



MATHS-IB

Syllabus: 2D-Coordinate system Ex:0.3,Ex:0.4, locus complete

SECTION-A

5 × 2 = 10M

I. Answer ALL the following questions

1. Find the centroid of the triangle formed by the points (2, 7), (3,-1), (-5, 6)
2. Show that the points (4,-2) , (2,-4), (7, 1) are collinear
3. Find the area of the triangle formed by the points (9,-7), (2, 4), (0, 0)
4. Find 'k' If (k,-1), (2, 1), (4, 5) are collinear.
5. Find the area of the quadrilateral formed by the points (1, 2), (2,-3), (-2, 4), (0, 5) taken in order.

SECTION-B

4 × 4 = 16M

II. Answer any FOUR of the following questions

6. If two vertices of a triangle are (4, 8) (-2, 6) and the centroid is (2, 7), then find the third vertex.
7. The centroid of $\triangle ABC$ is (2, 7). The points B, C lie on x, y axes respectively and A= (4, 8) Find B and C.
8. If the distances from P to the points (2,3),(2,-3) are in the ration 2:3 then find the locus of P.
9. A(1,2),B(2,-3),C(-2,3) are three points. A point P moves such that $PA^2 + PB^2 = 2PC^2$ find the locus of P.
10. Find the locus of a point P if the join of the points (2,3) and (-1,5) subtends a right angle at P.

SECTION-C

2 × 7 = 14M

III. Answer any TWO of the following questions

11. Find the circumcentre of the triangle formed by (-1,2),(2,-3),(4,5).
12. A(5,3),B(3,-2) are two points. If a point P forms a triangle of area 9 square unit with A, B then find the locus of P.
13. A(2,3),B(2,-3) are two points. If P is a point such that $PA + PB = 8$, then find locus of P.

Paper Setters:

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MATHS IB	MADAN MOHAN	9963570592	HYDDSNG



SRIGAYATRI EDUCATIONAL INSTITUTIONS

INDIA

JR MEC
Time: 3 Hours

IPE MODEL

Date: 26-07-2020
Max. Marks: 50M

COMMERCE

Syllabus: Objectives of Business upto Branches of Commerce

SECTION - A

I. VSAQ: Answer any FIVE of the following questions.

5 x 2 = 10 M

1. Business.
2. Profession.
3. Employment.
4. Industry.
5. Commerce.
6. Genetic Industry.
7. Extractive Industry.
8. Human activities.

SECTION - B

II. SAQ: Answer any FOUR of the following questions.

4 x 5 = 20 M

9. What are the economic activities.
10. What are the social objectives.
11. What are the national objectives.
12. What is the role of profit in business.
13. What is trade? Explain any four types of Aids to trade.
14. What do you understand by commerce.

SECTION - C

2x 10 = 20 M

III. LAQ: Answer any TWO of the following questions.

15. What is Industry? Explain various types of industries with suitable examples.
16. Describe various objectives of a business.
17. Discuss the social responsibility of business.

Paper Setters:

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