0 + : \\ c \neq 0 \\ $	$\begin{bmatrix} 0^{-} \\ CN \end{bmatrix} \xleftarrow{H^{+}} \\ c \swarrow \\ cyanohydrin \end{bmatrix} C$
R–	$-C - H \xrightarrow{R'OH} \begin{bmatrix} R - CH < 0 \\ 0 \\ Hemiacet \end{bmatrix}$	$\begin{bmatrix} R' \\ H \end{bmatrix} \xrightarrow{R'OH} R-CH \xrightarrow{OR'} OR'$ $al Acetal$
>	$C = 0 + H_2 N - 0H \rightarrow C = N$	N—OH me
) C =	$= 0 + H_2 N - R \xrightarrow{H^{\bigoplus}}$	C=N-R (Schiff's base)

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QUESTION PAPER WITH SOLUTION

61. Given below are two statements : one is labelled as Assertions (A) and the other is labelled as Reason(R). **Assertion (A) :** ICl is more reactive than I₂.

Reason (R) : I-Cl bond is weaker than I-I bond.

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

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

Sol. (4)

[NCERT (XII) Page No. 207 Vol.-I]

ICl is more reactive than I_2 due to its polar bond character.

62. Which one is not correct mathematical equation for Dalton's Law of partial pressure ? Here p=total pressure of gaseous mixture.

(1)
$$p = n_1 \frac{RT}{V} + n_2 \frac{RT}{V} + n_3 \frac{RT}{V}$$

(2) $p_i = x_i p$, where p_i = partial pressure of ith gas x_i = mole fraction of ith gas in gaseous mixutre
(3) $p_i = x_i p_1^\circ$, where x_i = mole fraction of ith gas in gaseous mixture p_1° = mole fraction of ith gas in gaseous mixture

(4) $p = p_1 + p_2 + p_3$ Sol. (3)

 $p_i = x_i p_i^{\circ}$, this is not dalton's law

- **63.** Which amongst the following is incorrect statement ?
 - (1) C₂ molecule has four electron in its two degenerate π moleculer orbitals.
 - (2) H_2^+ ion has one electron.
 - (3) O_2^+ ion is diamagnetic.

(4) The bond orders of O_2^+ , O_2^- , O_2^- and O_2^{2-} are 2.5, 2, 1.5 and 1, respectively.

 $\left|\right\rangle$

 V_{F} F T Max lp at 120° in xeF₂ (1) 0₂+ 1s e- add e- = para (2) 0₂+ 0₂ 0₂- 0₂²⁻ 30 2.5 1.5 1 (3) C₂ σ 1s² σ *1s² σ 2s² σ *2s² π 2px² = π 2py² Total = 12 (4) H₂+ 1e-

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64. In one molal solution that contains 0.5 mole of a solute, there is :

(1) 500 g of solvent(3) 1000 g of solvent

(2) 100 mL of solvent (4) 500 mL of solvent

Sol. (1)

$$1 = \frac{0.5}{W}$$
$$W = 0.5 \, \text{kg}$$

W = 500 gm

65. Given below are two statement :

Statement I :

Primary aliphatic amines react with HNO₂ to give unstable diazonium salts.

Statement II : Primary aromatic amines react with HNO_2 to form diazonium salts which are stable even above 300 K. In the light of the above statement, choose the most appropriate answer from the options given below :

(1) Both Statement I and Statement II are incorrect.

(2) Statement I is correct but Statement II is incorrect.

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

Sol. (2)

Statement (I) $R-NH_2 \xrightarrow{(NaNO_2 + HCl)} R-N_2_{(unstable)} R-N_2$

Statement (II)
$$NH_2 \xrightarrow{(NaNO_2 + HCl)} O NH_2$$

(stable) but only at low

Temperature i.e. 0–5°C (273K – 276 K) so at above 300K it will be unstable. Statement I is correct but II incorrect.

66. Given below are two statements :

Statement I :

The boiling points of the following hydrides of group 16 elements increases in the order -

 $H_2O < H_2S < H_2Se < H_2Te$

Statement II :

The boiling points of these hydrides increase with increase in molar mass.

In the light of the above statements, choose the most appropriate answer from the options given below : (1) Both Statement I and Statement II are incorrect.

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

Sol. (1)

Order of BP for VIA $H_2S < H_2Se < H_2Te < H_2$

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67. Which of the following statement is not correct about diborane?

- (1) The four terminal B-H bonds are two centre two electron bonds.
- (2) The four terminal Hydrogen atoms and the two Boron atoms lie in one plane.
- (3) Both the Boron atoms are sp² hybridised.
- (4) There are two 3-centre-2-electron bonds.

Sol.

(3)

Both Boron atoms are sp³ hybrid.

68. Which of the following is suitable to synthesize chlorobenzene ?

, HCl Heating

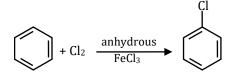
(1) Phenol, NaNO₂, HCl, Cucl

NH₂



(4) Benzene, Cl₂, anhydrous FeCl₃

Sol. (4)



69. Given below are stamens :

Statements I:

In the congulation of negative sol, the flocculating power of the there given ions is in the order : $Al^{3+} > Ba^{2+} > Na^+$

Statements II :

In the congulations of a positive sol, the flocculating power of the three given salts is in the order-NaCl > Na_2SO_4 > Na_3PO_4

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

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

Sol. (2)

Order of coagulation power

 $Al^{+3} > Ba^{+2} > Na^{+}$

Order of coagulation power

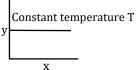
For +ve sol $PO_{4^{-3}} > SO_{4^{-2}} > Cl^{-1}$

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70. The given graph is a representation of kinetics of a reaction.



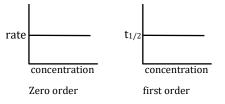
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The y and x axes for zero and first order reactions, respectively are :

- (1) zero order (y = concentration and x = time), first order (y = rate constant and x = concentration)
- (2) zero order (y = rate and x = concentration), first order (y = $t_{1/2}$ and x = concentration)
- (3) zero order (y = rate and x = concentration), first order (y = rate and x = $t_{1/2}$)
- (4) zero order (y = concentration and x = time), first order (y = $t_{1/2}$ and x = concentration)

Sol. (2)

zero order (y = rate and x = concentration) first order (y = $t_{1/2}$ and x = concentration)



- **71.** Gadolinium has a low value of third ionization enthalpy because of :
 - (1) high exchange enthalpy

(3) high basic character

(2) high electronegativity(4) small size

Sol. (1)

Gd₆₄ 4f⁷ 5d¹ 6s² high exchange enthalpy

72. Given below are two statements :

Statements I:

The boiling points of aldehydes and ketones are higher than hydrocarbons of comparable molecular. Masses because of weak molecular association in aldehydes and ketones due to dipole-dipole interactions.

Statements II :

The boiling points of aldehydes and ketones are lower than the alcohols of similar molecular masses due to the absence of H-bonding.

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

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

Sol. (4)

[NCERT (XII) Page No. 365 Vol-II]

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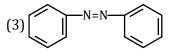
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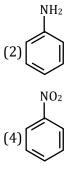
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ľ	Μοτ	ON [®]	NEET 2022	2	QUESTION PAPER With solution
73.	The IUPAC name	e of an element with at	omic number 119 is :		
	(1) unnilennium	L	(2) unununnium		
	(3) ununoctium		(4) ununennium		
Sol.	(4)				
	119 Ununenniu	im			
74.	The pH of the so	lution containing 50 m	L each of 0.10 M sodium	acetate 0.01 M	A acetic acid is :
	[Given : pK _a of C	H ₃ COOH = 4.57]			
	(1) 3.57	(2) 4.57	(3) 2.57	(4) 5.57	
Sol.	(4)				
	pH = 4.57+log $\frac{5}{5}$	$\frac{50\times0.1}{0\times0.01}$			
	pH = 4.57+log 10)			
	pH = 4.57+1				
	pH= 5.57				

75. The Kjeldahl's method for the estimation of nitrogen can be used to estimate the amount of nitrogen in which one of the following compounds ?







Sol.

[NCERT (XII) Page No. 366 Vol.-I]



(2)

In Kjeldahl's method is not applicable to N present in Nitro and Azo group and N present in the ring like pyridine.

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76. Given below are two statements : one is labelled as :

Assertion (A) and the other is labelled as Reason (R).

Assertion (A) :

In a particular point defect, an ionic solid is electrically neutral, even if few of its cations are missing from its unit cells.

Reason (R) :

In an ionic solid, Frenkel defect arises due to dislocation of cation from its lattice site to interstitial site, maintaining overall electrical neutrality.

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

(1) Both (A) and (R) are correct but (R) is not the correct explanation of (A).

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

Sol. (1)

Both (A) and (R) are correct but (R) is not the correct explanation of (A)

77. Match List-I with List-II.

List-I	List-II
(Hydrides)	(Nature)
(a) MgH ₂	(i) Electron precise
(b) GeH ₄	(ii) Electron deficient
(c) B ₂ H ₆	(iii) Electron rich
(d) HF	(iv) Ionic
(1) (a)-(iii), (b)-(i), (c)-(ii), d-(iv)
(2) (a)-(i), (b)-(ii), (c)	-(iv), d-(iii)
(3) (a)-(ii), (b)-(iii), (c)-(iv), d-(i)
(4) (a)-(iv), (b)-(i), (c)-(ii), d-(iii)

Sol. (4)

\rightarrow	(iv) Ionic
\rightarrow	(i) Electron precise
\rightarrow	(ii) Electron deficient
\rightarrow	(iii) Electron rich
	\rightarrow \rightarrow

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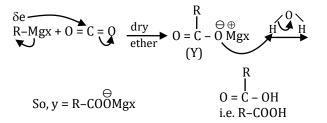
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QUESTION PAPER WITH SOLUTION

78. $\operatorname{RMgX} + \operatorname{CO}_2 \xrightarrow{\operatorname{dry}} \operatorname{Y} \xrightarrow{\operatorname{H}_3O^+} \operatorname{RCOOH}$ What is Y in the above reaction : (1) $\operatorname{R}_3\operatorname{CO}^-\operatorname{Mg}^+X$ (3) (RCOO)₂Mg

(2) RCOO-X+ (4) RCOO-Mg+X

Sol. (4)



79. Given below are half cell reaction: $MNO_{4}^{-} + 8H^{+} + 5e^{-} \rightarrow Mn^{2+} + 4H_{2}O$

$$E^{\circ}_{Mn^{2+}/MnO_{4}^{-}} = -1.510V$$

$$\frac{1}{2}O_{2} + 2H^{+} + 2e^{-} \rightarrow H_{2}O,$$

$$E^{\circ}_{O_{2}/H_{2}O} = +1.223V$$

Will the permanganate ion, MnO_4^- liberate O_2 from water in the presence of an acid?

- (1) No, because $E_{cell}^{\circ} = -0.287 V$
- (2) Yes, because E_{cell}° = +2.733 V
- (3) No, because $E_{cell}^{\circ} = -2.733 \text{ V}$
- (4) Yes, because E_{cell}° = +0.287 V

Sol. (4)

 $MnO_4^- + H_2O \rightarrow Mn^{+2} + O_2$ $E^{\circ}_{cell} = 1.51 - 1.223$ $E^{\circ}_{cell} = + 0.287$ Yes MnO_4^- liberate O_2 from water in the presence of an acid

- **80.** Which statement regarding polymers is not correct?
 - (1) Fibers possess high tensile strength.

(2) Thermoplastic polymers are capable of repeatedly softening and hardening on heating and cooling respectively.

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- (3) Thermosetting polymers are reusable.
- (4) Elestomers have polymer chains held together by weak intermolecular forces.
- Sol. (3)

Thermosetting polymers are not reusable.

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81. At 298 K, the standard electrode potential of Cu²⁺/Cu, Zn²⁺/Zn, Fe²⁺/Fe and Ag⁺/Ag are 0.34 V, -0.76 V, -0.44 V and 0.80 V, respectively.

On the basis of standard electrode potential, predict which of the following reaction can not occur?

(1) $CuSO_4(aq) + Fe(s) \rightarrow FeSO_4(aq) + Cu(s)$

(2) $FeSO_4(aq) + Zn(s) \rightarrow ZnSO_4(aq) + Fe(s)$

(3) $2CuSO_4(aq) + 2Ag(s) \rightarrow 2Cu(s) + Ag_2SO_4(aq)$

(4) $CuSO4(aq) + Zn(s) \rightarrow ZnSO_4(aq) + Cu(s)$

Sol. (3)

Order of reactivity

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Zn> Fe> Cu>Ag (Reactivity)

- **82.** The incorrect statement from the following :
 - (1) Like chemical catalysis enzymes reduce the activation energy of bio processes.
 - (2) Enzymes are polysaccharides.
 - (3) Enzymes are very specific for a particular reaction and substrate.
 - (4) Enzymes are biocatalysts.
- Sol. (2)
 - All Enzymes are protein.
- **83.** Identify the incorrect statement from the following :
 - (1) The oxidation number of in KO_2 is +4.
 - (2) Ionisation enthalpy of alkali metals decreases from top to bottom in the group.
 - (3) Lithium is the strongest reducing agent among the alkali metals.
 - (4) Alkali metals react with water to form their hydroxides. s

Sol. (1)

Sol.

Oxidation states of K in KO₂ is +1 as it is a superoxide.

84. Match List-I with List-II.

List-I	List-II
(a) Li	(i) absorbent for carbon dioxide
(b) Na	(ii) electrochemical cells
(c) KOH	(iii) coolant in fast breeder reactors
(d) Cs	(iv) photoelectric cell
(1) (a)-(iii), (b)-(i	v), (c)-(ii), d-(i)
(2) (a)-(i), (b)-(iii)), (c)-(iv), d-(ii)
(3) (a)-(ii), (b)-(iii	i), (c)-(i), d-(iv)
(4) (a)-(iv), (b)-(i)), (c)-(iii), d-(ii)
(3)	

(a) Li (ii) electrochemical cells

- (b) Na (iii) coolant in fast breeder reactors
- (c) KOH (i) absorbent for carbon dioxide
- (d) Cs (iv) photoelectric cell

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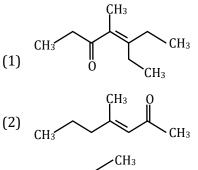
- **85.** Choose the correct statement :
 - (1) Diamond is covalent and graphite is ionic.
 - (2) Diamond is sp³ hybridised and graphite is sp² hybridized.
 - (3) Both diamond and graphite are used as dry lubricants.
 - (4) Diamond and graphite have two dimensional network.
- Sol.

