## $(\mathbf{R16})$



## I B. Pharmacy I Semester Supplementary Examinations, May/June - 2019 REMEDIAL MATHEMATICS-I



- b) Find the equation of the locus of P if A = (2,3), B = (2,-3) and PA + PB = 8. (7M)
- 5. a) Using fundamental theorem find the derivative of cotx. (7M)
  - b) Find the derivate of  $\operatorname{Tan}^{-1}\left(\frac{x}{x}\right)$  (7M)

Code No: PHR16112

6. a) Evaluate 
$$\int (x+1)(x-2)^9 dx$$
 (7M)

b) Find the area of the curves bounded by y = x, y = 0 and x = 0, x = 1 (7M)

**R16** 

**SET -** 1

7. a) Solve the D.E 
$$\frac{dy}{dx} = \frac{x^2 + y^2}{2xy}$$
 (7M)

b) Form the differential equation corresponding to family of curves  $y^2 = 4ax$  (7M)

