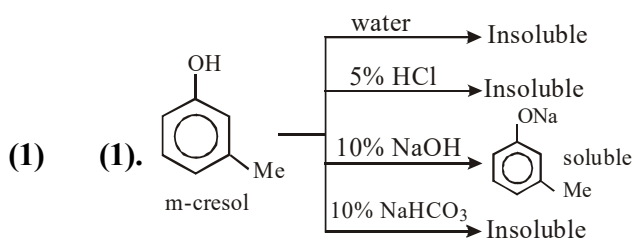


NEET 2020

FULL TEST-2 SOLUTIONS

STANDARD ANSWER KEY											
Q	1	2	3	4	5	6	7	8	9	10	11
A	1	3	3	3	3	3	4	4	4	1	4
Q	12	13	14	15	16	17	18	19	20	21	22
A	3	1	2	2	2	2	2	1	4	3	3
Q	23	24	25	26	27	28	29	30	31	32	33
A	2	2	1	3	4	2	1	1	3	1	4
Q	34	35	36	37	38	39	40	41	42	43	44
A	3	1	3	3	1	1	4	4	2	1	3
Q	45	46	47	48	49	50	51	52	53	54	55
A	2	3	1	4	4	2	1	2	4	1	4
Q	56	57	58	59	60	61	62	63	64	65	66
A	4	4	2	3	2	3	2	4	3	4	4
Q	67	68	69	70	71	72	73	74	75	76	77
A	3	4	1	3	3	1	4	4	2	4	1
Q	78	79	80	81	82	83	84	85	86	87	88
A	1	2	4	2	2	1	2	1	3	3	3
Q	89	90	91	92	93	94	95	96	97	98	99
A	3	4	1	2	4	4	3	2	1	4	1
Q	100	101	102	103	104	105	106	107	108	109	110
A	3	1	2	1	2	3	3	1	2	4	2
Q	111	112	113	114	115	116	117	118	119	120	121
A	4	2	2	3	1	2	3	2	4	2	2
Q	122	123	124	125	126	127	128	129	130	131	132
A	2	2	4	4	4	4	4	2	2	1	1
Q	133	134	135	136	137	138	139	140	141	142	143
A	3	1	3	1	2	4	2	4	1	3	3
Q	144	145	146	147	148	149	150	151	152	153	154
A	1	3	2	2	4	3	2	3	1	4	3
Q	155	156	157	158	159	160	161	162	163	164	165
A	1	1	2	3	1	3	3	3	3	1	2
Q	166	167	168	169	170	171	172	173	174	175	176
A	2	3	2	3	4	3	3	2	3	2	1
Q	177	178	179	180							
A	1	4	1	3							



- * Oleic acid is also soluble in NaHCO_3 .
- * o-toluidine is not soluble in NaOH as well as NaHCO_3 .
- * Benzamide is also not soluble in NaOH & NaHCO_3 .

(2) (3). $r = K [A]^x [B]^y$

$$0.045 = K (0.05)^x (0.05)^y \quad \dots(1)$$

$$0.090 = K (0.10)^x (0.05)^y \quad \dots(2)$$

$$0.72 = K (0.20)^x (0.10)^y \quad \dots(3)$$

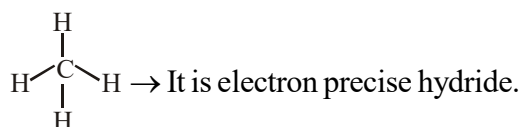
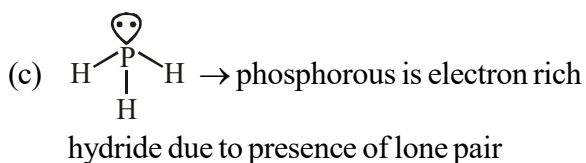
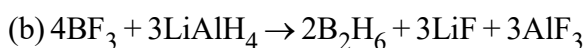
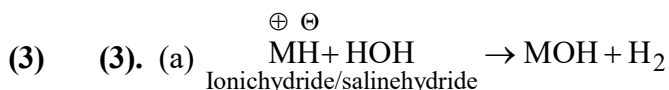
From (1) \div (2),

$$\frac{0.045}{0.090} = \left(\frac{0.05}{0.10}\right)^x \Rightarrow x = 1$$

From (2) \div (3),

$$\frac{0.090}{0.720} = \left(\frac{0.10}{0.20}\right)^x \cdot \left(\frac{0.05}{0.10}\right)^y \Rightarrow y = 2$$

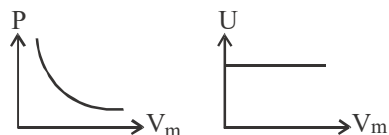
Hence, $r = K [A] [B]^2$



(d) HF & CH_4 are molecular hydride due to they are covalent molecules.

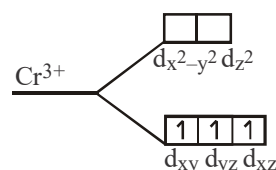
(4) (3). Isothermal expansion $PV_m = K$ (Graph-c)

$$P = \frac{K}{V_m} \quad \text{(Graph-a)}$$



(5) (3). All halides of Be are predominantly covalent in nature.

