



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

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

Class: VIII

Section – A

Question 1

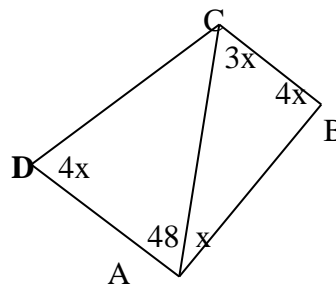
- a. Calculate the amount and the compound interest on Rs. 3500 at 10% per annum in 2 years 3
- b. Construct a quadrilateral ABCD , when $AB = 3.2\text{cm}$, $BC = 5.2\text{cm}$, $CD = 6.2\text{cm}$, $DA = 4.2\text{cm}$ and $BD = 5.2\text{cm}$. 3
- c. Solve the following equations : 4
 - i. $3(x + 1) = 12 + 4(x - 1)$
 - ii. $(x - 5)(x + 3) = (x - 7)(x + 4)$

Question 2

- a. Two angles of a quadrilateral are 68° and 76° . If the other two angles are in the ratio 5:7, find the measure of each of them. 3
- b. Construct a right-angled triangle XYZ, if : $\angle Z = 90^\circ$, $YZ = 5\text{cm}$ and $XY = 7.2\text{cm}$. 3
- c. A borrowed 2,500 from B at 12% per annum compound interest. After 2 years, A gave Rs.2,936 and a watch to B to clear the account. Find the cost of the watch. 4

Question 3

- a. A's salary is same as 4 times B's salary. If together they earn Rs.3750 a month , find the salary of each. 3
- b. Construct a rectangle ABCD when its sides are 6cm and 7.2cm. 3
- c. From the following figure find, 4
 - i. x
 - ii. $\angle ABC$
 - iii. $\angle ACD$



Question 4

- a. Calculate the difference between the simple interest and the compound interest on Rs. 4,000 in 2 years at 8% per annum compounded yearly. 3
- b. The length of a rectangle is twice its width. If its perimeter is 54cm. Find its length. 3
- c. In parallelogram PQRS, $\angle Q = (4x - 5)^\circ$ and $\angle S = (3x + 10)^\circ$. Calculate: $\angle Q$ and $\angle R$. 4

Section – B

Question 5

- a. Find the compound interest correct to the nearest rupee, on Rs. 2400 for $2\frac{1}{2}$ years at 5% per annum. 3
- b. Draw a triangle with sides 4.5cm , 5cm, and 6cm. Draw the incircle of this triangle. 3
- c. A man lends Rs.12,500 at 12% for the first year,at15% for the second year and at 18% for the third year.If the rates of interest are compounded yearly; find the difference between the C.I.of the first year and the compound interest for the third year. 4

Question 6

- a. Solve the equation; 3

$$\frac{a+5}{6} - \frac{a+1}{9} = \frac{a+3}{4}$$
- b. Construct a parallelogram ABCD, when AB = 4.4cm, AD = 6.2cm and AC = 4.8cm. 3
- c. A man’s age is three times that of his son and in twelve years he will be twice as old as his son would be.What are their present ages? 4

Question 7

- a. Solve the following equation 3

$$\frac{x-8}{5} = \frac{x-12}{9}$$
- b. The sum of three consecutive odd numbers is 57.Find the numbers. 3
- c. Calculate the amount and compound interest on Rs. 4600 in 2 years when the rates of interest for successive years are 10% and 12% respectively. 4

Question 8

- a. Three angles of a quadrilateral are equal. If the fourth angle is 69° . Find the measure of equal angles. 3
- b. Construct a regular hexagon of side 3.2cm. 3
- c. ABCD is a rhombus. If $\angle BAC = 38^\circ$, find : 4
 - i. $\angle ACB$
 - ii. $\angle DAC$
 - iii. $\angle ADC$