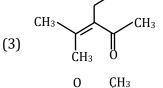
(2)

Diamond–sp³ Graphite–sp²

Section-B

86. Which one of the following is not formed when acetone reacts with 2-pentanone in the presence of dilute NaOH followed by heating ?

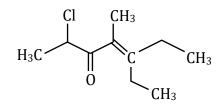




Sol.

Its aldol condensation reaction. So products not possible is

$$H_3C - CH_2 - CH_2 - C - CH_3 \xrightarrow{NaOH(dil)} \Delta$$



This compound will be formed if pentan-3-one is involved in this reaction so, it will not be formed as product since in the reaction organic substrate is not pentan-3-one, here organic substrate are pentan-2-one and acetone.

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87. The order of energy absorbed which is responsible for the color of complexes. (A) $[Ni(H_2O)_2(en)_2]^{2+}$ (B) $[Ni(H_2O)_4(en)]^{2+}$ and (C) $[Ni(en)_3]^{2+}$ is : (1) (C) > (B) > (A)(2)(C) > (A) > (B)(4)(A) > (B) > (C)(3)(B) > (A) > (C)Sol. (2) v abs ∞ strength of ligands. 88. Find the emf of the cell in which the following reaction takes place at 298 K $Ni(s) + 2 Ag^{+} (0.001 M) \rightarrow Ni^{2+} (0.001 M) + 2Ag(s)$ (Given that $E_{cell}^{\circ} = 10.5V$, $\frac{2.303RT}{F} = 0.059$ at 298 K) (1) 1.385 V (3) 1.05 V (4) 1.385 V (2) 0.9615 V Sol. (Bonus) $E_{cell} = 10.5 - \frac{0.059}{2} log \frac{10^{-3}}{10^{-6}}$ = 10.5-0.0295×3 = 10.5 - 0.088= 10.41 V 89. Match List-I with List-II. List-I List-II (Ores) (Composiiton) (a) Haematite (i) Fe_3O_4 (b) Magnetite (ii) ZnCO₃ (c) Calamine (iii) Fe_2O_3 (d) Kaolinite (iv) $[Al_2(OH)_4Si_2O_5]$ (1) (a)-(iii), (b)-(i), (c)-(ii), d-(iv) (2) (a)-(iii), (b)-(i), (c)-(iv), d-(ii) (3) (a)-(i), (b)-(iii), (c)-(ii), d-(iv) (4) (a)-(i), (b)-(ii), (c)-(iii), d-(iv) Sol. (1) (a) Haematite (iii) Fe_2O_3 (b) Magnetite (i) Fe_3O_4 (ii) ZnCO₃ (c) Calamine (d) Kaolinite (iv) $[Al_2(OH)_4Si_2O_5]$ 90. In the neutral or faintly alkaline medium, KMnO₄ oxidises iodide into iodate. The change in oxidation state of manganese in this reaction is form : (3) +6 to +5 (4) +7 to +4 (1) + 6 to + 4(2) +7 to +3 Sol. (4) Weak alkaline medium $MnO_4^{+7} \longrightarrow MnO_2^{+4}$

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91. Given below are two statements :

Statements I:

In Lucas test, primary, secondary and tertiary alcohols distinguished on the basis of their reactivity with conc. HCl + ZnCl₂, known as Lucas Reagent.

Statements II :

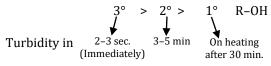
Primary alcohols are most reactive and immediately produce turbidity at room temperature on reaction with Lucas Reagent.

In the light of the above statements, choose the most appropriate answer from the options given below. (1) Both Statement I and Statement II are incorrect.

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

Sol. (2)

Statement I : is correct Lucas reagent is used to differentiate primary, secondary & Tertiary alcohol. Statement II : is incorrect since reactivity order of alcohol towards Lucas reagent (HCl + ZnCl₂) is :



92. Compound X on reaction with O_3 followed by Zn/H_2O gives formaldehyde and 2-methyl propanal as products. The compound X is :

 CH_2

lethylbut-2-ene
lethylbut-1-ene

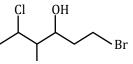
Sol. (4)

$$C = C \qquad \stackrel{i) 0_3}{\underset{(X)}{\overset{X$$

So X is
$$H \xrightarrow{CH_3} H \xrightarrow{CH_2} C = CH - CH - CH_3$$

3-methyl but-1-ene

93. The correct IUPAC name of the following compound is :



- (1) 6-bromo-2-chloro-4-methylhexan-4-ol
- (2) 1-bromo-4-methyl-5-chlorohexan-3-ol
- (3) 6-bromo-4-methyl-2- chlorohexan-4-ol
- (4) 1-bromo-5-chloro-4-methylhexan-3-ol

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Sol. (4)

- A 10.0 L flask contains 64 g of oxygen at 27°C. (Assume O₂ gas is behaving ideally). The pressure inside the 94. flask in bar is : (Given : R = 0.0831 L bar K⁻¹ mol⁻¹) (4) 2.5(1) 498.6 (2) 49.8(3) 4.9Sol. (3) PV=nRT $P \times 10 = \frac{64}{32} \times 0.083 \times 300$ P = 4.9895. The pollution due to oxides of Sulphur gets enhanced due to the presence of : (a) particulate matter (b) ozone (c) hydrocarbons (d) hydrogen peroxide Choose the most appropriate answer from the options given below : (1) (a), (b), (d) only (2) (b), (c), (d) only (3) (a), (c), (d) only (4) (a), (d) only Sol. (1) [NCERT (XI) Page No. 407] Environmental Chemistry 96. For a first order reaction A \rightarrow Product, initial concentration of A is 0.1 M, which becomes 0.001 M after 5 minutes. Rate constant for the reaction in min⁻¹ is : (1) 0.9212(2) 0.4606 (3) 0.2303 (4) 1.3818(1) Sol. $K = \frac{2.303}{5} \log \frac{0.1}{0.001}$ $=\frac{2.303}{5}\times 2$ $=\frac{4.606}{5}$
 - = 0.9212

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(4) 63.1 u

97. Copper crystallises in fcc unit cell with cell edge length of 3.608 × 10^{8–} cm. The density of copper is 8.92 g cm⁻³. Calculate the atomic mass of copper.

(1) 31.55 u (2) 60 u (3) 65u
Sol. (4)

$$8.92 = \frac{4 \times M}{6 \times 10^{23} \times (3.608 \times 10^{-8})^3}$$

 $M = \frac{8.92 \times 6 \times 10^{23} \times (3.608)^3 \times 10^{-24}}{4}$
= 62.84
 ≈ 63 u

98. $3O_2(g) \rightleftharpoons 2O_3(g)$

For the above reaction at 298 K, K_c is found to be 3.0 × 10⁻⁵⁹. If the concentration of O_2 at equilibrium is 0.040 M then concentration of O_3 in M is :

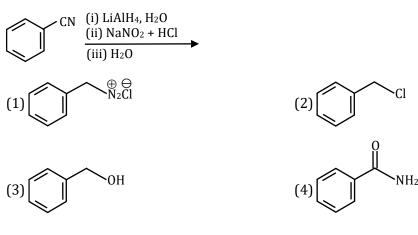
(1) 1.9 × 10 ⁻⁶³	(2) 2.4 × 10 ³¹
(3) 1.2×10^{21}	(4) 4.38 × 10 ⁻³²

Sol. (4)

$$3 \times 10^{-59} = \frac{\left[O_3\right]^2}{\left[0.04\right]^3}$$
$$3 \times 10^{-59} \times (0.04)^3 = \left[O_3\right]^2$$
$$\left[O_3\right]^2 = 1920 \times 10^{-66}$$
$$\left[O_3\right] = 4.38 \times 10^{-32}$$

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99. The produce formed from the following reaction sequence is :



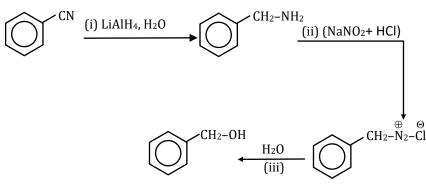
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Sol. (3)



- **100.** If radius of second Bohr orbit of the He+ion is 105.8 pm, what is the radius of third Bohr orbit of Li+2 ion ?(1) 15.87 pm(2) 1.587 pm(3) 158.7 Å(4) 158.7 pm
- Sol. (4)

 $\frac{r_2}{r_3} = \frac{n_2^2}{n_3^2} \times \frac{Z_{LI^{+2}}}{Z_{He^+}}$ $\frac{105.8}{r_3} = \frac{4}{9} \times \frac{3}{2}$ $r_3 = 105.8 \times 1.5$ $r_3 = 158.7 \text{ pm}$

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BOTANY

Section – A

- **101.** Which of the following is not a method of ex situ conservation ?
 - (1) National parks (2) Micropropagation
 - (3) Cryopreservation (4) In vitro fertilization
- Sol. (1)

NCERT 12th Page No. 267

102. Given below are two statements :

Statement I :

The primary CO₂ acceptor in C₄ plants is phoshoenolpyruvate and is found in the mesophyll cells.

Statement II :

Mesophyll cells of C₄ plants lack RuBisCo enzyme. In the light of the above statements, chose the correct answer from the options given below :

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

Sol. (4)

NCERT 11th Page No. 219

- **103.** Read the following statements about vascular bundles :
 - (a) In roots, xylem and phloem in a vascular bundle are arranged in an alternate manner along the different radii
 - (b) Conjoint closed vascular bundles do not possess cambium
 - (c) In open vascular bundles, cambium is present in between xylem and phloem
 - (d) The vascular bundles of dicotyledonous stem possess endarch protoxylem
 - (e) In monocotyledonous root, usually there are more than six xylem bundles present

Choose the correct answer from the options given below :

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

(4) (a), (b) and (d) only

Sol. (Bonus)

NCERT 11th Page No. 90, 91 93

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104. Given below are two statements :

Statement I :

Mendel studied seven pairs of contrasting traits in pea plants and proposed the Laws of Inheritance

Statement II :

Seven characters examined by Mendel in his experiment on pea plants were seed shape and colour, flower colour, pod shape and colour, flower position and stem height

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

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

Sol. (4)

NCERT 12th Page No. 70, 71

- 105. Which one of following statements cannot be connected to Predation ?
 - (1) It might lead to extinction of a species
 - (2) Both the interacting species are negatively impacted
 - (3) It is necessitated by nature to maintain the ecological balance
 - (4) It helps in maintaining species diversity in a community

Sol. (2)

NCERT 12th Page No. 233

- **106.** DNA polymorphism forms the basis of :
 - (1) DNA finger printing
 - (2) Both genetic mapping and DNA finger printing
 - (3) Translation
 - (4) Genetic mapping

Sol. (2)

NCERT 12th Page No. 221

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107. Given below are two statements :

Statement I :

Cleistogamous flowers are invariably autogamous

Statement II:

Cleistogamy is disadvantageous as there is no chance for cross pollination

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

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

Sol. (4)

NCERT 12th Page No. 28

108. In old trees the greater part of secondary xylem is dark brown and resistant to insect attack due to :

(a) Secretion of secondary metabolities and their deposition in then lumen of vessels.

- (b) Deposition of organic compounds like tannins and resins in the central layers of stem.
- (c) Deposition of suberin and aromatic substances in the outer layer of stem.
- (d) Deposition of tannins, gum, resin and aromatic substances in the peripheral layers of stem.
- (e) Presence of parenchyma cells, functionally active xylem elements and essential oils.

Choose the correct answer from the options given below :

(2) Two

- (1) (c) and (d) Only (2) (d) and (e) Only
- (3) (b) and (d) Only (4) (a) and (b) Only
- Sol. (4)

NCERT 11th Page No. 96

109. What is the net gain of ATP when each molecule of glucose is converted to two molecules of pyruvic acid ?

(1) Six

(3) Eight

(4) Four

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Sol. (3)

NCERT 11th Page No. 229

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- **110.** Which one of the following never occurs during mitotic cell division ?
 - (1) Movement of centrioles towards opposite poles
 - (2) Pairing of homologous chromosomes
 - (3) Coiling and condensation of the chromatids
 - (4) Spindle fibres attach to kinetochores of chromosomes
- Sol. (2)

NCERT 11th Page No. 164

- **111.** Production of Cucumber has increased manifold in recent years. Application of which of the following phytohormones has resulted in this increased yield as the hormone is known to produce female flowers in the plants :
 - (1) Gibberellin
 - (2) Ethylene
 - (3) Cytokinin
 - (4) ABA

Sol. (2)

NCERT 11th Page No. 250

112. Math List-I with List-II.

List –I	List – II
(a) Manganese	(i) Activates the enzyme catalase
(b) Magnesium	(ii) Required for pollen germination
(c) Boron	(iii) Activates enzymes of respiration
(d) Iron	(iv) Functions in splitting of water during photosynthesis
Choose the correct answer from the	options given below :

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

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

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

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

Sol. (1)

NCERT 11th Page No. 197, 198,

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113. The flowers are Zygomorphic in :

(a) Mustard	
(b) Gulmohar	
(c) Cassia	
(d) Datura	
(e) Chilly	
Choose the correct answer from the op	tions given below :
(1) (b),(c) only	(2) (d),(e) only
(3) (c),(d),(e) only	(4) (a),(b),(c) only
(1)	

Sol. (1)

NCERT 11th Page No. 72

114. Which of the following is incorrectly matched ?

(1) Ulothrix – Mannitol	(2) Porphyra – Floridian Starch
(3) Volvox – Starch	(4) Ectocarpus - Fucoxanthin

Sol. (1)

NCERT 11th Page No. 32, 33

115. Given below are two statements :

Statements I :

Decomposition is a process in which the detritus is degraded into simpler substances by microbes.