(6) (3). Degenerate orbitals of $[\text{Cr}(\text{H}_2\text{O})_6]^{3+}$



Hence according to the options given, degenerate orbitals are d_{xz} & d_{yz} .

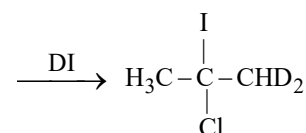
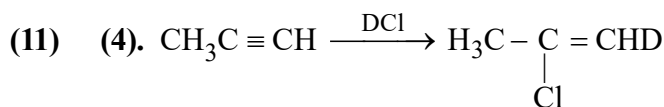
(7) (4). Ellingham diagram helps in predicting the feasibility of thermal reduction of ores.

(8) (4). $Z_B = 4, Z_A = 4 \times \frac{1}{2} = 2, Z_O = 8$

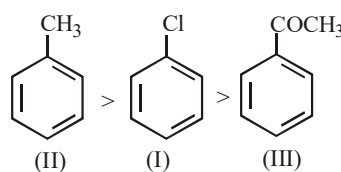
Formula ; $A_2B_2O_8 \equiv AB_2O_4$

(9) (4). E.N. of Al = (1.5) \cong Be (1.5)

(10) (1). Photochemical smog occurs in warm (sunlight) and has high concentration of oxidising agent therefore it is called photochemical smog/oxidising smog.

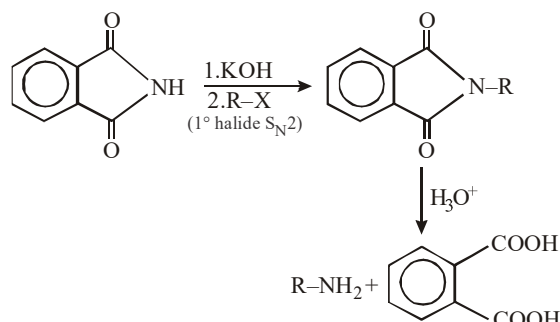


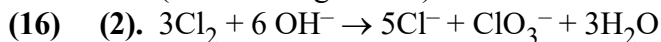
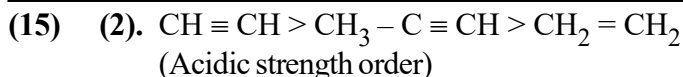
(12) (3). Rate of aromatic electrophilic substitution is



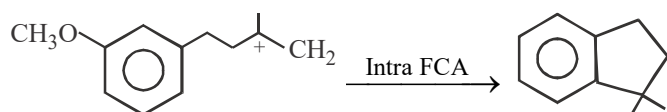
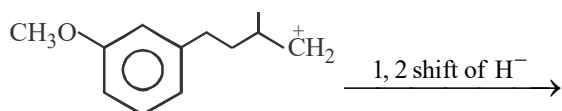
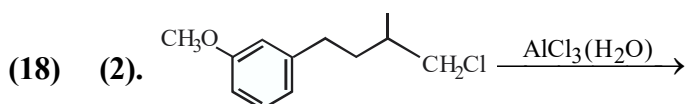
(13) (1). BeCl_2 exist as $(\text{BeCl}_2)_n$ polymeric chain in solid form, while BeCl_2 exist as dimer $(\text{BeCl}_2)_2$ in vapour phase.

(14) (2). Gabriel phthalimide synthesis :

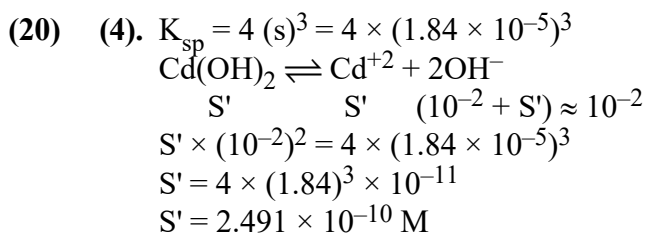
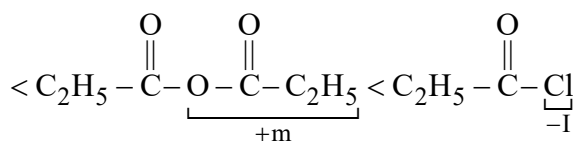
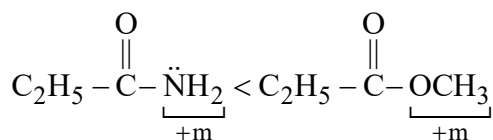




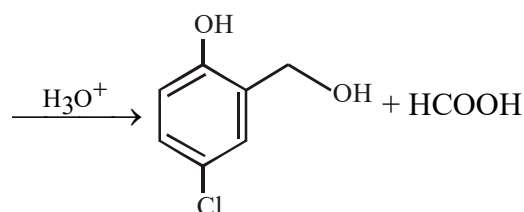
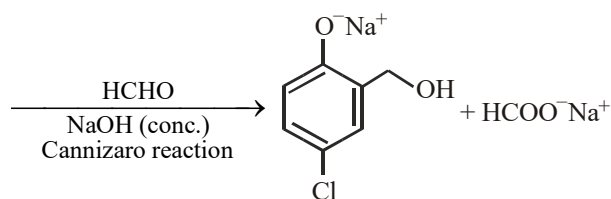
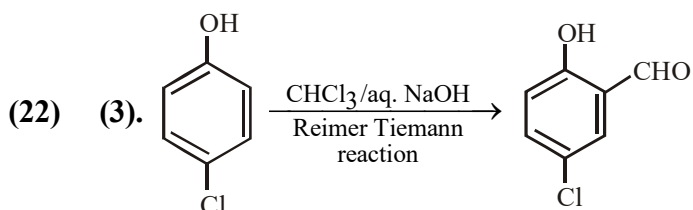
(17) (2). Generally interstitial compounds are chemically inert.



