

Paper - VII
PDE and system of ODE

Short type

- ① Define order of partial differential equation (PDE) with examples
- ② solve $p^2 = uy$
- ③ write the Charpits auxiliary equation.

Long

- ④ solve by charpits method

$$p^2 + q^2 = p^2$$

- ⑤ write the Monge's method to solve PDE

$$Rr + Ss + Tt = v$$

- ⑥ Form a PDE by eliminating the arbitrary constant from

$$\frac{u^2}{a^2} + \frac{y^2}{b^2} + \frac{z^2}{c^2} = 1$$