

Find O.F. of & & B

$$0 = \frac{\alpha t}{\beta}$$





$$U = \sqrt{\frac{YKT}{m}}$$

$$b = \frac{ma}{K} \sqrt{1 + \frac{2KR}{ma}}$$

DF of 6 will be ?

- 1 LT-1
- 2 LT-2
- 3 (
 - (4) Cannot be find

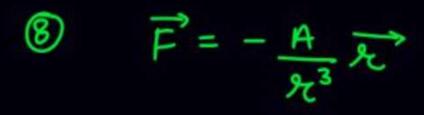
oc -> distance > Displacement



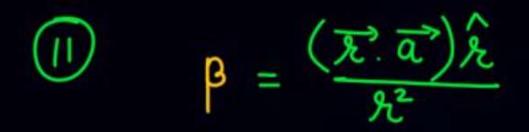
$$7)$$
 $y = 2A \sin(\frac{2\pi ct}{\lambda})\cos(\frac{2\pi x}{\lambda})$

Find DF of Ct and CX











(2) If
$$\alpha = \frac{1}{2\pi} \sqrt{\frac{P_0 A^2 V}{M V_0}}$$



when

(3)
$$F = \alpha x^2 + \beta \sqrt{t}$$
find DF of $\frac{\beta^2}{\alpha}$

$$\frac{14}{d} = \sqrt{\frac{hc^5}{G}}$$

Find D.F of &



C→speed of light h → plank const G → Univ. grav. const

(15)
$$x = \frac{F}{B} \sin(ct^2)$$

Find D.F of A.B



$$F = \frac{\lambda}{\beta + J_{\beta}}$$

Find DF of & &B

$$P = \alpha \log \left(\frac{\beta}{x^2} + rt^2 \right)$$





Discussion



KPP-11

Find O.F. of & & B

$$0 = \frac{\alpha}{\beta} e^{-\frac{\alpha t}{K}}$$

$$\frac{\alpha'}{\beta} \equiv \omega P$$

$$\beta = \frac{\alpha}{(\omega_0)} = \frac{m_1^2 T_3^{-1}}{m_1^2 T_2^{-1}} = T_{-1}^{-1}$$

KO __ Dinerinkus

501



$$C = \frac{3}{2} KT$$



$$\frac{a}{K} = \frac{L^{-1}}{ml^2T^2} = m^{-1}L^{-3} + 2$$

$$K = \frac{mv^2}{YT} \Rightarrow \frac{Kg m^2}{Sec^2.K}$$

$$b = \frac{ma}{K} \sqrt{1 + \frac{2kl}{ma}}$$

SOL

> Displaument



$$Ct \Rightarrow L$$

$$C = LT^{-1}$$

$$X = L$$





$$\leq \delta \tilde{l}$$
 $\alpha = \frac{L L T^{-2} \times 1}{l^2}$



$$\beta = \frac{(\vec{x}.\vec{a})\hat{k}}{\hat{k}^2}$$





(2) If
$$\alpha = \frac{1}{2\pi} \sqrt{\frac{P_0 A^2 V}{M V_0}}$$

SOI AT > L2.T = mol2T1 = mol2T3



when

Vo - Volume

A --- Cross sochim Area

Y ____ Dimensionless

m - mass

If D.F. of AT is mx b T3 Where T is time then find.

$$x=0, y=2, z=1$$

 $x=0+2+1=3$

Actual Ques is on next page

(2) If
$$\alpha = \frac{1}{2\pi} \sqrt{\frac{P_0 A^2 V}{M V_0}}$$

By

Where T is time then find.

(13)
$$F = \alpha x^2 + \beta \sqrt{t}$$
find D.F of $\frac{\beta^2}{\alpha}$

$$MLT^2 = \chi L^2$$

$$\chi = ML^{-1}T^{-2}$$

$$\frac{\beta^2}{\alpha} \Rightarrow \frac{m^2 L^2 T^5}{m L^1 T^{-2}} = m L^3 T^{-3}$$

$$\frac{14}{d} = \sqrt{\frac{hc^5}{G}}$$

Find D.F of &

$$\frac{Sol^{n}}{\propto \Rightarrow \sqrt{\frac{mL^{2}T^{-1} \cdot L^{5}T^{-5}}{m^{-1}L^{3}T^{-2}}}$$

$$=\sqrt{m^2.L^4-4}$$



C → speed of light h - plank const G - Univ. grav. Const ha mit C = LT @=) W-1 5-5

(3)
$$F = \alpha x^2 + \beta \sqrt{t}$$
find DF of $\frac{\beta^2}{\alpha}$

$$\frac{14}{d} = \sqrt{\frac{hc^5}{G}}$$

Find D.F of &

$$\frac{m^{-2}}{F|_{x^2}} = \frac{F^{\frac{1}{2}} \times 1}{F|_{x^2}} = \frac{F^{\frac{1}{2}} \times 1}{F|_{x^2}}$$

$$= \frac{F \times 1}{F|_{x^2}} = \frac{F \times 1}{F|_{x^2}}$$

(15)
$$x = \frac{F}{B} \sin(ct^2)$$

Find D.F of 18 B.C.



$$F = \frac{\lambda}{\beta + \sqrt{\beta}}$$

Find DF of & &B

$$\beta = \left(\frac{m}{l^3}\right)^{\frac{1}{2}} = m^{\frac{1}{2}} - 3l^2 - 0$$

$$F = \frac{\alpha}{\sqrt{Density}} \Rightarrow \alpha = F \sqrt{Density}$$

$$\alpha = m \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$$

$$\alpha = m \cdot \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$$

$$P = \alpha \log \left(\frac{\beta}{x^2} + rt^2 \right)$$

$$Y = T^{-2}$$



$$\frac{\Delta\beta}{T} = \frac{m^2T^{-3}L^2}{T^{-2}}$$

$$= \left(M L^4 T^{-1} \right)$$