(19) (1). Rate of nucleophilic attack on carbonyl \propto Electrophilicity of carbonyl group



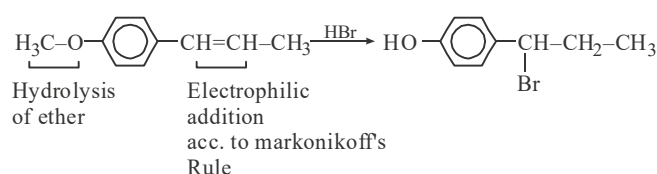
(21) (3). In diamond C-C bond have only σ bond character while in case of graphite and fullerene (C60 and C70) C-C bond contain double bond character. That's why diamond having maximum C-C bond length.



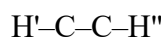
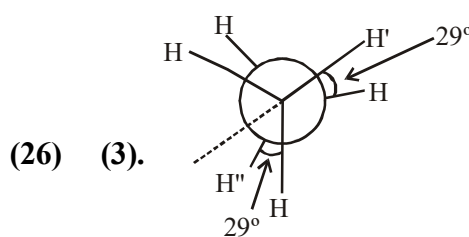
(23) (2). Work done on isothermal irreversible for ideal gas $= -P_{\text{ext}}(V_2 - V_1)$
 $= -4 \text{ N/m}^2 (1\text{m}^3 - 5\text{m}^3) = 16 \text{ Nm}$
 Isothermal process for ideal gas $\Delta U = 0$
 $q = -w = -16 \text{ Nm} = -16 \text{ J}$
 Heat used to increase temperature of Al
 $q = n C_m \Delta T$

$$16 \text{ J} = 1 \times 24 \frac{\text{J}}{\text{mol} \cdot \text{K}} \times \Delta T \quad ; \quad \Delta T = \frac{2}{3} \text{ K}$$

(24) (2).



(25) (1). $\Delta G^\circ = -nF E^\circ_{\text{cell}}$
 $= -2 \times 96000 \times 2 = -384000 \text{ J} = -384 \text{ kJ}$



Hence angle between $\text{H}'-\text{C}-\text{C}-\text{H}''$ is $(120^\circ + 29^\circ) = 149^\circ$.

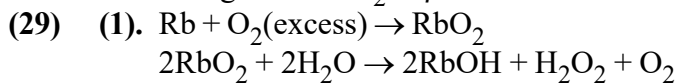
(27) (4). O_2 , NO , B_2 are paramagnetic according to M.O.T. where as CO is diamagnetic.

(28) (2). Sucrose $\xrightarrow{\text{H}_2\text{O}}$ α -D-glucose

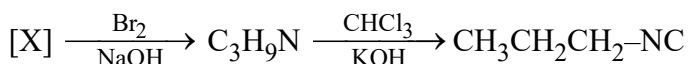
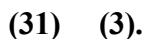
+ β -D-fructose

Also named as invert sugar & it is a example of non-reducing sugar.

The glycosidic linkage is present between C₁ of α-glucose & C₂ of β-fructose.



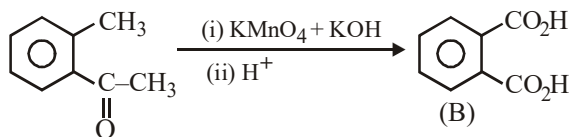
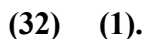
$$T = \frac{\Delta H}{\Delta S} = \frac{200}{40} = 5\text{K}$$



Hoffmann's
Bromamide
degradation
Carbylamine
Reaction

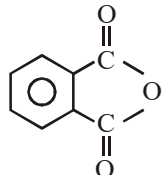
Thus [X] must be amide with one carbon more than is amine.

Thus [X] is CH₃CH₂CH₂CONH₂.



