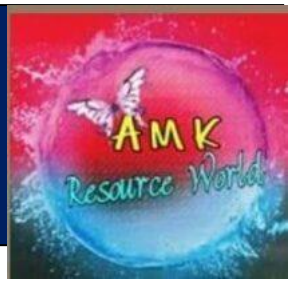
AMK Resource World

SSLC – Daily Practice Papers



CONSTRUCTION

MATHS PRACTICE PAPER 05

Total Marks : 20

I. Choose the Most Appropriate Answers **3 x 1 = 3**

1. To draw a pair of tangents to a circle which are inclined to each other at an angle of 35°. It is required to draw tangents at the end points of those two radii of the circle, the angle between which is
   a. 105° b. 70° c. 140° d. 145°
2. To divide a line segment AB in the ratio 4 : 7, ray AX is drawn first such that ∠BAX is an acute angle and then points A_1, A_2, A_3,..... are located at equal distances on the ray AX and the point B is joined to
   a. A_{12} b. A_{11} c. A_{10} d. A_9
3. To divide a line segment AB in the ratio 5 : 7, first a ray AX is drawn so that ∠BAX is an acute angle and then at equal distances points are marked on the ray AX such that the minimum number of these points is
   a. 8 b. 10 c. 11 d. 12

II. Solve the following **2 x 1 = 2**

4. A pair of tangents can be constructed from a point P to a circle of radius 3.5 cm situated at a distance of How much maximum from the centre
5. If the scale factor is 3/5, then the new triangle constructed is _____ the given triangle.

III. Solve the following **4 x 2 = 8**

6. Draw a line segment of length 7.6 cm and divide it in the ratio 5:8. Measure the two parts
7. Construct a triangle of sides 4 cm, 5 cm and 6 cm and then a triangle similar to it whose sides are 2/3 of the corresponding sides of the first triangle
8. Draw a line segment of length 6 cm. Using compasses and ruler, find a point P on it which divides it in the ratio 3 : 4.
9. Draw a pair of tangents to a circle of radius 5 cm which are inclined to each other at an angle of 60°

IV. Solve the following **1 x 3 = 3**

10. Draw a triangle ABC in which AB = 5 cm, BC = 6 cm and ∠ABC = 60°. Then construct a triangle whose sides are 5/7 times the corresponding sides of ΔABC.

V. Solve the following **1 x 4 = 4**

11. Draw a line segment AB of length 8 cm. Taking A as centre, draw a circle of radius 4 cm and taking B as centre, draw another circle of radius 3 cm. Construct tangents to each circle from the centre of the other circle.