Statement II :

Decomposition is faster if the detritus is rich in lignin and chitin

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

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

Sol. (2)

NCERT 11th Page No. 243, 244

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116. The appearnace of recombination nodules on homologous chromosomes during meiosis characterizes : (1) Bivalent (2) Sites at which crossing over occurs (3) Terminalization (4) Synaptonemal complex Sol. (2) NCERT 11th Page No. 168 117. Which one of the following plants does not show plasticity? (1) Coriander (2) Buttercup (3) Maize (4) Cotton Sol. (3) NCERT 11th Page No. 246 118. Read the following statements and choose the set of correct statements : (a) Euchromatin is loosely packed chromatin (b) Heterochromatin is transcriptionally active (c) Histone octomer is wrapped by negatively charged DNA in nucleosome (d) Histones are rich in lysine and arginine (e) A typical nucleosome contains 400 bp of DNA helix Choose the correct answer from the options given below : (1) (a), (c), (d) Only (2) (b), (e) Only (4) (b), (d), (e) Only (3) (a), (c), (e) Only Sol. (1) NCERT 12th Page No. 99, 100 119. The device which can remove particulate matter present in the exhaust from a thermal power plant is : (1) Incinerator (2) Electrostatic precipitator (3) Catalytic Convertor (4) STP Sol. (2) NCERT 12th Page No. 271 Get upto 100% SCHOLARSHIP on the basis of NEET 2022

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QUESTION PAPER WITH SOLUTION

- **120.** The process of translation of mRNA to proteins begins as soon as :
 - (1) The larger subunit of ribosome encounters mRNA
 - (2) Both the subunits join together to bind with mRNA
 - (3) The tRNA is activated and the larger subunit or ribosome encounters mRNA
 - (4) The small subinit of ribosome encounters mRNA
- Sol. (4)

NCERT 12th Page No. 115

- **121.** Indentify the incorrect statement related to pollination
 - (1) Pollination by wind is more common amongs abiotic pollination
 - (2) Flowers produce foul odours to attract flies and beetles to get pollinated
 - (3) Moths and butterflies are the most dominant pollinating agents among insects
 - (4) Pollination by water is quite rare in flowering plants

Sol. (3)

NCERT 12th Page No. 29, 30

- **122.** The gaseous plant growth regulator is used in plants to :
 - (1) Promote root growth and roothair formation to increase the absorption surface
 - (2) Help overcome apical dominance
 - (3) Kill dicoty ledonous weeds in the fields
 - (4) Speed up the malting process

Sol. (1)

NCERT 11th Page No. 250

- **123.** Which one of the following produces nitrogen fixing nodules on the roots of Alnus ?
 - (1) Frankia

(3) Beijernickia

Sol. (1)

NCERT 11th Page No. 102

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(2) Rhodospirillum

(4) Rhizobium

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What amount of energy is released from glucose during lactic acid fermentation? 124. (1) More than 18% (2) About 10 % (3) Less than 7 % (4) Approximately 15% Sol. (3) NCERT 11th Page No. 230 125. Habitat loss and fragmentation, over exploitation, alien species invasion and co-extinction are cause for : (1) Competition (2) Biodiversity loss (3) Natality (4) Population explosion Sol. (2) NCERT 12th Page No. 264, 265 126. Given below are two statements : one is labelled as Assertion (A) and the other is labelled as Reason (R). Assertion (A) : Polymerase chain reaction is used in DNA amplification Reason (R) : The ampicillin resistant gene is used as a selectable marker to check transformation In the light of the above statements, choose the correct answer from the options given below : (1) Both (A) and (R) are correct but (R) is not the correct explanation (A) (2) (A) is correct but (R) is not correct (3) (A) is not correct but (R) is correct (4) Both (A) and (R) are correct and (R) is the correct explanation of (A) Sol. (1) NCERT 12th Page No. 199, 200, 202 Get upto 100% SCHOLARSHIP on the basis of NEET 2022 **FEE After Scholarship** NEET Score 600+ 10,000 (Kit Cost) EET ACHIEVER BAT New Batch Starting from :

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- 127. Indentify the correct set of statements :
 - (a) The leaflets are modified into pointed hard thorns in Citrus and Bougainvillea
 - (b) Axillary buds form slender and spirally coiled tendrils in cucumber and pumking
 - (c) Stem is flattened and fleshy in Opuntia and modified to perform the function of leaves

(d) Rhizophora shows vertically upward growing roots that help to get oxygen for respiration

(e) Subaerially growing stems in grasses and strawberry help in vegetative propgation Choose the correct answer from the options given below :

- (1) (a) and (d) Only
- (3) (a), (b), (d) and (e) Only

(2) (b), (c) (d) and (e) Only (4) (b) and (c) Only

Sol. (2)

NCERT 11th Page No. 67, 68, 69, 71

- 128. "Girdling Experiment" was performed by plant physiologists to identify the plant tissue through which :
 - (1) Food is transported
 - (2) For both water and food transportation
 - (3) Osmosis is observed
 - (4) Water is transported
- Sol. (1)

NCERT 11th Page No. 192

- 129. Which one of the following statement is not true regarding gel electrophoresis technique?
 - (1) The separated DNA fragments are stained by using ethidium bromide.
 - (2) The presence of chromogenic substrate gives blue coloured DNA bands one the gel.
 - (3) Bright organge coloured bands of DNA can be observed in the gel when exposed to UV light.
 - (4) The process of extraction of separated DNA strands from gel is called elution.
- Sol. (2)

NCERT 12th Page No. 198

130. XO type of sex determination can be found in :

(1) Birds	(2) Grasshoppers
(3) Monkeys	(4) Drosophila

Sol. (2)

NCERT 12th Page No. 86

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(2) Chitin

(4) Cutin

QUESTION PAPER WITH SOLUTION

- **131.** Exoskeleton of arthropods is composed of :
 - (1) Cellulose
 - (3) Glucosamine
- Sol. (2)

NCERT 11th Page No. 149

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- **132.** Hydrocolloid carrageen is obtained from :
 - (1) Phaeophyceae and Rhodophyceae
 - (3) Phaeophyceae only
- Sol. (2)

NCERT 11th Page No. 33

- (2) Rhodophyceae only
- (4) Chlorophyceae and Phaeophyceae
- **133.** Which one of the following is not true regarding the release of energy during ATP synthesis through chemiosmosis? It involves :
 - (1) Breakdown of electron gradient
 - (2) Movement of protons across the membrane to the stroma
 - (3) Reduction of NADP to $NADPH_2$ on the stroma side of the membrane
 - (4) Breakdown of proton gradient
- Sol. (1)

NCERT 11th Page No. 213, 214, 215

- **134.** Which of the following is not observed during apoplastic pathway?
 - (1) The movement does not involve crossing of cell membrane
 - (2) The movement is aided by cytoplasmic streaming
 - (3) Apoplast is continuous and does not provide any barrier to water movement
 - (4) Movement of water occurs through intercellular spaces and wall of the cells.
- Sol. (2)

NCERT 11th Page No. 184, 185

- 135. Which one of the following plants shows vexillary aestivation and diadelphous stamens?
 - (1) Pisum sativum
 - (3) Solanum nigrum

- (2) Allium cepa(4) Colchicum autumnale
- m nigrum (
- Sol. (1)

NCERT 11th Page No. 74, 75

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Section – B

136.	Transposons can be used during which one of the following ?			
	(1) Gene silencing	(2) Autoradiography		
	(3) Gene sequencing	(4) Polymerase Chain Reaction		
Sol.	(1)			
137.	Which of the following occurs due to the p	resence of autosome linked dominant trait?		
-	(1) Myotonic dystrophy	(2) Haemophilia		
	(3) Thalessemia	(4) Sickle cell anaemia		
Sol.	(1)			
	NCERT 12 th Page No. 89, 90, 91			
138.	While evaluining interspecific interation of	f nonulation (+) sing is assigned for beneficial interaction (-) sign		
150.	While explaining interspecific interation of population (+) sing is assigned for beneficial interaction, (–) sign is assigned for detrimental interaction and (0) for neutral interaction. Which of the following interactions			
	_	for another species involved in the interaction?		
	(1) Amensalism	(2) Commensalism		
	(3) Competition	(4) Predation		
Sol.	(4)			
501.	NCERT 12 th Page No. 232			
	NOLKI 12 Tage No. 252			
139.		ces of DNA, which one can be cut easily by particular restriction		
	enzyme?			
	(1) 5' G A A T T C 3' ; 3' C T T A A G 5'			
	(3) 5' G T A T T C 3' ; 3' C A T A A G 5'	(4) 5' G A T A C T 3' ; 3' C T A T G A 5'		
Sol.	(1)			
	NCERT 12 th Page No. 196, 197			
140.	The entire fleet of buses in Delhi were cor	overted to CNG form diesel. In reference to this, which one of the		
	following statements is false?			
	(1) The same diesel engine is used in CNG	buses making the cost of conversion low		
	(2) It is cheaper than diesel			
	(3) It can not be adulterated like diesel (4) CNG burns more efficiently than diesel			

Sol. (1)

NCERT 12th Page No. 272, 273

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- 141. If a geneticist uses the blind approach for sequencing the whole genome of an organism, followed by assignment of function to different segments, the methodology adopted by him is called as :
 - (1) Gene mapping
 - (3) Bioinformatics

(2) Expressed sequence tags

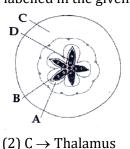
(4) Sequence annotation

- Sol. (4) NCERT 12th Page No. 119
- 142. Addition of more solutes in a given solution will : (1) lower its water potential (3) not affect the water potential all
 - (2) make its water potential zero
 - (4) raise its water potential

Sol. (1)

NCERT 11th Page No. 179, 180

143. Which part of the fruit, labelled in the given figure makes it a false fruit?



(3) D \rightarrow Seed

(4) $A \rightarrow Mesocarp$

Sol. (2)

NCERT 12th Page No. 37

144. Given below are two statements : one is labelled as

Assertion (A) and the other is labelled as Reason (R).

Assertion (A) :

(1) $B \rightarrow Endocarp$

Mendel's law of Independent assortment does not hold good for the genes that are located closely on the same chromosome.

Reason (R) :

Closely located genes assort independently.

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

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

Sol. (2)

NCERT 12th Page No. 80

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QUESTION PAPER WITH SOLUTION

145. Read the following statements on lipids and find out correct set of statements :

(a) Lecithin found in the plasma membrane is a glycolipid

- (b) Saturated fatty acids possess one or more c = c bonds
- (c) Gingely oil has lower melting point, hence remains as oil in winter
- (d) Lipids are generally insoluble in water but soluble in some organic solvents
- (e) When fattly acid is esterified with glycerol, monoglycerides are formed

Choose the correct answer form the options given below :

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

Sol. (2)

NCERT 11th Page No. 144

146. What is the role of large bundle shealth cells found around the vascular bundles in C_4 plants ?

- (1) To increase the number of chloroplast for the operation of Calvin cycle
- (2) To enable the plant to tolerate high temperature
- (3) To protect the vascular tissue form high light intensity
- (4) To provide the site for photorespiratory pathway

Sol. (1)

NCERT 11th Page No. 218

147. Match the plant with the kind of life cycle it exhibits :

	List-I		List-II
(2)	Cnirogura	(1)	dominant diploid sporophyte vascular plant, with highly
(a)	Spirogyra	U	reduced male or female gametophyte
(b)	Fern	(ii)	Dominant haploid free-living gametophyte
(0)	Funaria	(iii)	Dominant diploid sporophyte alternating with reduced
(c)	rullalla	(III)	gametophte called prothallus
പ	Cycas (iv)		Dominant haploid leafy gametophyte alternating with partially dependent multicellular sporophte
(u)			partially dependent multicellular sporophte

Choose the correct answer from the options given below :

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

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

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

Sol.

NCERT 11th Page No. 34 - 39

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- (1) Volcanic activity
- (3) Rain fall and storms

(2) Weathering of rocks

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(4) Burning of fossil fuels

Sol. (2)

NCERT 12th Page No. 254

- The anatomy of springwood shows some peculiar features. Identify the correct set of statements about 149. springwood.
 - (a) It is also called as the earlywood
 - (b) In spring season cambium produces xylem elements with narrow vessels
 - (c) It is lighter in colour
 - (d) The springwood along with autumnwood shows alternate concentric rings forming annual rings
 - (e) It has lower density

Choose the correct answer from the options given below :

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

Sol. (1)

NCERT 11th Page No. 96

150. Match List-I with List-II.

(a)	Metacentric chromosome	(i)	Centromere situated close to the end forming one extremely short and one very long arms
(b)	Acrocentric chromosome	(ii)	Centromere at the terminal end
(c)	Sub-metacent	(iii)	Centromere in the middle forming two equal arms of chromosomes
(d)	Telocentric Chromosome	(iv)	Centromere slightly away from the middle forming one shorter arm and one longer arm

Choose the correct answer from the options given below :

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

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

Sol.

(4)

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ZOOLOGY

Section – A

- **151.** In gene therapy of Adenosine Deaminase (ADA) deficiency, the patient requires periodic infusion of genetically engineered lymphocytes because :
 - (1) Gene isolated from marrow cells producing ADA is introduced into at embryonic stages
 - (2) Lymphocytes from patient's blood are grown in culture, outside the body.
 - (3) Genetically engineered lymphocytes are not immortal cells.
 - (4) Retroviral vector is introduced into these lymphocytes.
- Sol. (3)

NCERT 12th Page No. 211

- 152. In-situ conservation refers to :(1) Conserve only high risk species
 - (3) Conserve only extinct species
- (2) Conserve only endangered species
- (4) Protect and conserve the whole ecosystem

Sol. (4) NCERT 12th Page No. 266

153. Given below are two statements : one is labelled as **Assertion** (A) and the other is labelled as **Reason (R)**. **Assertion (A)** :

Osteoporosis is characterised by decreased bone mass and increased chances of fractures.

Reason (R) :

Common cause of osteoporosis is increased levels of estrogen.

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

- (1) Both (A) and (R) are correct but (R) is not the correct explanation of (A)
- (2) (A) is correct but (R) is not correct
- (3) (A) is not correct but (R) is correct
- (4) Both (A) and (R) are correct and (R) is the correct explanation of (A)
- Sol. (2)
- **154.** Which of the following is a **correct** match for disease and its symptoms?
 - (1) Tetany high Ca²⁺ level causing rapid spasms.
 - (2) Myasthenia gravis Genetic disorder resulting in weakening and paralysis of skeletal muscle
 - (3) Muscular dystrophy An auto immune disorder causing progressive degeneration of skeletal muscle

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- (4) Arthritis Inflammed joints
- Sol. (4)

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In the taxonomic categories which hierarchial arrangement in ascending order is **correct** in case of animals?