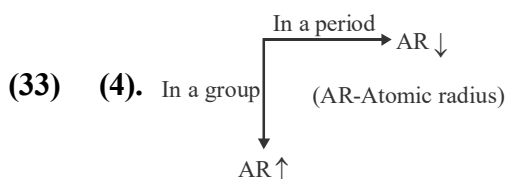
+ve iodoform test

(C₈H₆O₄) Phthalic acid



is used for preparation of phenolphthalein indicator

Phthalic anhydride



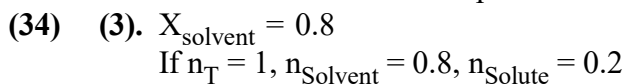
Atomic radii order : C < S < Al < Cs

Atomic radius of C : 170 pm

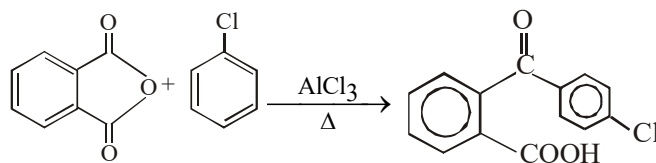
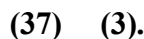
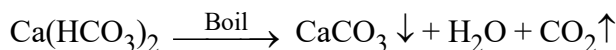
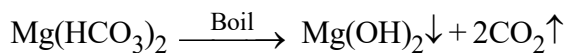
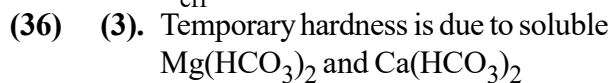
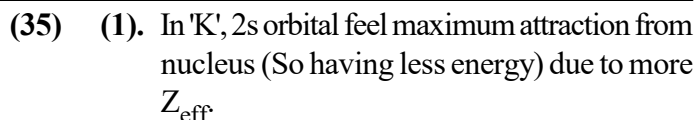
Atomic radius of S : 180 pm

Atomic radius of Al : 184 pm

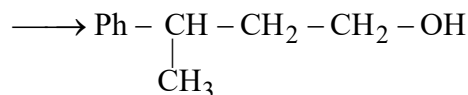
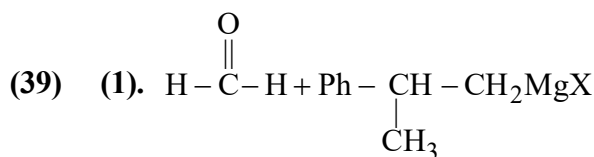
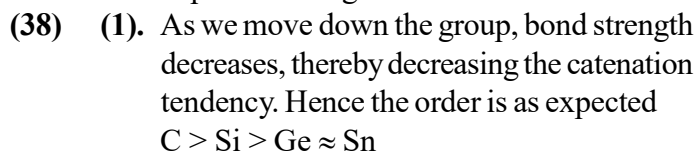
Atomic radius of Cs : 300 pm



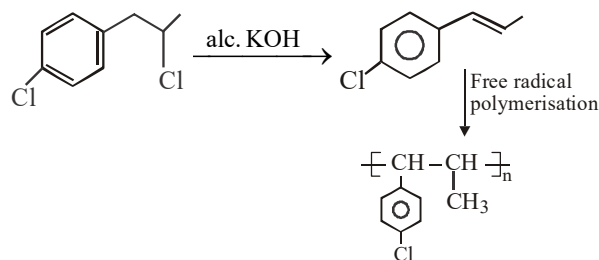
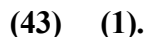
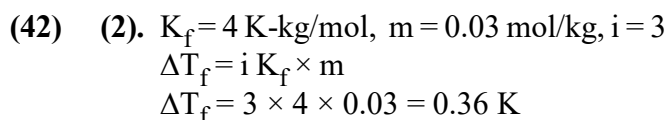
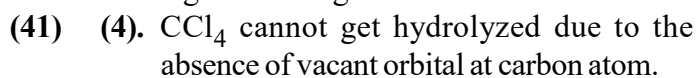
$$\text{Molality} = \frac{0.2}{\frac{0.8 \times 18}{1000}} = 13.88$$



Friedel-craft acylation. -Cl group is an ortho & para directing.



Ag-sol → negative sol



(44) (3). HF has highest boiling point among hydrogen halides because it has strongest hydrogen bonding.

(45) (2). Nylon-6,6 is a condensation polymer of hexamethylene diamine and adipic acid. Buna-S, Teflon and Neoprene are addition polymer.

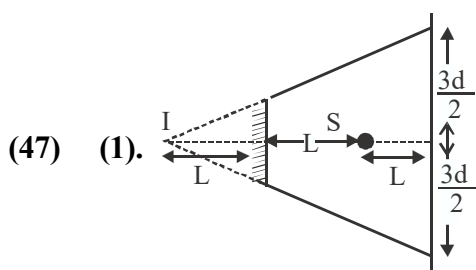
(46) (3). At $t = 0$, $A_0 = \frac{dN}{dt} = 1600 \text{ C/s}$

At $t = 8\text{s}$, $A = 100 \text{ C/s}$

$$\frac{A}{A_0} = \frac{1}{16} \text{ in } 8 \text{ sec}$$

Therefore half life is $t_{1/2} = 2 \text{ sec}$

\therefore Activity at $t = 6$ will be $1600 (1/2)^3 = 200 \text{ C/s}$



(48) (4). $M = \mu_0 n_1 n_2 \pi r_1^2$

$$L = \mu_0 n_1^2 \pi r_1^2 \Rightarrow \frac{M}{L} = \frac{n_2}{n_1}$$

(49) (4). $3 \left(\frac{v}{2\ell} \right) = 240$; $3 \frac{v}{2 \times 2} = 240$

$$v = 320 \text{ m/s}$$

$$\text{Fundamental frequency} = \frac{v}{2\ell} = \frac{320}{2 \times 2} = 80 \text{ Hz}$$

