



**FUSCO'S SCHOOL (I.C.S.E)**  
**Indiranagar, Bangalore**  
**ANNUAL EXAMINATION 2016-17**  
**Subject: Mathematics**

**Time:  $2\frac{1}{2}$  hrs.**  
**Marks:80**

**Class: VI**

**Section – A**

**Question 1**

- a. Fill in the blanks: 4
- i. If C. P. = Rs.200 and profit = Rs.40, S. P.= -----.
  - ii. A chord passing through the centre of the circle is called -----
  - iii. An equilateral triangle has ----- lines of symmetry.
  - iv. An arrow-head has ----- line of symmetry.
- b. Draw a circle of radius 3.6cm. In the circle, draw a chord AB = 5cm. 3  
Now shade the minor segment of the circle.
- c. Construct a triangle XYZ in which XY = YZ = ZX = 4.5cm. Draw 3  
all its lines of symmetry

**Question 2**

- a. The perimeter of a rectangular field is 64m. If its length is 20m, find : 4
- i. Its breadth
  - ii. Its area
- b. The following table gives the number of children taking part in different 6  
Games in a school.

Games :	Table tennis	Badminton	Chess	Carom	Ludo
No. of children :	95	72	25	30	40

Draw a bar graph to represent this set of data.

**Question 3**

- a. Find the selling price of an article that is brought for Rs.540 and sold at a 3  
Loss of Rs.68.50.
- b. Construct a triangle ABC with AB = 4.2cm, BC = 6cm and AC = 5cm. 3  
Construct the circumcircle of the triangle drawn.
- c. Mark two points A and B 5.5cm apart. Draw a line PQ so that A and 4  
B are symmetric with respect to the line PQ. Give a special name to line PQ.

**Question 4**

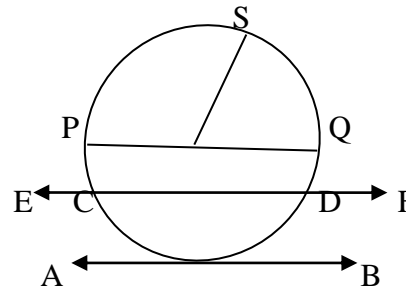
- a. Find the C.P. if S.P. = Rs.300 and profit = 25% 3
- b. A play ground is rectangular in shape. If its length is 60m and width 3  
45m, find :
- i. Its perimeter.
  - ii. The cost of fencing it at the rate of Rs. 2.50 per metre.

- c. Rajesh buys an old sofa-set for Rs. 1250 and spends Rs. 350 on its repairs. 4
- Find the total cost price of the sofa to Rajesh
  - Find the profit or loss made if Rajesh is able to sell the repaired sofa-set for Rs.1540.

### Section – B

#### Question 5

- a. Use the given figure to fill in the blanks 5
- R is the ----- of the circle.
  - Diameter of the circle is -----.
  - Tangent to the circle is -----.
  - EF is a ----- of the circle.
  - If PQ is 8cm long, the length of RS = -----.



- b. The sides of a triangle are 4cm , 5cm , and 6cm long. Find its perimeter. 2
- c. Draw a circle with diameter 6cm, and measure the radius of the circle drawn. 3

#### Question 6

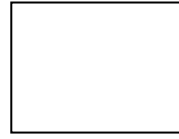
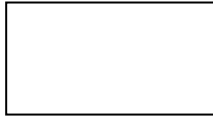
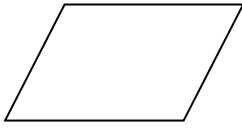
- a. The perimeter of a square is 52 cm. Find the length of one of its sides and also its area. 3
- b. An article is bought for Rs.1960 and Rs.75 is spent on its transportation. At what price must it be sold in order to gain Rs.350. 3
- c. Rajesh buys an old sofa set for Rs.1250 and spends Rs.350 on its repairs. 4
- Find the total cost price of the sofa to Rajesh.
  - Find the profit or the loss made if Rajesh is able to sell the repaired sofa-set for Rs.1540.

#### Question 7

- a. Construct a triangle PQR in which  $PQ = QR = RP = 5.7$  cm. Draw the incircle of the triangle and measure its radius. 5
- b. The area of a square is the same as the area of a rectangle. If each side of the square is 24 cm and the breadth of the rectangle is 18 cm, find : 5
- the area of the rectangle
  - the length of the rectangle
  - the perimeter of the rectangle.

**Question 8**

- a. Draw all the possible lines of symmetry for each figure given below: 3



- b. The area of a square is  $225\text{m}^2$ . Find the length of one of its sides and also its Perimeter. 3
- c. A rectangular carpet is 4.5 m long and 3.2 m wide, find : 4
- i) its area
  - ii) the cost of the carpet at the rate of Rs.36 per square metre.