QUESTION PAPER WITH SOLUTION

(1) Kingdom, Class, Phylum, Family, Order, Genus, Species (2) Kingdom, Order, Class, Phylum, Family, Genus, Species (3) Kingdom, Order, Phylum, Class, Family, Genus, Species (4) Kingdom, Phylum, Class, Order, Family, Genus, Species Sol. (4) NCERT 11th Page No. 10 156. Regarding Meiosis, which of the statements is incorrect? (1) DNA replication occurs in S phase of Meiosis-II (2) Pairing of homologous chromosomes and recombination occurs in Meiosis-I (3) Four haploid cells are formed at the end of Meiosis-II (4) There are two stages in Meiosis, Meiosis-I and II Sol. (1) NCERT 11th Page No. 167 157. If the length of a DNA molecule is 1.1 metres, what will be the approximate number of base pairs? (2) 3.3×10⁶ bp (1) 6.6×10^9 bp (3) 6.6×10⁶ bp (4) 3.3×10⁹ bp Sol. (4) NCERT 12th Page No. 99 158. Given below are two statements : **Statement I :**

The coagulum is formed of network of threads called thrombins.

Statements II :

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155.

Spleen is the graveyard of erythrocytes.

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

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

Sol. (3)

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159.	Given below are two	o statements :				
	Statement I :					
	Mycoplasma can pass through less than 1 micron filter size. Statement II :					
	Mycoplasma are bad					
	In the light of the ab	ove statements, choos	se the most appropriate a	answer from the options given below:		
	(1) Both Statement	I and Statement II and	re incorrect			
	(2) Statement I is c	orrect but Statement	II is incorrect			
	(3) Statement I is in	ncorrect but Stateme	nt II is correct			
	(4) both Statement	I and Statement II and	re correct			
Sol.	(2)					
	NCERT 11 th Page N	o. 20				
4.60						
160.	-		-	week, the death rate in the population		
		viduals per Drosophil	•	(4) 0 1		
Sol.	(1) 10 (4)	(2) 1.0	(3) zero	(4) 0.1		
501.	(4) NCERT 12 th Page N	0.83				
	NCENT 12- Tage N	0.05				
161.	A dehydration react	ion links two glucose	molecules to produce malt	ose. If the formula for glucose is $C_6 H_{12}O_6$		
	then what is the form	-	-	2		
	(1) C ₁₂ H ₂₄ O ₁₂	(2) C ₁₂ H ₂₂ O ₁₁	(3) C ₁₂ H ₂₄ O ₁₁	(4) $C_{12}H_{20}O_{10}$		
Sol.	(2)					
162.	-	gmina in cockroach, arises from :				
	(1) Mesothorax					
	(2) Metathorax					
	(3) Prothorax and M	lesothorax				
	(4) Prothorax					
Sol.	(1)					
163.	63. Identify the microorganism which is responsible for the production of an immunosuppressive n cyclosporin A :			on of an immunosuppressive molecule		
	(1) Clostridium buty	ylicum	(2) Aspergillus niger			
	(3) Streptococcus ce	erevisiae	(4) Trichoderma poly	zsporum		
Sol.	(4)					

NCERT 12th Page No. 181

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- **164.** Nitrogenous waste is excreted in the form of pellet or paste by :
 - (1) Salamandra

(2) Hippocampus

(3) Pavo

(4) Ornithorhynchus

- Sol. (3)
- **165.** Which of the following functions is not performed by secretions from salivary glands ?
 - (1) Digestion of complex carbohydrates
 - (2) Lubrication of oral cavity
 - (3) Digestion of disaccharides
 - (4) Control bacterial population in mouth
- Sol. (3)
- 166. Breeding crops with higher levels of vitamins and minerals or higher proteins and healthier fats is called ?(1) Bio-remediation (2) Bio-fortification
 - (3) Bio-accumulation (4) Bio-magnification
- Sol. (2)

NCERT 12th Page No. 166

- **167.** Which of the following is not the function of conduction part of respiratory system ?
 - (1) Inhaled air is humidified
 - (2) Temperature of inhaled air is brought to body temperaure
 - (3) Provides surface for diffusion of O_2 and CO_2
 - (4) It clears inhaled air from foreign particles
- Sol. (3)
- **168.** Natural selection where more individuals acquire specific character value other than the mean character value, leads to :
 - (1) Directional change(3) Random change

- (2) Disruptive change
- (4) Stabilising change

- Sol. (1)
- **169.** Which of the following statements with respect to endoplasmic reticulum is **incorrect** ?
 - (1) SER is devoid of ribosomes
 - (2) In prokaryotes only RER are present
 - (3) SER are the sites for lipid synthesis
 - (4) RER has ribosomes attached to ER
- Sol. (2)

NCERT 11th Page No. 133

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170. Given below are statements :

Statement I :

Autoimmune disorder is a condition where body defense mechanism recognizes its own cells as foreign bodies.

Statement II :

Rheumatoid arthritis is a condition where body does not attack self cells.

In the light of the above statements, choose the **most appropriate** answer from the option given below :

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

Sol. (2)

171. Under normal physiological conditions in human being every 100ml of oxygenated blood can deliver _____ml of O₂ to the tissues.

(1) 5 ml	(2) 4 ml	(3) 10 ml	(4) 2 ml
(I) J III	(2) 1 111	(5) 10 m	(1) 2 1111

Sol. (1)

172. In an E.coli strain i gene gets mutated and its product can not bind the inducer molecule. If growth medium is provided with lactose, what will be the outcome ?

(2) Areolar tissue

- (1) z, y, a genes will be transcribed
- (2) z, y, a genes will not be translated
- (3) RNA polymerase will bind the promoter region
- (4) Only z gene will get transcribed
- Sol. (2)

NCERT 12th Page No. 116, 117

- 173. Which of the following is present between the adjacent bones of the vertebral column ?
 - (1) Cartilage
 - (3) Smooth muscle (4) Intercalated discs
- Sol. (1)

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 A91-5

 A71-4

 A51-4

 451-4

 451-4

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174. Given below are two statements : one is labelled as assertion (A) and the other is labelled as Reason (R).Assertion (A)

All vertebrates are chordates but all chordates are not vertebrates.

Reason (R) :

Notochord is replaced by vertebral column in the adult vertebrates.

- In the light of the above statements, choose the most appropriate answer from the options given below
- (1) Both (A) and (R) are correct but (R) is not the correct explanation of (A)
- (2) (A) is correct but (R) is not correct
- (3) (A) is not correct but (R) is correct
- (4) Both (A) and (R) are correct and (R) is the correct explanation of (A)
- Sol. (4)
- **175.** Given below are two statements :

Statement I :

The release of sperms into the seminiferous tubules is called spermiation.

Statement II :

Spermiogenesis is the process of formation of sperm from spermatogonia.

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

(2) Gemmules

(4) Zoospores

- (1) Both statement I and statement II are incorrect
- (2) Statement I is correct but statement II is incorrect
- (3) Statement I is incorrect but statement II is correct
- (4) Both statement I and statement II are correct.
- Sol. (2)
- **176.** Identify the asexual reproductive structure associated with Penicillium :
 - (1) Conidia
 - (3) Buds
- Sol. (1)

NCERT 12th Page No. 6

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QUESTION PAPER WITH SOLUTION

177. Which of the following statements are true for spermatogenesis but do not hold true for Oogenesis ?

(a) It results in the formation of haploid gametes

(b) Differentiation of gamete occurs after the completion of meiosis

(c) Meiosis occurs continuously in a mitotically dividing stem cell population.

(d) It is controlled by the Luteinising hormone (LH) and Follicle Stimulating Hormone (FSH) sercreted by the anterior pituitary

(e) It is initiated at puberty

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Choose the most appropriate answer from the options give below :

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

Sol. (3)

178. Given below are two statements :

Statement I :

Restriction endonucleases recognise specific sequence to cut DNA known as palindromic nucleotide sequence.

Statement II :

Restriction endonucleases cut the DNA strand a little away from the centre of the palindromic site

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

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

NCERT 12th Page No. 196, 197

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MOTION® **QUESTION PAPER NEET 2022** WITH SOLUTION 179. Lippe's loop is a type of contraceptive used as : (1) Vault barrier (2) Non-Medicated IUD (3) Copper releasing IUD (4) Cervical barrier Sol. (2) 180. Detritivores breakdown detritus into smaller particles. This process is called : (2) humification (1) Fragmentation (4) Catabolism (3) Decomposition Sol. (1) NCERT 12th Page No. 243, 244

- **181.** Which of the following is not a connective tissue?
 - (1) Adipose tissue(2) Cartilage(3) Neuroglia(4) Blood
- Sol. (3) NCERT 11th Page No. 102, 103
- **182.** In which of the following animals, digestive tract has additional chambers like crop and gizzard ?
 - (1) Bufo, Balaenoptera, Bangarus
 - (2) Catla, Columba, Crocodilus
 - (3) Pavo, Psittacula, Corvus
 - (4) Corvus, Columba, Chameleon
- Sol. (3)

NCERT 11th Page No. 58, 59

183. Given below are two statements :

Statement I :

Fatty acids and glycerols cannot be absorbed into the blood.

Statement II :

Specialized lymphatic capillaries called lacteals carry chylomicrons into lymphatic vessels and ultimately into the blood.

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

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

Sol. (4)

NCERT 11th Page No. 265

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- **184.** Select the incorrect statement with reference to mitosis :
 - (1) Spindle fibres attach to centromere of chromosomes
 - (2) Chromosomes decondense at telophase.
 - (3) Splitting of centromere occurs at anaphase.
 - (4) All the chromosomes lie at the equator at metaphase.
- Sol. (1)

NCERT 11th Page No. 164, 165, 167

- 185. At which stage of life the oogenesis process is initiated ?
 - (1) Embryonic development stage(2) Birth(3) Adult(4) Puberty
- Sol. (1)

NCERT 12th Page No. 48

Section-B

186. The recombination frequency between the genes a & c is 5%, b & c is 15%, b & d is 9%, a & b 20%, c & d is 24% and a & d is 29%. What will be the sequence of these genes on a linear chromosome ?

(1) d, b, a, c	(2) a, b, c, d
(3) a, c, b, d	(4) a, d, b, c

Sol. (3)

NCERT 12th Page No. 83, 84

187. Which one of the following statements is correct ?

(1) The tricuspid and the bicuspid valves open due to the pressure exerted by the simultaneous contraction of the atria

- (2) Blood moves freely from atrium to the ventricle during joint diastole.
- (3) Increased ventricular pressure causes closing of the semilunar valves.
- (4) The atrio-ventricular node (AVN) generates an action potential to stimulate atrial contraction

Sol. (2)

NCERT 11th Page No. 284, 285

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188. Given below are two statements :

Statement I :

In a scrubber the exhaust from the thermal plant is passed through the electric wires to charge the dust particles.

Statement II :

Particulate matter (PM 2.5) can not be removed by scrubber but can be removed by an electrostatic precipitator.

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

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

Sol. (3)

NCERT 12th Page No. 271

189. Match List-I with List-II

List-I	List-II
(a) Bronchioles	(i) Dense Regular Connective tissue
(b) Goblet cell	(ii) Loose Connective Tissue
(c) Tendons	(iii) Glandular Tissue
(d) Adipose Tissue	(iv) Ciliated Epithelium
Choose the correct answer from the option	ons given below :
(1) (a) – (i), (b) – (ii), (c) – (iii), (d) – (iv)	(2) (a) – (ii), (b) – (i), (c) – (iv), (d) – (iii)
(3) (a) – (iii), (b) – (iv), (c) – (ii), (d) – (i)	(4) (a) – (iv), (b) – (iii), (c) – (i), (d) – (ii)
(4)	

Sol. (4)

NCERT 11th Page No. 102, 103

- **190.** Ten E.coli cells with ¹⁵N-dsDNA are incubated in medium containing ¹⁴N nucleotide. After 60 minutes, how many E.coli cells will have DNA totally free from ¹⁵N?
 - (1) 40 cells (2) 60 cells (3) 80 cells (4) 20 cells

Sol. (2)

NCERT 12th Page No. 104, 105

- **191.** Select the incorrect statement regarding synapses :
 - (1) Electrical current can flow directly from one neuron into the other across the electrical synapse.
 - (2) Chemical synapses use neurotransmitters
 - (3) Impulse transmission across a chemical synapse is always faster than that across an electrical synapse.
 - (4) The membranes of presynaptic and postsynaptic neurons are in close proximity in an electrical synapse.
- Sol. (3)

NCERT 11th Page No. 319

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192. Which of the following are **not** the effects of parathyroid hormone ?

(a) Stimulates the process of bone resorption

- (b) Decreases Ca2+ level in blood
- (c) Reabsorption of Ca²⁺ by renal tubules
- (d) Decreases the absorption of Ca2+ from digested food
- (e) Increases metabolism of carbohydrates
- Choose the most appropriate answer from the options given below :
- (1) (b), (d) and (e) only (2) (a) and (e) only
- (3) (b) and (c) only (4) (a) and (c) only

Sol. (1)

NCERT 11th Page No. 334

- **193.** Which of the following statements is not true ?
 - (1) Sweet potato and potato is an example of analogy
 - (2) Homology indicates common ancestry
 - (3) Flippers of penguins and dolphins are a pair of homologous organs
 - (4) Analogous structures are a result of convergent evolution
- Sol. (3)

NCERT 12th Page No. 130, 131

- **194.** If a colour blind female marries a man whose mother was also colour blind , what are the chances of her progeny having colour blindness ?
 - (1) 50 %
 (2) 75 %
 (3) 100 %
 (4) 25 %
- Sol. (3)

NCERT 12th Page No. 89

- **195.** Which of the following is a **correct** statement ?
 - (1) Bacteria are exclusively heterotrophic organisms
 - (2) Slime moulds are saprophytic organisms classified under Kingdom Monera.
 - (3) Mycoplasma have DNA, Ribsome and cell wall
 - (4) Cyanobacteria are a group of autotrophic organisms classified under kingdom Monera.
- Sol. (4)

NCERT 11th Page No. 20

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196. Match List-I with List-II.