(50) (2). $\frac{1}{2} \left(m + \frac{I}{R^2} \right) v^2 = mgh$

If radius of gyration is k , then

$$h = \frac{\left(1 + \frac{k^2}{R^2} \right) v^2}{2g} ; \frac{k_{\text{ring}}}{R_{\text{ring}}} = 1$$

$$\frac{k_{\text{solid cylinder}}}{R_{\text{solid cylinder}}} = \frac{1}{\sqrt{2}}$$

$$\frac{k_{\text{solid cylinder}}}{R_{\text{solid cylinder}}} = \sqrt{\frac{2}{5}}$$

$$h_1 : h_2 : h_3 :: (1+1) : \left(1 + \frac{1}{2} \right) : \left(1 + \frac{2}{5} \right) \\ :: 20 : 15 : 14$$

(51) (1). $K_{\text{max}} = \frac{hc}{\lambda} - \frac{hc}{\lambda_0} = hc \left(\frac{\lambda_0 - \lambda}{\lambda \lambda_0} \right)$

$$= 1237 \left(\frac{380 - 260}{380 \times 260} \right) = 1.5 \text{ eV}$$

(52) (2). $\frac{F}{A} = y \frac{\Delta \ell}{\ell}$

$$\Delta \ell \propto F \quad \dots (i)$$

$$T = mg$$

$$T = mg - f_B$$

$$= mg - \frac{m}{\rho_b} \cdot \rho_\ell \cdot g$$

$$= \left(1 - \frac{\rho_\ell}{\rho_b} \right) mg = \left(1 - \frac{2}{8} \right) mg$$

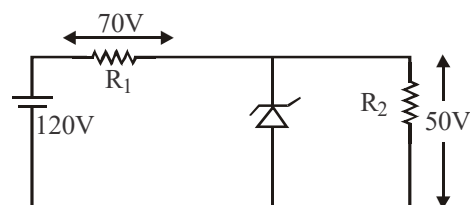
$$T' = \frac{3}{4} mg. \quad \text{From (i), } \frac{\Delta \ell'}{\Delta \ell} = \frac{T'}{T} = \frac{3}{4}$$

$$\Delta \ell' = \frac{3}{4} \Delta \ell = 3 \text{ mm}$$

(53) (4). Assuming zener diode does not undergo

$$\text{breakdown, current in circuit} = \frac{120}{15000} \\ = 8 \text{ mA}$$

\therefore Voltage drop across diode = $80 \text{ V} > 50 \text{ V}$.
The diode undergo breakdown.



$$\text{Current in } R_1 = \frac{70}{5000} = 14 \text{ mA}$$

Current is $R_2 = \frac{50}{10000} = 5 \text{ mA}$

∴ Current through diode = 9mA

(54) (1). For a diatomic gas, $C_p = \frac{7}{2}R$

Since gas undergoes isobaric process

$\Delta Q = nC_p \Delta T$

Also, $\Delta W = nR \Delta T = 10 \text{ J}$ (given)

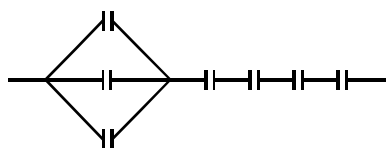
∴ $\Delta Q = n \frac{7}{2} R \Delta T = \frac{7}{2} (nR \Delta T) = 35 \text{ J}$

(55) (4). $F = \frac{dV}{dr} = kr = \frac{mv^2}{r}$

$mvr = \frac{nh}{2\pi}$; $r^2 \propto n$; $r^2 \propto \sqrt{n}$

$E = \frac{1}{2}kr^2 + \frac{1}{2}mv^2 \propto r^2 \propto n$

(56) (4). $C_{eq} = \frac{6}{13} \mu F$



Therefore three capacitors must be in parallel

to get 6 in $\frac{1}{C_{eq}} = \frac{1}{3C} + \frac{1}{C} + \frac{1}{C} + \frac{1}{C} + \frac{1}{C}$

$C_{eq} = \frac{3C}{13} = \frac{6}{13} \mu F$

(57) (4). For A : $R = C_p - C_v = 7$

$C_v = \frac{fR}{2} = 22 \Rightarrow f = \frac{44}{7} = 6.3$

$f \approx 6 \rightarrow \begin{cases} 5 \text{ (Rotation + Translational)} \\ 1 \text{ (Vibration)} \end{cases}$

For B : $R = C_p - C_v = 9$

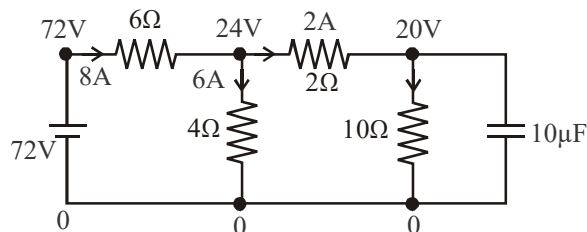
$C_v = \frac{fR}{2} = 21 \Rightarrow f = \frac{42}{9}$

$f \approx 5 \rightarrow \begin{cases} 5 \text{ (Rotation + Translational)} \\ 0 \text{ (Vibration)} \end{cases}$

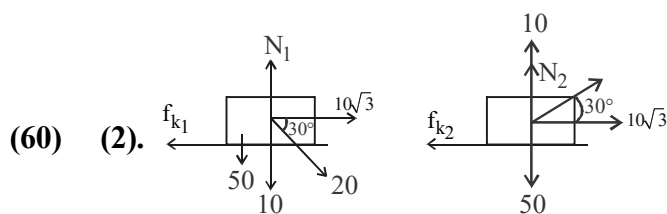
(58) (2). $S = \text{Area under graph}$

$\frac{1}{2} \times 2 \times 2 + 2 \times 2 + 3 \times 1 = 9 \text{ m}$

(59) (3). Applying point potential method



$q = cV = 10\mu F \times 20 = 200 \mu C$



(60) (2).

