



**Syllabus: Cirles: Ex:1.1 to Ex:1:2, SAQ:5,6,7,8(10-07-2020 to 24-07-2020)**

## IPE MODEL :: MATHS-IIB

### SECTION-A

- I. VSAQ: Answer All the following questions. 2 x 5=10 M**
- Find the equation of a circle passing through (3,4) and having centre at (-3,4).
  - If  $x^2 + y^2 + 2gx + 2fy = 0$  is a circle with centre  $(-4, -3)$  find g,f and radius.
  - Find the power of the point (-1,1) with respect to the circle  $x^2 + y^2 - 6x + 4y - 12 = 0$ .
  - Find the value of k if the length of the tangent from the point (5,4) to the circle  $x^2 + y^2 + 2ky = 0$  is equal to 1.
  - Find the equation of normal at P of the circle S = 0 where P and S are given by P(3,5) and  $S = x^2 + y^2 - 10x - 2y + 6 = 0$ .

### SECTION-B

- II. SAQ: Answer any Four of the following questions. 4 x 4 = 16M**
- Find the equation of circle passing through the points  $(-2, 3), (4, 5)$  and whose centre lies on x-axis
  - Find the equation of tangent of  $x^2 + y^2 - 2x + 4y = 0$  at  $(3, -1)$ . Also find the equation of other parallel to it.
  - Find the equation of a circle passing through the points  $(4, 1), (6, 5)$  and having the centre on the line  $4x + y - 16 = 0$ .
  - Show the line  $x + y + 1 = 0$  touches the circle  $x^2 + y^2 - 3x + 7y + 14 = 0$  and find the point of contact.
  - Find the length of the chord intercepted by circle  $x^2 + y^2 - 8x - 2y - 8 = 0$  on the line  $x + y + 1 = 0$

### SECTION-C

- III. LAQ: Answer any two in the following questions. 2 x 7 = 14M**
- Find the value of c so that  $(2, 0), (0, 1), (4, 5), (0, c)$  are concyclic.
  - Find the equation of the circle passing through  $(3, 4), (3, 2), (1, 4)$ .
  - If a point P is moving such that the lengths of tangents drawn from p to  $x^2 + y^2 - 4x - 6y - 12 = 0$  and  $x^2 + y^2 + 6x + 18y + 26 = 0$  are in the ratio 2:3 than find the equation of the locus of P.



# SRIGAYATRI EDUCATIONAL INSTITUTIONS

INDIA

SR MEC

Time: 3:00 Hour

IPE WEEKEND

Date: 26-07-2020

Max. Marks:50

## IPE MODEL :: COMMERCE

**SYLLABUS: Insurance- definition, principles, functions, types; IRDA- powers and functions; Introduction to transport and transportation (10-07-2020 to 24-07-2020)**

### SECTION-A

**I. VSAQ: Answer ANY FIVE of the following questions. 5 x 2= 10 M**

1. Fire Insurance
2. Utmost Good Faiths
3. Whole Life Policy
4. Endowment Policy
5. Janata Policy
6. Marine Insurance
7. Transport
8. Time Policy

### SECTION-B

**II SAQ: Answer ANY FIVE of the following questions. 4 x 5 = 20 M**

11. What is Marine Insurance? Explain about: a) Fleet Policy and b) Valued Policy.
12. Explain about Annuity Policy and Sinking Policy.
13. Difference between Transport and Transportation?
14. Features of Insurance.
15. IRDA
16. Causa Proxima

### SECTION-C

**III LAQ: Answer ANY TWO of the following questions. 10 x 2 = 20 M**

17. Define Insurance? What are the Principles of Insurance?
18. Describe Life Insurance? Explain the different types of policies?
19. What is IRDA? Explain the powers and functions of IRDA?