List-I	List-II		
(Biological Molecules)	(Biological functions)		
(a) Glycogen	(i) Hormone		
(b) Globulin	(ii) Biocatalyst		
(c) Steroids	(iii) Antibody		
(d) Thrombin	(iv) Storage product		
Choose the correct answer from	the options given below :		
(1) (a) – (iv), (b) – (ii), (c) – (i), (d) – (iii)		
(2) (a) – (ii), (b) – (iv), (c) – (iii), (d) – (i)		
(3) (a) – (iv), (b) – (iii), (c) – (i), (c	l) – (ii)		
(4) (a) – (iii), (b) – (ii), (c) – (iv), (d) – (i)		
(3)			
NCERT 11 th Page No. 130, 131			
Which of the following is not a de	sirable feature of a cloning vector?		
(1) Presence of a marker gene. (2) Presence of single restriction enzyme site			
(3) Presence of two or more recognition sites (4) Presence of origin of replication			
(3)			
NCERT 12 th Page No. 198, 199, 2	200		
_	pect to methods of Contraception and their respective actions.		
List-I	List-II		
	(i) Inhibit ovulation and Implantation		
	(ii) Increase phagocytosis of sperm within uterus		
(c) Intra Uterine Devices	(iii) Absence of Menstrual cycle and ovulation following		
	parturition		
	(iv) They cover the cervix blocking the entry of sperms		
Choose the correct answer from the options given below :			
(1) (a) - (iv), (b) - (i), (c) - (ii), (d) - (iii) (2) (a) - (ii), (b) - (iv), (c) - (i), (d) - (iii) (c) - (i) (c) - (i), (d) - (iii) (c) - (i) (
(3) (a) – (iii), (b) – (ii), (c) – (i), (d) – (iv) (4) (a) – (iv), (b) – (i), (c) – (iii), (d) – (ii)		

Sol. (1)

Sol.

197.

Sol.

198.

NCERT 12th Page No. 60, 61

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199. Statements related to human insulin are given below:

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Which statement (s) is/are **correct** about genetically engineered Insulin?

(a) Pro-hormone insulin contain extra stretch of C-peptide.

(b) A-peptide and B-peptide chains of insulin were produced separately in E.coli, extracted and combined by creating disulphide bond between them.

(c) Insulin used for treating Diabetes was extracted from Cattles and Pigs.

(d) Pro-hormone Insulin needs to be processed for converting into a mature and functional hormone.

(e) Some patients develop allergic reactions to the foreign insulin.

Choose the **most appropriate** answer from the options given below :

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

Sol. (1)

NCERT 12th Page No. 210, 211

- **200.** Select the **incorrect** statement with respect to acquired immunity.
 - (1) Anamnestic response is elicited on subsequent encounters with the same pathogen.
 - (2) Anamnestic response is due to memory of first encounter.
 - (3) Acquired immunity is non-specific type of defense present at the time of birth
 - (4) Primary response is produced when our body encounters a pathogen for the first time.

Sol. (3)

NCERT 12th Page No. 151

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जेईई और नीट की तैयारी के लिए 1.4 लाख स्टूडेंट्स पहुंचे, एक लाख के और ऑने की उम्मीद

कोटा क्लासरूम कोचिंग का क्रेजः कोविड के बाद फिर लौटी शिक्षा नगरी की रौनक



शहर के लिए अच्छी खबर है। दो साल कोविड की मार झेलने के बाद कोटा कोचिंग में एक बार फिर रौनक लौट आई है। देशभर से स्टूडेट्स इजीनियरिंग व मेडिकल में प्रवेश परीक्षाओं की तैयारी के न प्रपेश परीक्षाओं की एवंसि के लिए एडमिशन ले रहे हैं। इससे हॉस्टल और मैस संचालक से ले कर डे यरी, फ्रूट–जूस, चाय–कॉफी थडी वाले, स्टेशनरी और ऑटो चालक तक, सभी खुश है। अच्छे एडमिशन से कोटा का लोकल बिजनेस बढेगा। दरअसल कोचिंग के लिए आने वाले बच्चों का पूरे साल का खर्चा करीब ढाई से तीन लाख रुपए होता है। यह राशि हॉस्टल, कोविंग, मेस और स्टूडेंट्स ने अप्रैल में ही कोटा पीजी मालिक से लेकर फुटकर आकर एडमिशन लेना शुरू कर पीजी मालिक से लेकर फुटकर

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है। इसके अलावा स्टेशनरी की दुकान से लेकर लॉन्ड्री, फुटकर खाने-पीने की दुकानों और अंटो-टेक्सी, मनोरंजन, बड़े रेस्टोरंट और मॉल भी हैं। कोविड-19 के चलते यह सभी लोग संकट में थे। रिकॉर्ड आवक की संभावना बोर्ड परीक्षाओं की समाप्ति के साथ ही कई राज्यों के

पोफेशनल्स फैकल्टीज के रूप में

सेवाएं दे रहे हैं। हमारे इस लक्ष्य

है। 2022–23 में 100 केंद्र क्लास रूम और ऑनलाइन करियर तो बनाते ही है. इसान क्लास रूम आर आनलाइन तैयारी करवाने के लिए जाना जाता है। प्रेरणा, दृढ सकत्प, ईमानदारी और सामाजिक सरोकार जैसे मूल्य मोशन को

500 स जावक त्यावक, या इनानपार जार तानाजिक पाठ तारण्डल पालार विला हो लिएन लाख से अधिक विद्यार्थियों का हो सरोकार जैसे मूल्य मोशन को स्टूडेंट्स मोशन एजुकेशन में गया और हम 50 हजार से दूसरों से अलग बनाते हैं। हमारे एडमिशन लेते हैं, उसके मुकाबले अधिक विद्यार्थियों की सफलता यहां विद्यार्थियों के शैक्षणिक, नीट, आईआईटी, जेईई में

नाशन (vgozशन का tov) र साथ(२ ५६) हा हना(२१ तक्षेत्र) दिसंबर 2007 को 10 हजार कि शुरुआत केवल आइंआईटी रुपए और एक कमरे की फिजिक्स डिवीजन के साथ हुई थी किन्तु क्लास के साथ शुरु हुआ था।15 आज मोशन एजुनेशन मेडिकल, साल में आज देशपर में मोशन के इंजीनियरिंग के साथ–साथ 55 से अधिक सेंटर कार्य कर रहे (नटीसी और ओलम्पियाडस की

लगातार प्रयास किए जाते हैं । यहां

प्रदान किए जाने वाले क्लासरूम

और ऑनलाइन कोचिंग का राइट

मिक्सचर वाले अकेडमिक सपोर्ट और पर्सनल केयरिंग के माध्यम से स्टडेंटस डॉक्टर और

और इसानियत के प्रति उनकी जिम्मेदारी निभाने की प्रेरणा भी

पाते हैं। **रिजल्ट बोलते हैं** जितने

नीट, आईआईटी, जेईई में

वैरिकसवागामणिवकासगरुएसिए विद्याख्यां क्मुकोवल सकेसस्टकी

में

इजीनियरिंग के क्षेत्र

नीट की तैयारी के लिए एक दर्जन बाकी है। ऐसे में बड़ी सख्या में रिकॉर्ड आवक की सभावना है।

लिए कोटा पहुंचे ।

कोटा शहर में करीब दो से सवा दो लाख विद्यार्थियां के लिए होस्टल पीजी रूम हैं। नए बच्चों की बात करें तो अभी तक 1 40 लाख से अधिक बच्चे आ चुके हैं।ये हॉस्टल में रह रहे हैं।अभी बच्चे आते रहेगे कोटा और इस तरह कोटा के सभी हॉस्टल फुल हो जाएंगे।

ज्यादातर विद्यार्थी विद्यार्थी हिन्दी पदी के वैसे तो देश के सभी 28 राज्यों

और 8 कंद्र शासित प्रदेशों से स्टूडेंट कोटा पहुंचते हैं लेकिन ज्यादातर विद्यार्थी हिन्दी पट्टी के 6 राज्यों से ही होते हैं। वर्ष 2019 में बिहार 32 हजार, उत्तर प्रदेश 28 हजार, राजस्थान से 27 हजार विद्यार्थी थे इ स के अ ल ा वामध्यप्रदेशा,छत्तीसगढ, गुजरात और महाराष्ट्र से 2 हजार, पंजाब, हरियाणा हिमाचलप्रदेश से 6000 और पश्चिम बगाल और ओडिशा से 7500 छात्र–छात्राए कोचिंग के

जानिए, क्यों उमड़ रहा स्टूडेंट्स का रैला

सफलता कोटा की फिजा में से रहे हैं और कोटा क्लास रूम के पुली हुई है। यहां काबिल फंकल्टी प्रति क्रेज दिखाई भी दे रहा है। ही नहीं, जहीन विद्यार्थियों की अब तक करीब 1 40 लाख मौजूदगी और कोचिंग, हॉस्टल, विद्यार्थी कोटा आ चुके हैं। सुरविद्या आतपण और अन्य देश में सभी स्टेट वोई एग्जाम सुविधाओं के कारण सफलता के समागत हो गए हैं। सीबीएसई के भी

शुविधोओ क कारण सांभलता के समागता हो गए है। सांबारसिंह के मा लिए खास इको सिस्टम है। दसवीं बांदे के एग्जाम ही चुके हैं स्टूडेट्स फ़्रेडली माहौल के कारण और 12वी के एग्जाम भी निपट देशासर– कश्मीर से कन्याकुमारी चुके हैं। ऐसे में स्टूडेट्स कोटा पहुंच और अरुणावल से कच्छ तक कर हे हैं और जाविंग इस्टीट्यूट नए स्टूडेंट्स इजीनियरिंगू व मेडिकल् नए वैच शुरू कर रहे हैं। पूर्वश परीक्षाओं की तैयारी करने कोटा कोचिंगः एक नजर

प्रवरा पराबाआ का तथारा करने कोटी कोविया र एक नजर के लिए यहा आकर कॉरियर बना 2 लाख लोगों की आजीविका रहे हैं। वर्ष 2019 में 1.65 निर्भर हैं कोटा में कोबिंग पर लाख विद्यार्थी कोटा आए थे। 1800 मेस और 3400 इसके बाद कोरोना के कारण होस्टल्स है।

इसक आद कारोगा क कारण हास्टरत्स हा कोविंग विद्यार्थी बहुत कम पहुंथे। **पिछल छह साल में कोटा में** कोविंग अॉनलाइन आधारित हो **कोविंग रस्ट्रेंट** गई थी, लेकिन स्क्रीन टाइम बढूने को विंया **पर्टुउंट** गई थी, लेकिन स्क्रीन टाइम बढूने को विद्यार्थियों की संख्या को रान्ट से होने वाला डिस्ट्रव्यून वर्ष विद्यार्थियों की संख्या के कारण ज्यादातर स्टूउंट्रस और 2017 01.50 लाख

2018 01.50 लाख पेरेट्स ऑनलाइन पढाई से संतुष्ट 2019 01.65 लाख न्रशकरूम कार्थिंग में मिलाने वाला 2020 35.00 हजार शिक्षक का पूरा ध्यान और कड़ी प्रतिरुपधं भी यहां नहीं निलती। ऐसे वें विद्यार्थी फिर से वलास रूम कोविंग का रूख कर क्लासरूम कोचिंग में मिलाने वाला 2020 35.00 हजार

नहीं है।

रणार पर हैं, उनके सपने से फेकल्टीज के मार्गदर्शन की दिम के रूप में हमने अपने निर्ध एडमीशन का सिलसिला चल रहा करने के लिए आपको दिन–रात साथ। लेकर सफलता तक के सफर में व्यवस्था की। जिन विद्यार्थियों ने तय कर रहे हैं, उन पर जोश और है। यह रहन हुई शुरुआत का समय है एक करना होंगे।आप प्रयास करते साथ रहते हैं। उनके हर समस्या कोविड में अपना सब कुछ खो जूनून के साथ काम कर रहे हैं और नया सत्र, नए संकल्प, लक्ष्य रहे, मंजिल जरूर मिलेगी। आपका अपना हमारी समस्या होती है और हम दिया, मोशन जनक भी सम्बल नए आयाम स्थापित कर रहे हैं। और नई उन्मीव लेकर आया है। आपको उजनित्र सिली नितन विजय

हमारे लिए हर विद्यार्थी खास है। सब कुछ थम गया तो भी हमने विस्तार से पहले हमारे लिए सेवा शिक्षकों का साथ, माता पिता और धर्म है। कोटा में आप जिस लक्ष्य वाली चुनौतियों का सामना करने हम चाहते हैं कि विद्यार्थियों को विद्यार्थियों का पूरा ध्यान रखा, हर का जज्बा है। हम डॉक्टर पूरे परिवार का समर्पण, शहर का के साथ आए हैं उसे हमेशा याद केलिए हम तैयार हैं और लर्निंग के अच्छे से अच्छा माहेल मिले और मदद की।पढ़ाई का नुकसान नहीं इंजीनियर ही नहीं, देश के सहयोग शामिल होता है।लोगों का रखी इरस आपको अपने संकल्प मामले में मोशन में आपका समय वे अपने मकसद में कामयाब हों। हो इसलिए डिजिटल क्लासे युक्त कर्णधार तैयार करते हैंजो देश को यह साथ ही हमें मजान ते जाते के साथ आए हैं उसे हमेशा याद केलिए हम तैयार हैं और लर्निंग के इसलिए हम हमेशा जनका खास कर विद्यार्थियों के लिए घर बैठे ऊंचाइयों पर के जारेगे आजा एक इन दिनों कोटा को विर्या में अपने संकल्प और लंग ने के साथ आए हैं उसे हमेशा याद के लिए हमते सुखब अनुमव इसलिए हम हमेशा जनका खास कर विद्यार्थियों के लिए घर बैठे ऊंचाइयों पर के जाएंगे आजा एक इन दिनों कोटा को दिन में अपने संकल्प और सपने के पूरा होने वाला है। शुमकामनाओं क ख्याल एखते हैं, उनके सपने से फेकल्टीज के मार्गर हम ही टीम के रूप में हमने अपने लक्ष्य एखनी हान को सिलसिला चल रहा करने के लिए आपको दिन–रात साथ।

रनाउँ गोरण होता है जोर हो परवा, भारी जेवले भारी परवा के आवार सामय कर रहे हो जो र कुछ लोड के सामय जायात्वया से ह उनके समाधान के लिए हर समय बना। विद्यार्थियों और अभिमावकी विद्यार्थियों की कामयाबी के उनकी कोटा आने वाले बच्चों से कहना सफलता है। मैं आपको विद्यालया (फाउंदर और मैं-तैयार रहते हैं। लोकडाउन में जब का विश्वास ही हमारी पूजी है। मेहनत और लगन के अलावा चाहूंगा कि पढाई करना आपका दिलाता हूं कि आपकी राह में आने मोशन एजुकेशन) सफलता है। मैं आपको विश्वास (फाउडर और मैनेजिग डाइरेक्टर

आपके संकल्प को सफलता में बदलने को तैयार हैं हम

कोटा

कोटा

मोशन एजुकेशन का सफर

शुरू करने की योजना है। मोशन परिवार 1100 कर्मचारियों, 500 से अधिक शिक्षकों, दो

सिंध्याई शिक्षम, चुन्हो कटर्स, !