$N_1 = 60, N_2 = 40$

$a_1 = \frac{10\sqrt{3} - 0.2 \times 60}{5}$

$a_2 = \frac{10\sqrt{3} - 0.2 \times 40}{5}$

$a_1 - a_2 = 0.8$

(61) (3). Height of liquid rise in capillary tube

$h = \frac{2T \cos \theta_c}{\rho r g} \Rightarrow h \propto \frac{1}{r}$

When radius becomes double height become half $h' = h/2$

Now, $M = \pi r^2 h \times \rho$

and $M' = \pi (2r)^2 (h/2) \times \rho = 2M$

(62) (2). $\frac{F}{A} = y \cdot \frac{\Delta \ell}{\ell}$; $[Y] = \frac{F}{A}$

Now from dimension,

$F = \frac{ML}{T^2}$; $L = \frac{F}{M} \cdot T^2$

$L^2 = \frac{F^2}{M^2} \left(\frac{V}{A}\right)^4 \therefore T = \frac{V}{A}$

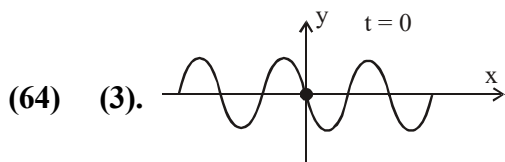
$L^2 = \frac{F^2}{M^2 A^2} \frac{V^4}{A^2}$; $[F = MA]$

$$L^2 = \frac{V^4}{A^2}; [Y] = \frac{[F]}{[A]} = F^1 V^{-4} A^2$$

$$(63) \quad (4). \quad \frac{GM}{(R+h)^2} = \frac{GM}{2R^2}$$

$$R+h = \sqrt{2} R$$

$$h = (\sqrt{2} - 1) R = 2.6 \times 10^6 \text{ m}$$



$$y = A \sin(kx - \omega t + \phi)$$

At $x=0, t=0, y=0$ and slope is negative

$$\Rightarrow \phi = \pi$$

$$(65) \quad (4). \quad R = \frac{u^2 \sin 2\theta}{g}$$

$$A = \pi R^2; A \propto R^2; A \propto u^4$$

$$\frac{A_1}{A_2} = \frac{u_1^4}{u_2^4} = \left[\frac{1}{2}\right]^4 = \frac{1}{16}$$

(66) (4). Applying angular momentum conservation, about axis of rotation, $L_i = L_f$

$$\frac{ML^2}{12} \omega_0 = \left(\frac{ML^2}{12} + m \left(\frac{L}{2} \right)^2 \times 2 \right) \omega$$

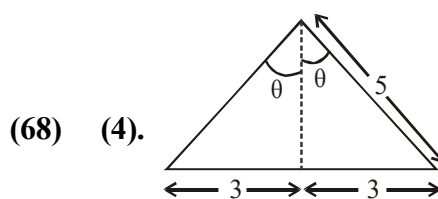
$$\omega = \frac{M\omega_0}{M+6m}$$

$$(67) \quad (3). \quad V_{\text{gain}} = \left(\frac{\Delta I_C}{\Delta I_b} \right) \frac{R_{\text{out}}}{R_{\text{in}}} = \left(\frac{5 \times 10^{-3}}{100 \times 10^{-6}} \right) \times 10^3$$

$$= \frac{1}{20} \times 10^6 = 5 \times 10^4$$

$$P_{\text{gain}} = \left(\frac{\Delta I_C}{\Delta I_b} \right) (V_{\text{gain}})$$

$$= \left(\frac{5 \times 10^{-3}}{100 \times 10^{-6}} \right) (5 \times 10^4) = 2.5 \times 10^6$$



$$B = \frac{\mu_0 I}{4\pi d} 2 \sin \theta; d = 4 \text{ cm}$$

$$\sin \theta = 3/5$$

(69) (1). Limit of resolution of telescope = $\frac{1.22 \lambda}{D}$

$$\theta = \frac{1.22 \times 500 \times 10^{-9}}{200 \times 10^{-2}} = 305 \times 10^{-9} \text{ radian}$$

(70) (3). Since P-V indicator diagram is given, so work done by gas is area under the cyclic diagram.

$$\therefore \Delta W = \text{Work done by gas} = \frac{1}{2} \times 4 \times 5 \text{ J} = 10 \text{ J}$$

