R.E.D. Group of Schools

Sample Paper for Scholarship Cum Admission Test

Class - XI

MAT

1. If $\frac{1}{9}$ of a number is 4 more than is $\frac{1}{10}$, then number is -

   (a) 300 (b) 260 (c) 460 (d) 360

2. If x% of x is 25, x will be -

   (a) 50 (b) 40 (c) 60 (d) 500

ENGLISH

Direction : Choose the word that is most nearly opposite in meaning to the given words.

3. CHIDE :

   (a) scold (b) rebuke (c) praise (d) reprimand

4. FIDELITY :

   (a) disloyality (b) dependability (c) Suitability (d) commitment

MATHEMATICS

5. If $\sin x + \text{cosec } x = 2$, then $(\sin^{10}x + \text{cosec}^{10}x)$ is equal to -

   (a) 3 (b) 0 (c) 1 (d) 2

6. The hypotenuse of a right traingle is 10 cm and radius of the inscribed circle is 1 cm. The perimeter of the traingle is -

   (a) 15 cm (b) 22 cm (c) 24 cm (d) 18 cm

SCIENCE

7. The magnetic field lines inside a long current carrying solenoid are nearly -

   (a) Circular (b) Parabolic (c) Straight (d) Elliptical

8. An AC generator is connected to an electri appliance. In 10 revolutions of the armature the current in the appliance changes direction -

   (a) 5 times (b) 10 times (c) 20 times (d) 40 times

SOCIAL SCIENCE

9. An example of indirect taxes is -

   (a) Income Tax (b) Corporate Tax (c) Estate Tax (d) Entertainment Tax

10. Which academy supports food security programme ?

    (a) Academy of Development (b) Academy of Crop Science

    (c) Academy of Food Security (d) Academy of Grain Science