आपके विश्वास ने मोशन को कोट में जेईई, नीट और ओलपियाड की तैयारी के लिए सबसे तेजी से बढने वाला और सर्वश्रेष्ठ कोचिंग संस्थान बना दिया है। मोशन हमारे लिए किसी इस्टीट्यट या संस्था का नाम नहीं है। हमारे लिए यह मिशन, जिम्मेदारी और संकल्प है संकल्प शिक्षा के क्षेत्र में बदलाव भावी पीढ़ी के करियर के सपनों को साकार करने का।

15 साल पहले एक कमरे की फिजिक्स क्लास से आगाज, हजारों जुड़े हैं आज

सक्सेस स्टोरी : सफलता के सपने साकार होते हैं यहा



अन्य कोचिंग के कारण कोटा नहीं आ पाते उनके दर किसी भी मुकाबले सबसे अधिक है।वेशभर लिए वेशभर में मोशन एजुकेशन सेन्मि रसूर एजुरेस्ट्रुस्ट्रेस् मोकेसी छोली मदलनिया सेंदर हैं। हुन्समें

लेश्वर, अंबिकापुर अ कर्ण रेप रे, आ व का युग पुरे, औरगाबाद, भुज, मिलाई, मुवनेश्वर, चेन्नई, चंद्रपुर, कोयबदूर, धौलपुर, दुर्ग, दुर्गापुर, गुवाहाटी, ग्वालियर, हिम्मतनगर, हमीरपुर, हावडा, देवराबाद, जगदलपुर, जम्मू, जलगाव, जुहू, मु बई, कठुआ, को ल्हापुर, कोलकाता, कोरबा, लखनऊ, लातूर, मालेगांव, मेहसाणा मुजफरपुर, नडियाद, नागपुर, नासिक, पालनपुर, पाटन गुजरात, पद्दूकोट्टई, पुलवामा रायपुर, राची, रीवा, राउरकेला श्चीमिस हुसुवरगढ, त्रिपुर, वडोवरा

बच्चों के लिए पॉजिटिव माहौल

मेरा बेटा इजीनियर बनना चाहता है। उसको लेकर यहा आया हू। कोटा वाकई शिक्षा की काशी है।इसमें पूरा देश समाया हुआ है। यहा चारों और स्टूडेंट, हॉस्टल, कीविंग का माहौल नजर आता है। लगता है यह शहर स्टूडेंट के सपना को साकार करने के लिए ही बना है। कोटा कोविंग की अच्छी बात है कि यहां परेट्स को स्टूडेंट्स की पढ़ाई और उपस्थिति के बारे में लगातार अपडेट रखा जाता है। **मनप्रीत सिंह**, जालन्धर, पंजाब

. ऑनलाइन पढ़ाई से बोर हो गए थे बच्चे कोरोना काल में ऑनलाइन पदना बच्चों के लिए बोरिंग रहा। जब फेस टू फेस बच्चा ऑफलाइन क्लास रूम में पदता है, तब बच्चे का एनजी लेवल काफी हाई होता है। कपीटेटिव एनवायरनमेंट भी यहां होता है। उम्मीद है कि कोटा में जिस तरह से पहले पढ़ाई होती रही है, इस बार भी अच्छी पढ़ाई यहा पर होगी। सभी कोटावासी बच्चों का यहां पर अच्छा ध्यान रखेंगे। खगेन कोलिता 'गोलाघाट' असम



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शिक्षक का सेमिनार, ऐसी भीड़ पहली बार

पटना में ऐतिहासिक रहा एनवी सर का मेगा करियर काउंसलिंग शिविर



तोगों की समता वाला पटना का लेती भीड़। जोश जज्जे के बीच बापू समागार खवाखब भरा था। सफलता, उत्साह और प्रेरणा के जी हां, हम बात कर रहे हैं शिक्षक सन्देश के साथ एनवी सर के नाम और मोशन एजुकेशन के से मशहूर जाने-माने शिक्षक और और मोहान एजुकेहान के से महाहूर जाने—माने शिक्षक और फाउडर, सीईओ एनवी सर के मोहान एजुकेहान के फाउडर और मेगा करियर काउसलिंग व सीईओ निति विजय। मोटिवेशनल शिविर की।

वे न नेता हैं और न ही अभिनेता पटना. खिले–खिले उत्साहित पटना के गांधी मैवान के बापू **लेकिन लोकप्रियता गजब नजर** चेहरे और कुछ सीखने की ललक सभागार का।सेमिनार में भाग लेने आ **रही थी। साढ़े पांच हजार** लिए हजारों विद्यार्थियों की हिलोरें वाले स्थानीय जानकारों का कहना यह नजारा था 10 अप्रेल को

था कि पटना में अपनी तरह का यह पहला आयोजन था। पहला आयाजन था। विद्यार्थियों को संबोधित करते हुए नितिन विजय ने कहा कि मुझे पढ़ाना पसन्द था, इसलिए मैंने आईआईटी में पढ़कर भी शिक्षक की भूमिका स्वीकार की। मोशन

एजुकशन हमार जारा आर जज्ब की कहानी है।इसकी शुरुआत 7 दिसम्बर 2007 को मात्र एक कमर की फिजिक्स क्लास से कुई थी। तब मेरे पास डिग्री के अलावा केवल परिवार से मिले संस्कार,

विद्यार्थियों की मदद का मिशन और निरंतर प्रयास का जज्बा ही था लेकिन आज मोशन लाखों

एजकेशन हमारे जोश ओर जज्बे लोगों की जिंदगी बदलने का हमारे यहां हर विद्यार्थी पर व्यक्तिगत ध्यान देते हैं। प्रेरित करते हैं, कक्षा की प्रतिस्पर्धा भी जरिया बन गया है। सेमिनार में पहुंचे माता-पिता को विजय ने कहा कि बच्चे की इच्छा का सम्मान अपना काम करती है। इसके करें, मुश्किल समय में अपने बच्चे का साथ दें। भरोसा रखें बच्चे भी आपको निराश नहीं करेंगे। नितिन विजय ने आह्वान किया कि अलावा हम सीखने–सिखाने के हाइब्रिड मॉडल इस्तेमाल करते हैं। इसमें ऑनलाइन और ऑफलाइन दोनों की खूबियां है। अगर आप कोटा आते हैं तो आपकी सफलता कोटा जाकर वहां की एनर्जी को जरूर महसूस करें। के लिए हर संभव प्रयास करेंगे।

सेमिनार में पहुंचे विद्यार्थी और अभिभावक बोले

सोशल मीडिया पर एनवी सर के वीडियो देखते थे। उनके पटना आने की खबर से ही हम बहुत उत्साहित थे। उनका पटना आना हमारे लिए बहत बडी बात है। 9 अप्रेल की रात को एक्साइटमेंट के कारण भुद्धा भुज भार हो। 5 जे जरा भूग राग भूग राग हुए। हुए। 5 भार इस्टिल में इमर्फ नी दन ही इस्टिल में इमर्फ नी दन ही छोरा सी मारा में उनसे रून्य रुहा है कि ऑल इण्डिया फर्स्ट रेंक मेरी ही होगी। घिन्यवाद एनवी सर। ऋषभकुमार भगत , सेमिनार के बाद

. सेमिनार में आकर अच्छा लगा । सेमिनार में बच्चों की शिक्षा के बारे में बताया है। यहा आकर सोचने का मौका मिला कि कैसे पढ़ाना है, आगे बढ़ाना है ।

एक अभिभावक , सेमिनार के बाद

जेईई की तैयारी के लिए कोटा जाना चाहता था। पहले थोड़ा नर्वस था प्रस्य का प्रवास कारण कामा वारता था। पश्चरा था। पश्चरा था। अनजान शहर में लाइफ कैसे चलेगी लेकिन एनवी सर को सुनकर मेरा असमंजस दूर हो गया। अब मैं कोटा जाकर कोचिंग लूंगा। सुमित रंजन, सेमिनार के बाद

सच कहूं, इतना बड़ा सेमिनार और ऐसा प्रेम जीवन में पहली बार मिला है। इसके लिए कृतज्ञ महसूस कर रहा हूं। एक शिक्षक के नाते इतना प्रेम मिलेगा सोचा भी ना था।

नितिन विजय, (फाउंडर और सीईओ, मोशन एजुकेशन)

परवरिश भावनात्मक जुड़ाव से ही आएगा बच्चों में बदलाव

कोटा

हम अपने बच्चे को जैसा बनाना चाहते हैं वैसे पहले हम बनें। बात। प्रोफेशनल सक्सेस और मिसाल के लिए यदि कोई काम समझ परेटिंग में काम नहीं आती आपकी पसंद के मुताबिक नहीं होता है तो आप गुस्सा जाहिर करते हैं।

करत ह। मानकर चलें कि बच्चे के मन की नहीं होगी तो वह भी गुस्सा ही करेगा। घर-घर की कहानी है... ज्यादातर अभिभावक परेशान रहते हैं... कहते हैं बच्चे बात नहीं मानते, गुस्सा करते हैं, टीवी, मोबाइल, गेमिंग में लगे रहते हैं, माबाइल, गीमंग में लगे रहते हैं, पढ़ते नहीं, वे बच्चों को समझाते, धमकाते और कई बार मारपीट भी करते हैं, पर सुधार नहीं आता करें तो क्या करें, वे तय नहीं कर पाते, सीचते हैं आखिर कमी कहा रह गई ...।

दरअसल आप बहुत सफल उद्योगपति अधिकारी डॉक्टर इंजीनियर या कुछ भी हो सकते हैं । लेकिन करियर की सफलता



अनुभव और विश्वास के मुताबिक ही होता है। यही कारण है कि आपका रोकना—टौकना, धमकाना बेअसर रहता है। **सुशीला विजय**, डायरेक्टर मोशन एजुकेशन आप यदि बच्चे को डांटेंगे.

आप पांच बच्च की डाटन, धमकाएंगे तो वह आपसे दूर हो जाएगा। डर के वह एक बार आपकी बात मान भी ले पर यह ऐसे आएगा बदलावः बदलाव की प्रक्रिया को हम आपकी बात मान भी ले पर यह बदलाव की प्रक्रिया को हम एक स्थायी नहीं होगा। इसके अलावा जवाहरण से समझते हैं। कोई खूब आपही सोशिय जिस बच्चे के साथ गुटखा खाता है। उसको भी पता है आप मारपीट कर रहे हैं, कल वह कि इससे कैंसर हो सकता है जब बड़ा होगा और आप बूढ़े तो लेकिन वह फिर भी गुटखा खान क्या उसके मन में आपके लिए वह है। लेकिन एक दिन गुटखा खान यार और सम्मान होगा। शायद वह वाला उसका खास दोस्त कैंसर से भी आपसे सख्ती से पेश आए...। चल बसता है। अचानक जसमें



हआ था।

एक

डॉ. स्वाति विजय डायरेक्टर मोशन एजुकेशन

बदलाव आता है और वह गुटखा खाना छोड़ देता है। दरअसल यह बात तो वह पहले भी जानता था बिए (1) पुरु १२०१ ना जा रहा ना कि गुटरखा जहर है लेकिन बदलाव इसलिए आता है कि वह अपने दोस्त से भावनात्मक रूप से जुडा

बदलाव की शुरुआत खुद से करनी होगीः

हम ओरिजनल कॉपी हैं तो बच्चा आपकी पसंद के मुताबिक नहीं होता है तो आप गुस्सा जाहिर करते हैं।मानकर चलें कि बच्चे के मन की नहीं होगी तो वह भी गुस्सा ही करेगा ।

बच्चों से जुड़ें: बच्चा आपकी बात सुने और माने इसके लिए आपस में भावनात्मक जुडाव जरूरी है। आपका बच्चे से इमोशनल कनेक्शन होगा तो उसके मन में स्वाभाविक प्यार और सम्मान होगा और वह आपकी

रोज 20 से 30 मिनट वह काम हम ओरिजनल कापा ह रा भज्म हमारी चुर्शाकेट कॉभी है। वह करें जिससे बच्चा मावनात्मक रूप हमको देखकर सीखता है। से आपसे जुद्दे। उससे बातें करना, इसलिए हम अपने बच्चे को जैसा। उसके साथ किताब पटना, उसकी ज्याना जाहते हैं. पहले हम बनें। पसंद की फिल्म वेखना, अताक्षरी भगागा भारत छ, नरहरा हुए बना भारत का मुख्य का मुख्य खाता, आवाज के बच्चे में बदलाव चाहते हैं तो या कुश्ती, लुका-छिभी, पिलो शुरूआत खुद से करनी होगी। फाइटिंग जो भी उसको अच्छा उदाहरण के लिए यदि कोई काम लगता हो, वह करें। यह बच्चे और आपके बीच जरूर प्यारा सा रिश्ता यह इतना महत्वपूर्ण नहीं है।जरूरी यह है कि बच्चे के लिए क्या सही है। जगाएगा