(71) (3). From lens equation, $\frac{1}{v} - \frac{1}{u} = \frac{1}{f}$

$$\frac{1}{v} - \frac{1}{(-20)} = \frac{1}{(0.3)} = \frac{10}{3}$$

$$\frac{1}{v} = \frac{10}{3} - \frac{1}{20}; \frac{1}{v} = \frac{197}{60}; v = \frac{60}{197}$$

$$m = \frac{v}{u} = \frac{60/197}{20}$$

Velocity of image wrt. to lens is given by

$$v_{I/L} = m^2 v_{O/L}$$

Direction of velocity of image is same as that of object $v_{O/L} = 5 \text{ m/s}$

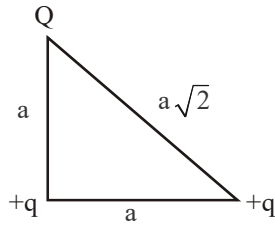
$$v_{I/L} = \left(\frac{60 \times 1}{197 \times 20} \right)^2 (5)$$

$$= 1.16 \times 10^{-3} \text{ m/s towards the lens.}$$

(72) (1). $U = K \left[\frac{q^2}{a} + \frac{Qq}{a} + \frac{Qq}{a\sqrt{2}} \right] = 0$

$\Rightarrow q = -Q \left[1 + \frac{1}{\sqrt{2}} \right]$

$\Rightarrow Q = \frac{-q\sqrt{2}}{\sqrt{2} + 1}$



(73) (4). $v = \omega \sqrt{A^2 - x^2}$ (1)

$a = -\omega^2 x$ (2)

$|v| = |a|$ (3)

$\omega \sqrt{A^2 - x^2} = \omega^2 x$

$A^2 - x^2 = \omega^2 x^2$

$5^2 - 4^2 = \omega^2 (4^2) \Rightarrow 3 = \omega \times 4$

$T = 2\pi / \omega$

(74) (4). Path difference at central maxima
 $\Delta x = (\mu - 1)t$, whole pattern will shift by same amount which will be given by

$(\mu - 1)t \frac{D}{d} = n \frac{\lambda D}{d}$

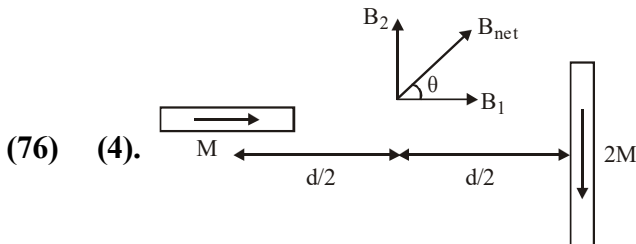
According to the question, $t = \frac{n\lambda}{(\mu - 1)}$

(75) (2). $Q = P \times t$
 $Q = mc \Delta T + mL$

$P = \frac{V_{rms}^2}{R}$

$4200 \times 80 + 2260 \times 10^3 = \frac{(200)^2}{20} \times t$

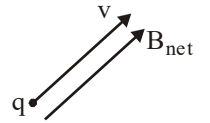
$t = 1298 \text{ sec} ; t = 22 \text{ min}$



$B_1 = 2 \left(\frac{\mu_0}{4\pi} \right) \frac{M}{(d/2)^3}$

$B_2 = \left(\frac{\mu_0}{4\pi} \right) \frac{2M}{(d/2)^3}$

$B_1 = B_2$
 B_{net} is at 45° ($\theta = 45^\circ$)



Velocity of charge and B_{net} are parallel so by
 $\vec{F} = q(\vec{v} \times \vec{B})$ force on charge particle is zero.

(77) (1). By conservation of Energy,

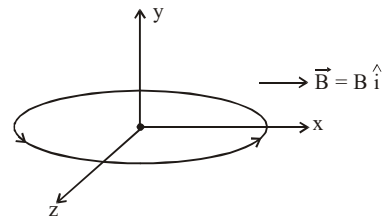
$-\frac{GMm}{R} + E = -\frac{GMm}{3R} + \frac{1}{2}mv_0^2$

$E = -\frac{GMm}{3R} + \frac{1}{2}m \left(\frac{GM}{3R} \right) + \frac{GMm}{R}$

$E = -\frac{GMm}{3R} + \frac{GMm}{6R} + \frac{GMm}{R}$

$\therefore E = \frac{5GMm}{6R}$

(78) (1).



Magnetic moment of coil = $NIA \hat{j}$

= $NI(\pi r^2) \hat{j}$

Torque on loop (coil) = $\vec{M} \times \vec{B}$

= $NI(\pi r^2) B \sin 90^\circ (-\hat{k}) = NI\pi r^2 B (-\hat{k})$

(79) (2). K.E. acquired by charge = $K = qV$

$\lambda = \frac{h}{p} = \frac{h}{\sqrt{2mK}} = \frac{h}{\sqrt{2mqV}}$

$\therefore \frac{\lambda_A}{\lambda_B} = \frac{\sqrt{2m_B q_B V_B}}{\sqrt{2m_A q_A V_A}} = \sqrt{\frac{2mq \times 2500}{mq \times 50}}$

