I) formation of PDE's by eliminating consitroony Constants.

$$(x-a)^2 + (y-b)^2 + z^2 = c^2$$

Sol:

DIFF. PDE W.T.E. X, Y, Weget

2(スーa)+2モモュ=0 => Xーの=- モモx 2(4-6)+2774 =0=) 4-6=-77 JUBSHITUKING in the given PDE, we set

$$\frac{2^{2}}{2} = \frac{2^{2}}{2} + \frac{2^{2}}{2} = \frac{2^{2}}{2} + \frac{2^{2}}{2} = \frac{2^{2}}{2}$$

$$\Rightarrow \frac{2^{2}}{2} \left[\frac{1}{2} + \frac{2}{4} + \frac{7}{4} \right] = \frac{2^{2}}{2}$$

corre b= Ex and 9 = Zy.

$$2 = alog\left(\frac{b(y-1)}{1-x}\right)$$

Sol: Diff. PDE W.T.E. &, We get

$$b = a \left[\frac{1-x}{b(y-1)} \right] \left[\frac{b(y-1)}{(1-x)^2} \right]$$

$$\beta = \frac{\alpha}{1-\alpha} - (A)$$

Diff. PDE U.r.E. y, we set

$$Q_{1} = \alpha \left(\frac{1}{2} \times \frac{1}{2} \right) \left(\frac{1}{2} \times \frac{1}{2} \right)$$

$$9 = \frac{9}{4-1} - \frac{1}{8}$$

Elininalinga from (B) and (B), we sel-

This is the rept. PDE as it is free from a and b.