अकेले में निपटाए झगडे: बच्चे के लिए आप आइडल है या

पढाई को लेकर दबाव नही कहे कि आप उसके भगवान की तरह हैं। उसके सामने बहस, झगड़ा ना करें। इससे उसे बुरा महसूस होगा। उसके मन में आपके बनाएः आप ही क्या कोई अभिभावक प्रसद नहीं करगा कि बच्चा 100 फीसदी नम्बर लाए पर उनका सम्मान नहीं करे, उनसे प्यार नहीं करें। आप बच्चे को पढाई की लिए सम्मान नहीं रहेगा। जरूरी है कि मम्मी–पापा एक टीम में नजर आएं।

ज्यादातर परिवारों में होता यह है अहमियत तो बताए पर इसके लिए जिला है जा का से से जानने अनुवारी राजवारी के किस के किनान के किनान के किस के कि करूस सुनेना। आप पूछेंगे, यह कि मम्मी मना करती है तो पापा दवाव नहीं बनाएं। उसे समझाए जुड़ाव बनेगा कैसे... इसके लिए डिमांड पूरी कर देते हैं। कि फोकस रहकर पूरी कोशिश जरूरी है कि बच्चे को समय दें। मम्मी-पापा सख्ती दिखाते हैं तो करे तो उसके बाद जो भी हासिल

वादा-वादी या दूसरे बड़े बच्चों की मांग पूरी कर देते हैं। ऐसे में होता यह है कि घर में बड़े एक दूसरे पर आरोप लगाने लगते हैं कि आपकी वजह से बच्चा बिगड़ होगा, वह आपको सहज स्वीकार होगा । आपका मकसद केवल यही होना चाहिए कि बच्चा जिंदगी में आत्मनिर्भर बने, खुश रहे। इसलिए लिए उसको व्यक्तिगत, पारिवारिक, करियर, सामाजिक जिदगी में सतुलन साधने की कला रहा है। बड़ों का ऐसा बर्ताव बच्चों के जीवन की लय बिगाडता है। के जीवन की लय बिगाडता है। इसलिए परिवार में तालमेल जरूरी है। याद रखें-कौन सही है,

सिखाएं। जमाना बदल रहा, आप भी बदलें :

भूचना क्रांति ने बचपन को पूरी तरह बदलकर रख दिया है।समय बदला है तो पैरेंटिंग का तरीका भी

बदला है। आज बच्चे टीवी, कप्यूटर, मोबाइल के साथ बड़े हो रहे हैं। आप मानकर चले आपके समय के जाव गांगकर यहा जावक समय क मुकाबले आज बच्चों के पास जानकारी बहुत अधिक है। ऐसे में आज पैरेटिंग टीम वर्क ओर सतत सीखने की प्रक्रिया हो गई है। ऐसे में लर्निग–टीचिंग को तैयार रहे।

मायबिजकिड : लाइफ स्किल्स सीखकर करें सफलता का आगाज

भविष्य की तैयारी आज हो गई तो मिलेगा फायदा

कोटा इंजीनियर, सीए, विधि विशेषज्ञ स्किल्स की जरूरत महसूस होती सीए, केट, क्लेट जैसे प्रतियोगिता हमारा एजुकेशन सिस्टम ऐसा है जैसे प्रोफेशनल बन जाते हैं तो है। मायविजकिड इसी कमी को परीक्षाओं का दवाव आ जाएगा, कि जो सब्जेक्ट की जानकारी तो अगले स्टेप में आप खुद को एक पूरा करने का प्रयास है। आपका जसके बाद प्रोफेशनल देता है लेकिन व्यावहारिक टीम लीडर, फाइनेंस मैनेजर, बच्चा यदि 8 से 16 साल का है व्यरस्ता रहेगी। चुनौतियों से कैसे निपटना है, कम्युनिकेटर... की मुसिका में पाते तो जरूरी लाइफ सिकल्स को नितिन विजय, फाउंडर और इसके बारे में कुछ नहीं बताया है। नई जिम्मेदारियों के मुताबिक सीखने का सही समय है। बाद में सीईओ, मोरान एजुकेशन जाता। जब आप अच्छे डॉक्टर, आपको इन कई जरूरी लाइफ रक्त पर बोर्ड एग्जाम, नीट, जेईई,

लाइफ स्किल्स को अनदेखा करती है हमारी शिक्षा प्रणाली मायबिजकिड में है समाधान

कोटा क्या आपको लगता है कि सिर्फ किताबी ज्ञान से नेतृत्व कर दुनिया में सफलता हासिल की जा सकती है। नहीं न । दरअसल हमारी शिक्षा प्रणाली विज्ञान, गणित, सामाजिक अध्ययन, लेखाशास्त्र, अर्थशास्त्र जैसे विषय तो पढाती है लेकिन बहुत ही महत्वपूर्ण चीज लाइफ स्किल्स को अनदेखा किया जाता

है। वेश में गत एक वशक में कॉलेजो देश में गत एक दशक में कलिंजो की संख्या में तीन गुना वृद्धि हुई है और वे हर साल लगभग 3.7 करोड़ स्नातक पैदा करते हैं। उ लेकिन विडम्बना है कि शिक्षा के प् स्तर में वृद्धि के साथ ही 1 बेरोजगारी दर में वृद्धि हुई है। व तकनीक ने कई कार्यों के दे

LET'S TEACH LIFE SKILLS TO KIDS

संख्या और कम हो गई है । ऐसे में है आज लाखा शिक्षित युवाओं के लिए रोजगार के नए अवसर पैदा करना देश के सामने बडी चुनौती है। आज हमें नौकरी चाहने वालों के बजाय नौकरी देने वाले यानी तकनीक ने कई कायों के है। आज हमें नौकरी चाहने वालों मायबिजकिड बच्चों को एक उद्यमी ऑटोमेशन को जन्म दिया है, के बजाय नौकरी देने वाले यानी और समस्या समाधानकर्ता बनने जिससे उपलब्ध नौकरियों की दूरदृष्टि वाले उद्यमियों की जरूरत के लिए प्रशिक्षित करता है। यह



उपयोगी कौशल और ज्ञान प्रवान करता है। यह कार्यक्रम आपको या समझने में मदद करेगा वि कि उद्यमिता क्या है. आपको यह दिखाएगा कि एक उद्यमी बनने के



कोटा

क्या आप अपने बच्चे को भविष्य में बिजनेस लीडर या इन्वेस्टर के रूप में देखते हैं... क्या आपको लगता है कि वह एक कपनी शुरू करेगा या अपेक्षाकृत तेजी से कॉर्पोरेट जगत में तरक्की की सीढ़िया चढ़ेगा... यदि ऐसा है तो व्यवसाय की दुनिया के एडवेंचर की जर्नी शुरू करने के लिए मायबिजकिड आदर्श जरिया है। भायोबपाकड आदश जारया हो। ग्राणिकस क जारए मजदा रतराक मायबिपकिड बच्चों के लिए से सिखाते हैं। हम बच्चे को दुनिया का पहला बिजनेस और इसते-खेलते उद्यमिता की राह पर फाइनेंस लर्निंग प्लेटफॉर्म हैं या ले जाते हैं। बेन स्टॉमिंग के जरिए कहे कि बच्चों के लिए लिए उसको चुनौतिया का सामना करने ऑनलाइन एमबीए जैसा है। चार लायक बनाते हैं। ऐसा माहौल देते भारताश्चर (राषार जाता है। यार माह के इस पाठ्यक्रम में 55+ लाइव सेशन हैं। इसमें हम लेकर आए हैं जुद्योग जगत के लीर्ड्स और आईआईएम के एक्सपर्टस की व्यावसायिक समझ | इसमें दो तरह के प्रोग्राम है–पहला 8 से

Learn To Lead!

जाओ, होमवर्क करो और अच्छे हमारे इन्वेस्टर के सामने पेश होने से आया। मोशन एजुकेशन की नंबर लो, वाले परपरागत तरीके का अवसर मिलेगा। यदि आपके 1,5 साल की जर्मी में हमसे कई से नहीं पदादे। कम्युनिकेशन बच्चे का आयडिया प्रमावी लगता छोटी-बड़ी गलतियां हुई।यदि इन स्किल, लीडपशिप, टीम बर्क, है तो मायबिजकिड 200000 गलतियों के बारे में पता होता तो ारकल, लाङराशप, टाम वक, बजट स्किल, आत्मविश्वास बनाने, जीवन के लिए व्यावहारिक दृष्टिकोण, निर्णय लेने और समस्या समाधान की कला सिखाते हैं। यह सब उसको स्टोरी टेलिंग, गेम्स, एनिमेशन और ग्राफिक्स के जरिए मजेदार तरीके

लायक बनाते हैं। ऐसा माहौल देते हैं जहां वे यूनीक बिजनेस आइडिया से सपन्न बिजनेस लीडर की तरह तैयार हो सके । बिजनेस आइडिया आजमाने का मौका :

मायबिजकिड के जरिए आपके रारेक थ आश्रम दन्यरुगा । दे से नावाबजायरु ये आरंश आपये विषयी बताता हन्द्रस आजयर का ।। और दूसरा।। 2 से। 6 साल बच्चे के रीयल टाइम बिजनेस शुरू करने का आयडिया एनवी तक के बच्चों के लिए। आइडिया को आजमाने का मौका सर के साथ मॉशन एजुकेशन मायबिजकिड में हम–पढ़कर घर भी मिलता है। इसके तहत उनको संचालन के दौरान मिले अनुभव

तक की फडिंग का वादा करता है। हम कई परेशानियों से बच सकते उन्हे हमारे एक्सपर्ट्स की गाइडलाइन भी मिलती है। सफल और औसत लोगों में अंतर केवल बेसिक लाइफ स्किल्स का : मोशन एजुकेशन के फाउंडर, सीईओ और जाने-माने शिक्षक,

मोटिवेटर नितिन विजय बच्चों को भाटपटर (मातन पिजय बच्चा क) पढ़ाने और प्रबंधन के अपने 1 7 वर्ष से अनुभव के आधार पर मायबिजकिड की अवधारणा मायबिजकिंड की अवधारणा लेकर आए। डॉ स्वाति विजय की देखरेख में बाल मनोवैज्ञानिकों की सलाह से इसकी अध्ययन सामग्री को इस तरह डिजाइन किया कि बच्चा पाठ्यक्रम का अधिकतम लाभ उठा सकता है। डॉ. स्वाति विजय बताती हैं-इस प्रोजेक्ट को

हेन कई परशानिया से बंध सकत थे और ज्यादा आसानी हो सकती थी। माय बिज किड में हम बच्चों को ऐसी ही जानकारिया देंगे जो को ऐसी ही जानकारियां देंगे जो उनको स्टार्टअप शुरू कर उसे वलाने के बारे में बताएगा । हर कोई मानता है कि सफल और औरत लोगां के व्यवहार में महत्वपूर्ण अंतर होता है, लेकिन साधमांगेपूर्वज तथ्यां के अध्ययन से हमने पाया कि अंतर केवल वुनियारी जीवन कोशल का है जो हम कम उम्र मं सीखते हैं। हम इन पावन को शाल को वारतविक दुनिया में कैसे लागू करें, यह सिखाकर अंतर को पाटते है। पात्वकम का प्रको अहका दिस्मा पाठ्यक्रम का सबसे अच्छा हिस्सा यह है कि इसे इस तरह से बनाया गया है कि यह बच्चे को उसके जीवन के हर पहलू में लाभान्वित करेगा।

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NV Sir को बिजनेस वर्ल्ड डिसरप्ट 40 अंडर 40 Award

शिक्षा के क्षेत्र में उल्लेखनीय कार्य के लिए किया सम्मान

मोशन एजुकेशन के फाउंडर और सीई ओ नितिन विजय को जानी मानी बिजने स पत्रिका–बिजनेस वर्ल्ड की ओर से-बीडब्ल्यू डिसरण्ट 40 अंडर 40- अवार्ड से सम्मानित किया गया है। शिक्षा के क्षेत्र में जल्लेखनीय कार्य के लिए उन्हें यह सम्मान दिया गया। गुरुग्राम के होटल लीला पैलेस में आयोजित समारोह में सम्मान पर प्रतिक्रिया में विजय ने कहा– मैं शिक्षा की काशी कहलाने वाले कोटा से आता हूं और एक शिक्षक



के रूप में पहचाना जाता हूं। कभी ओर हर बच्चा अलग होता है सोचा नहीं था कि एक उद्यमी के लेकिन बच्चों को एक जैसी ही रूप में अवार्ड मिलेगा। उन्होंने शिक्षा दी जाती है जबकि उनकी अपनी उपलब्धि माता –पिता. सम स्या का समाधान पत्नी, मोशन टीम और विद्यार्थियों अलग–अलग ही होता है। को समर्पित की। इस मौके पर गौरतलब है कि सम्मान समारोह दीजय ने कहा कि हम शिक्षा की का आयोगननई दिल्ली आधारित गुणवत्ता बढाने और लागत कम जानी-मानी विजनेस पत्रिका करने के मिशन पर कार्य कर रहे बिजनेस वर्ल्ड की ओर से किया हैं किस्टमाइजेशन ऑफ एजुकेशन गया था। इस पत्रिका का प्रकाशन की ओर जा रहे हैं। उन्होंने कहा– हेल्थ केयर के क्षेत्र में जब भी पेशेंट 1983 में टेलीग्राफ की प्रकाशक आनंद बाजार पत्रिका ने शुरू आता है तो उसको बताना पड़ता किया था। अनुराग बत्रा इसके कि उस क्या बीमारी है। दूसरी संपादकहैं।



मोशन एजकेशन के फाउंडर -सीर्ट ओ नितिन विजय को बिजनेस वर्ल्ड की ओर से बेस्ट इंटरप्रेन्योर अवार्ड-40 अंडर 40 के समारोह का वीडियो देखने के लिए यह क्यू आर कोड स्केन करें।



कोटा अब मोशन में है नॉलेज के ऑशन में है...

