

# MATHS-2B

TS-SENIOR MASTER

SUB: MATHS- IIB

IMPORTANT QUESTIONS-

2022-23

## I VERY SHORT QUESTIONS.

### QUESTION NO:1

1. Find the centre and radius of the circle  $x^2 + y^2 - 4x - 8y - 41 = 0$
2. If the centre of the circle  $x^2 + y^2 + ax + by - 12 = 0$  is (2,3), find the values of a, b and the radius of the circle
3. Find the value 'a' if  $2x^2 + ay^2 - 3x + 2y - 1 = 0$  represents a circle and also find its radius.
4. Find the value of k, if the points (4,2) and (k,-3) are conjugate with respect to the circle  $x^2 + y^2 - 5x + 8y + 6 = 0$
5. Obtain the parametric equation of the circle  $(x-3)^2 + (y-4)^2 = 8^2$

### QUESTION NO:2

1. If the length of a tangent from (5,4) to the circle  $x^2 + y^2 + 2ky = 0$  is '1', then find 'k'
2. Find the pole of  $ax + by + c = 0$  ( $c \neq 0$ ) with respect to  $x^2 + y^2 = r^2$
3. Find the other end of the diameter of the circle  $x^2 + y^2 - 8x - 8y + 27 = 0$ , if one end of it is (2,3).
4. Find the polar of (1, 2) with respect to  $x^2 + y^2 = 7$
5. Find the equation of the normal at P (3,5) of the circle  $S = x^2 + y^2 - 10x - 2y + 6$

### QUESTION NO:3

1. Find the equation of the common chord of the pair of circles  $x^2 + y^2 - 4x - 4y + 3 = 0$ ,  
 $x^2 + y^2 - 5x - 6y + 4 = 0$
2. Find the angle between the circles  $x^2 + y^2 - 12x - 6y + 41 = 0$  and  $x^2 + y^2 + 4x + 6y - 59 = 0$ .
3. Find the equation of radical axis of the circles  $x^2 + y^2 + 4x + 6y - 7 = 0$ ,  $4(x^2 + y^2) + 8x + 12y - 9 = 0$   
 $4(x^2 + y^2) + 8x + 12y - 9 = 0$
4. Show that the angle between the circles  $x^2 + y^2 = a^2$ ,  $x^2 + y^2 = ax + ay$  is  $\frac{3\pi}{4}$ .
5. If circles  $x^2 + y^2 - 5x - 14y - 34 = 0$ ,  $x^2 + y^2 + 2x + 4y + k = 0$  are orthogonal, then find k.

### QUESTION NO:4

1. Find the equation of the tangent to the parabola  $y^2 = 6x$  at the positive end of the latus rectum
2. Find the coordinates of the points on the parabola  $y^2 = 2x$  whose focal distance is  $\frac{5}{2}$
3. Find the equation of the parabola whose vertex is (3,-2) and the focus is (3, 1)
4. Find the co-ordinates of the point on the parabola  $y^2 = 8x$ , whose focal distance is 10 units.
5. If (1/2, 2) is one extremity of a focal chord of the parabola  $y^2 = 8x$  find the coordinates of the other extremity.

### QUESTION NO:5

1. If the angle between the asymptotes of a hyperbola is  $30^\circ$  then find its eccentricity.
2. If the eccentricity of a hyperbola is  $5/4$ , then find the eccentricity of its conjugate hyperbola.
3. If  $e, e_1$  are the eccentricities of a hyperbola and its conjugate hyperbola, prove that  $\frac{1}{e^2} + \frac{1}{e_1^2} = 1$ .
4. Find the eccentricity and length of latus rectum of the hyperbola  $16y^2 - 9x^2 = 144$

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**Michael Rajnik**



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