= $2\sqrt{50} = 2 \times 7.07 = 14.14$

(80) (4). $\frac{P}{Q} = \frac{R}{S}$

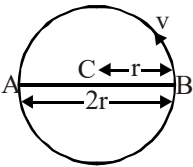
Since P and Q is constant $\frac{P}{Q}$ will be constant

$\therefore \frac{R}{S} = \text{Constant}$

$\frac{R}{S} = \frac{5}{S} = \frac{7}{S+3} \Rightarrow 5(S+3) = 7S$

or $15 = 2S \therefore S = 7.5 \Omega$

(81) (2). $\omega_A = \frac{v}{2r}, \omega_C = \frac{v}{r}$
 $\therefore \frac{\omega_A}{\omega_C} = \frac{1}{2}$



(82) (2). $W = \frac{1}{2}kx^2 \Rightarrow W \propto k \Rightarrow \frac{W_2}{W_1} = \frac{k_2}{k_1} = 2$

$\Rightarrow W_2 = 2W_1$

(83) (1). Mass should be conserved

$238 = 206 + 4x + 0$

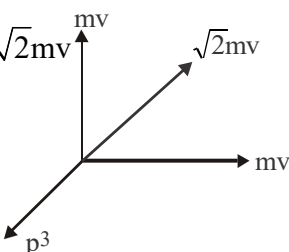
$x = 32/4 = 8$

(84) (2). $v = g(\sin \theta - \mu \cos \theta) t$

$= 10 \left[\frac{1}{2} - (0.2) \frac{\sqrt{3}}{2} \right] 5 = 16.34 \text{ m/s}$

(85) (1). Angular spread of central maxima is $\theta = 2\lambda/a$.

(86) (3). $p_3 = \sqrt{p_1^2 + p_2^2} = \sqrt{2}mv$
 $2mv_3 = \sqrt{2}mv$
 $v_3 = \frac{v}{\sqrt{2}}$



$KE_f = \frac{1}{2}mv^2 + \frac{1}{2}mv^2 + \frac{1}{2}(2m) \left(\frac{v}{\sqrt{2}} \right)^2$
 $= \frac{3}{2}mv^2$

(87) (3). $n \propto \frac{1}{\ell} \Rightarrow \frac{\Delta n}{n} = -\frac{\Delta \ell}{\ell}$

If length is decreased by 2% then frequency

increases by 2%, i.e., $\frac{n_2 - n_1}{n_1} = \frac{2}{100}$

$n_2 - n_1 = \frac{2}{100} \times n_1 = \frac{2}{100} \times 392 = 7.8 \approx 8$

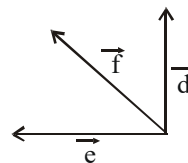
(88) (3). $\eta = 25\%$

$\eta = \frac{T_1 - T_2}{T_1} \times 100\%$

$\frac{80}{T_1} \times 100 = 25 \Rightarrow T_1 = 320 \text{ K}$

$\therefore T_2 = 320 - 80 = 240 \text{ K} = -33^\circ\text{C}$

(89) (3). From figure, $\vec{d} + \vec{e} = \vec{f}$



(90) (4). Induced emf,

$E = \frac{-d\phi}{dt} = \frac{-d}{dt}(BA) = -A \frac{dB}{dt}$

$= -\pi r^2 B_0 \frac{d}{dt}(e^{-t}) = -\pi r^2 B_0 e^{-t}$

At $t = 0, E_0 = B_0 \pi r^2$

The electric power developed in the resistor R just at the instant of closing the key is :

$P = \frac{E_0^2}{R} = \frac{B_0^2 \pi^2 r^4}{R}$

(91) (1) (92) (2) (93) (4)

(94) (4) (95) (3) (96) (2)

(97) (1) (98) (4) (99) (1)

(100) (3) (101) (1) (102) (2)

(103) (1) (104) (2) (105) (3)

(106) (3) (107) (1) (108) (2)

(109) (4) (110) (2) (111) (4)

(112) (2) (113) (2)

(114) (3). ACTH act on adrenal cortex

Prolactin act on mammary glands

TSH act on Thyroid gland.

(115) (1) (116) (2) (117) (3)

(118) (2) (119) (4) (120) (2)

(121) (2) (122) (2) (123) (2)

(124) (4)	(125) (4)	(126) (4)
(127) (4)	(128) (4)	(129) (2)
(130) (2)	(131) (1)	(132) (1)
(133) (3)	(134) (1)	(135) (3)
(136) (1)	(137) (2)	(138) (4)
(139) (2)	(140) (4)	(141) (1)
(142) (3)	(143) (3)	(144) (1)
(145) (3)	(146) (2)	(147) (2)
(148) (4)	(149) (3)	(150) (2)
(151) (3)	(152) (1)	(153) (4)
(154) (3)	(155) (1)	(156) (1)
(157) (2)	(158) (3)	(159) (1)
(160) (3)	(161) (3)	(162) (3)
(163) (3)	(164) (1)	(165) (2)
(166) (2)	(167) (3)	(168) (2)
(169) (3)	(170) (4)	(171) (3)
(172) (3)	(173) (2)	(174) (3)
(175) (2)	(176) (1)	(177) (1)
(178) (4)	(179) (1)	(180) (3)