स्टेशन पर अब ऑटो वाले भैया कोचिंग्स के डायरेक्शन में है, राजीव गांधी नगर हो या जवाहर नगर. सारे होस्टल्स, पीजी भी फुल ऑन टशन में है, क्योंकि कोटा अब मोशन में है।

चिडियों की चहक और गरमा–गरम कचौडियों की महक के साथ पोहे. पेटीज और मोमोस भी फिर से सर्कुलेशन में है क्योंकि कोटा अब मोशन में है।

क्लास में फिर बच्चों की खिलखिलाहट सुनकर वलास न फिर बच्चा का खिलाखा हर टीचर के चेहरे पर मुस्कान है, स्टूडेंट्स भी अपनी आखों में

जेईई—नीट क्रैक करने के सपने लिए क्लासरूम में पढ रहे पूरे डिवोशन में है, क्योंकि कोटा अब मोशन में है। अब क्लासरुम से कैंपस तक हर जगह है शोर, एनवी सर कोई हसगुल्ला छोड़े तो जोर से आवाज आती है वन्स मोर, डाउट काउंटर के बाहर स्टूडेंट्स भी अपने हर डाउट को नोट किए इंतजार-ए-सोल्यशन में है क्योंकि कोटा अब मोशन में है।

स्टेशनरी पर सिर्फ आरडी शर्मा, एचसी वर्मा सुनाई देता है, हर गली, कॉलोनी में बच्चों का जमावडा दिखाई देता है.





Nitin Vijay (NV Sir)

Amit Verma (AV Sir)

Dr. Ashish Maheshwari (AM Sir)

Jitendra Chandwani (JC Sir)

Ashish Bajpai (AB Sir)

Lalit Vijay (LV Sir)

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भाग पहुँ जानने के लिए नारेंट प्राप्तित का ध्यान में रखा जाएगा। मेरिट सूची में अधिकारियों द्वारा विशेष श्रेणियों में उपलब्ध सीटों की संख्या से चार गुना ज्यादा परीक्षार्थियों को शामिल किया जाएगा। प्रत्येक श्रेणी में अतिम परीक्षार्थी द्वारा प्राप्त किया गया प्रतिशत स्कोर NEET

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नीट में चयनित विद्यार्थी इन कॉलेज में ले सकते है एडमिशन

18 लाख विद्यार्थी दे रहें है नीट 2022 की परीक्षा, 612 मेडिकल कॉलेज और 91927 सीट्स के लिए परीक्षा का आयोजन

नीट, मेडिकल जैसे विभिन्न पाठयक्रमों में केवल उन्हें ही प्रवेश की आगामी प्रक्रियाओं के उम्मीदवारों को प्रवेश देने के लिए स्वयं की प्रवेश परीक्षा का संचालन करता है। इस बार NEET 2022 का कट ऑफ प्रतिशत अको के रूप में जारी किया जाएगा, कट ऑफ परीक्षार्थी के योग्य माने जाने का मापदड होता है। परीक्षार्थियों द्वारा प्रवेश परीक्षा में प्राप्त किये गए अको के आधार पर प्रतिशत अक की गणना की जाएगी और फिर् आगे सामान्य प्रक्रिया लागू होगी। जो परीक्षार्थी NEET 2022 की कट-ऑफ के बराबर या उससे अधिक अंक प्राप्त करेंगे,

Top Government	Seats		OBC	
Medical College	Seats	Rank	Rank	Rank
MMS New Delhi	125	53	256	875

TOP COLLEGES ON THE BASIS OF AIIMS 2021

AllMS New Delhi	125	53	256	875	4820
AIIMS Jodhpur	125	8855	1242	84045	16903
AIIMS Bhopal	125	572	1235	7905	24629
AIIMS Bibi Nagar Telangana	62	19796	6841	34449	49612
AIIMS Bhubaneswar	125	3719	1306	7136	63824
AIIMS Bathinda	100	8855	3130	84045	48344
AIIMS Mangalagiri	125	4388	6544	27923	46174
AIIMS Rishikesh	125	7027	1836	14388	51247
AIIMS Raipur	125	17941	2146	23342	58873
AllMS Kalyani	125	12259	6856	49984	66326
AIIMS Patna	125	12041	19793	105598	60121
AIIMS Rajkot	50	5580	20156	43097	81716
AIIMS Bilaspur	50	4142	7191	42343	63142
AIIMS Nagpur	125	18186	3394	21841	45713
AIIMS Guahawti	50	8319	8483	105837	71700
AllMS Gorakhpur	125	3437	4662	34677	62192
AIIMS Jammu	50	8115	20074	86250	64858
AIIMS Rai Bareli	100	4572	5080	103776	62084
AIIMS Deogarh	62	6318	19831	104065	124211
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.IIPMFR 2021

JIPMER Puducherry	150	26107	42658	906861	146530
JIPMER Karaikal	50	62036	49453	NA	171972
TOP COLLEGES ON THE	BASIS O	F NEET (ALL INDIA	QUOTA)	2021
Top Government			OBC		
Medical College		Rank	Rank	Rank	Rank
Maulana Azad Medical College, New Delhi		87	372	6966	1438
Stanley Medical College, Chennai		9446	12003	106238	55081
University College of Medical Science ,New	v delhi	2085	830	16798	3319
Lady Hardinge Medical College, Delhi		579	1127	37077	8726
Seth Gordhandas Sunderdas Medical Colleg	ge, Mumbai	773	6783	56313	26577
Grant Medical College, Mumbai		18292	10505	94949	103436
Madras Medical College, Chennai		755	3728	55718	39570
Vardhman Mahavir College, Delhi		143	472	12809	28650
SMS Medical College, Jaipur		731	19765	26396	20366
SN Medical College, Jodhpur		19737	8486	54600	66248
Government Medical College Hospital, Patiala		4492	20651	117465	55398
Lokamanya Tilak Municipal Medical College, Mumbai		4264	14527	111607	106911
R.G. Kar Medical College and Hospital, Kolkata		1674	3468	76324	11687
Gandhi Medical College, Secundrabad		4014	5997	35330	42201
B J Medical College, Ahmedabad		721	2168	124146	9767
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आपकी करोड़ों में एक लाड़ली को,

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NEET 2023/24 की तैयारी!



Why is there a requirement for a separate girls' NEET batch?

Comparing the registration ratio of students in the NEET programs, it is discovered that the ratio of girls in the NEET batch is always high. Hence, to maintain the comfort zone of girls and discipline in the batch, Motion Education has divided the NEET batches. There is not only a separate batch for girls and boys but also the batch strength is limited. Through this, students enrolled in the NEET girls batch get the proper attention of their faculties. In addition, this batch is safe and conducted during the even hours so that girls don't face trouble coming to classes.

Is the fee structure for classes XI, XII and XII passed the same?

The discounted fee for enrollment in the NEET girls batch is 75,000 INR per year. All the girls enrolling in this NEET program whether they are in class XI, XII or drop year have to only pay 75,000 INR. Also, there will be no extra charges taken for the facilities offered by Motion Education like the study material and unlimited access to Motion Learning App.

- What are the benefits of joining the NEET girls batch? There are many benefits that students can avail themselves of through the classroom course of NEET program. Some of these include:
- Get the guidance of Kota's top NEET faculties
- Comprehensive study material
- * Regular doubt support
- Exam pattern-based test series (weekly/monthly test)
 DPP, PYQs, CPS, and access
- to Motion Learning App
- What will be the teaching medium of the lectures and study material provided to aspirants in the NEET girls batch?

Motion's priority is to facilitate the best resources and aid to students of both English and Hindi mediums. This is the reason we conduct classes for English as well as Hindi medium students. Study material distributed to students is also based on the choice of medium they opt for during the registration.

 मोशन प्रयास के अंतर्गत विद्यार्थियों को क्या-क्या सुविधाएं मिलॅगी? मोशन प्रयास के अंतर्गत कोविंग, हॉस्टल, भोजन

एवं स्कूल की सुविधा दी जाएगी जिससे परिजन इन सभी आवश्यकताओं की उपलब्धता एव गुणवता को लेकर निश्चित हो सके एवं विद्यार्थी अपना सम्पूर्ण ध्यान प्रतियोगी परीक्षा की तैयारी में लगा सके ।

- मोशन प्रयास में प्रवेश लेने वाले विद्यार्थियों को पाठ्य सामग्री किस भाषा में प्राप्त होगी? मोशन प्रयास के अंतर्गत विद्यार्थियों की सुविधानुसार सम्पूर्ण पाठ्य सामग्री (स्टडी मटेरियल), टेस्ट सीरीज, डेली प्रॉब्लम प्रेविटस शीट इत्यावि हिंदी माध्यम में उपलब्ध होगी जिससे उन्हें समझने में कोई समस्या ना हो और विद्यार्थी मन लगाकर अध्ययन कर सकें।
- क्या हॉस्टल, स्कूल एवं भोजन आदि की फीस मोशन प्रयास की फीस के अतिरिक्त होगी? मोशन प्रयास में एडमिशन लेने वाले विद्यार्थियों के लिए कोचिंग एवं स्कूल के साथ साथ ही 3 । मार्च 2023 तक हॉस्टल एवं मोजन की सभी सुविधाएं एक ही फीस में होगी। जहां प्रयास कोर्स फीस रुपए 160000/- जमा कराने के पश्चात विद्यार्थी पूरी तरह से मोशन एजुकेशन की जिम्मेदारी पर होगा।
- मोशन प्रयास में 11वीं एवं 12वीं के हिंदी–इंग्लिश जैसे अनिवार्य विषय की तैयारी के लिए कोई सुविधा होगी?

मोशन प्रयास के अंतर्गत आवश्यकता अनुसार बोर्ड परीक्षाओं की दृष्टि से हिंदी एवं इंग्लिश जैसे विषयों की तैयारी भी विषय विशेषज्ञों द्वारा करवाई जाएगी जिससे विद्यार्थी को बेहतर बोर्ड स्कोर में भी मदद मिल सकेगी।

 मोशन प्रयास के अंतर्गत छात्र एव छात्राओं के लिए किस तरह से हॉस्टल की सुविधा प्रदान की जाएगी?

मोशन प्रयास में छात्र एवं छात्राओं के लिए

पृथक–पृथक हॉस्टल की व्यवस्था होगी जिससे वे शांत एवं सुरक्षित वातावरण में अध्ययन कर सकें।

 मोशन प्रयास के अंतर्गत अध्ययन करने वाले विद्यार्थियों को क्लासरूम कोचिंग के अतिरिक्त और क्या सुविधा मिलेगी?

मोशन प्रयास के अंतर्गत अध्ययन करने वाले विद्यार्थियों को क्लासरूम कोचिंग के अतिरिक्त मोशन लर्निंग एप की सुविधा भी दी जाएगी जिससे वे वीडियो लेक्चर के माध्यम से रिवीजन कर सकते हैं और क्लास की लाइव रिकॉर्डिंग को फिर से दोहराने के साथ साथ ही अपने स्तर के अनुसार टेस्ट देकर अपनी तैयारी को परख सकते हैं।

 मोशन प्रयास में क्या केवल मेडिकल एवं इंजीनियरिंग की तैयारी करावाई जाएगी। 12वीं बोर्ड की तैयारी कैसे करें?

मोशन प्रयास के अंतर्गत हर छोटे से लेकर बड़े टॉपिक को इस तरह से पढाया जाएगा कि विद्यार्थियों को मेडिकल अथवा इजीनियरिंग के साथ ही 11वीं एवं 12वीं की भी तैयारी हो सके। विद्यार्थियों को इसके लिए अतिरेक्त कोविंग लेने की आवश्यकता नहीं होगी।

मोशन प्रयास में फीस जमा करने का तरीका?

मोशन प्रयास कोर्स मे रजिस्ट्रेशन होने के बाद स्टूडेंट बैंक की ब्याज रहित आसान मासिक किश्तो मे अपनी फीस जमा कर सकता है।

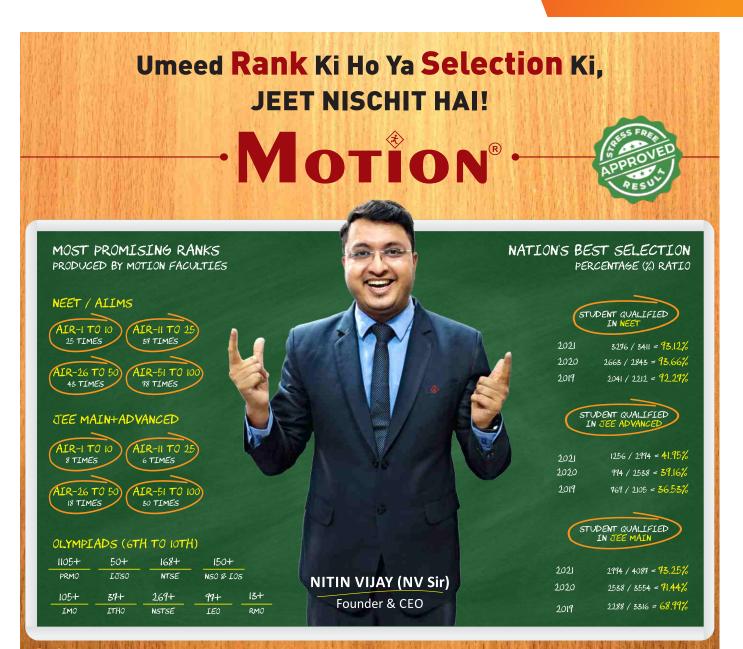
 मोशन प्रयास में कौन–कौन सी कक्षा का प्रस्ताव दिया जा रहा है?

मोशन प्रयास में कक्षा 11वी अथवा 12वी साइंस के विद्यार्थियों को मेडिकल अथवा इंजीनियरिंग प्रवेश के साथ साथ बोर्ड परीक्षा एवं 12वी पास विद्यार्थियों को पूरी तरह से मेडिकल अथवा इंजीनियरिंग प्रवेश परीक्षा की तैयारी करवाई जायेगी।



सिर्फ कोचिंग ₹ 75,000[°] ब्याज रहित आसान मासिक किश्तो की सुविधा उपलब्ध।

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Dear Students, Which one would you choose a rank or just the selection? If you take my advice don't pressurize yourself, just concentrate on your studies and continue working hard. Once a student starts preparing for NEET/JEE exam, their entire focus must be on systematic preparation for the selection. At Motion Education, we ensure to cater to every student's need, our teachers impart lessons after understanding the psychology of students and help them in attaining stress-free results. Through our Classroom program aided with technology, we facilitate a highly advanced nurturing platform & believe in Customising studying techniques helping students in strengthening their concepts and making their exam preparations more effective. NITIN VIJAY (NV Sir) Founder & CEO

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531-550	40,042			
511-530	45,762			
491-510	51,483			
471-490	57,203			
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