INDIAN SCHOOL AL WADI AL KABIR

Class: XI	Department: SCIENCE	Date: 22/05/2025
MARKS: 30	**UNIT TEST 1** **ENGINEERING GRAPHICS (046)** **MARKING SCHEME**	**DURATION :1 HOUR**

General Instructions:

(i) Attempt all the questions.
(ii) Use both sides of the drawing sheet, if necessary.
(iii) All dimensions are in millimeters.
(iv) Missing and mismatching dimensions, if any, may be suitably assumed.
(v) Follow the SP: 46 – 2003 revised codes. (with first angle method of projection)
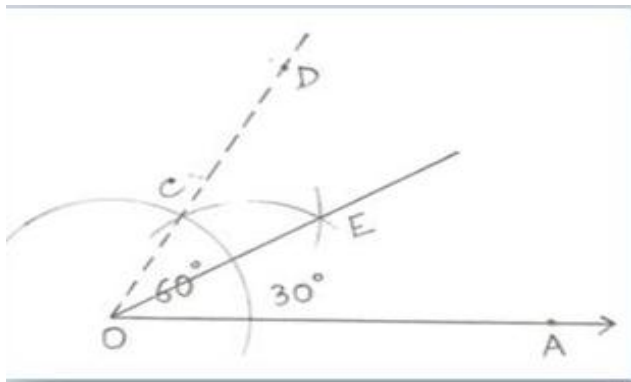
$10 \times 1 = 10$

SECTION – A

Q.NO	ANSWERS
1	(b) meters
2	(a) Circular
3	(c) Continuous thick line
4	(c) Hatching line
5	(b) Aligned system
6	(a) Hexagon

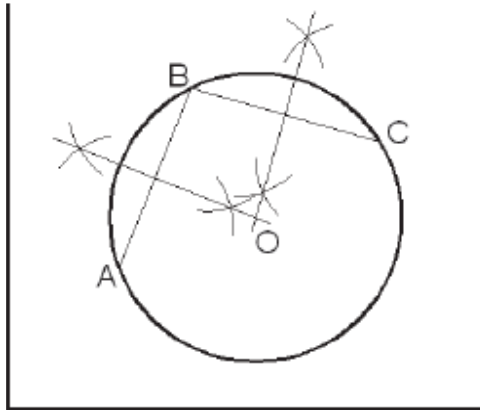|	
7	a) 1-iii, 2-iv, 3-i, 4-ii
8	(a) Circumference = $\pi \times$Diameter
9	(c) 62.83 cm
10	(b) Concentric circles

SECTION B

$$2 \times 2 = 4$$

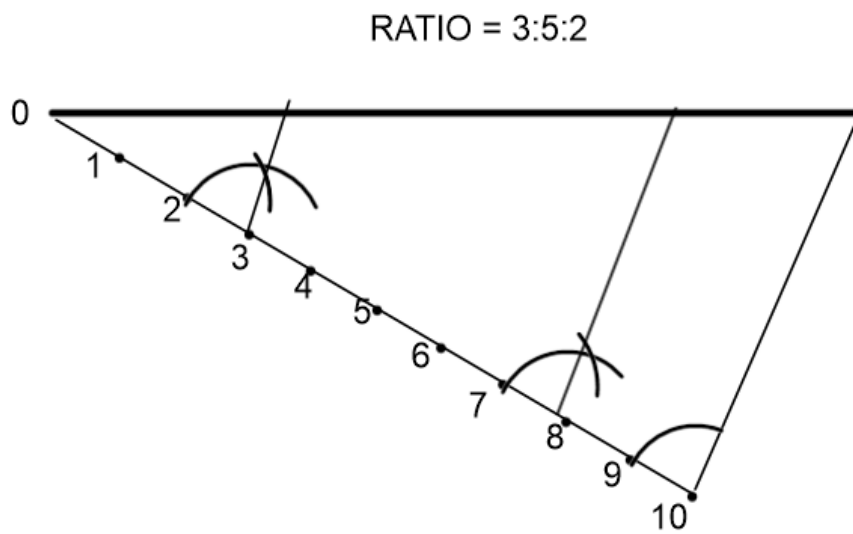**11**. Construct a 30-degree angle using compasses.

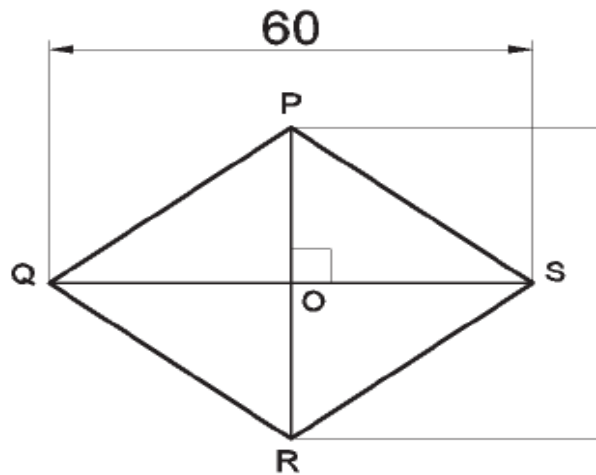**12.** To draw a circle passing through three non-collinear points A, B and C.

2 × 3 = 6

13. Divide a straight-line AB in the ratio 3:5:2.
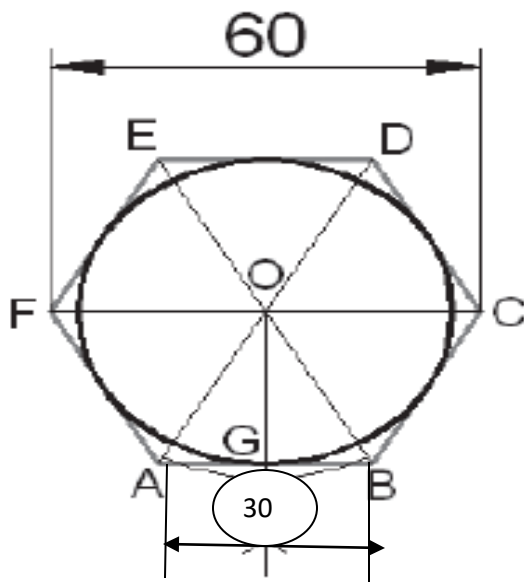

RATIO = 3:5:2

14. Construct a rhombus PQRS with diagonals 46 mm and QS = 60 mm.

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2 × 5 = 10

15. Construct a regular hexagon with base AB = 30 mm using protractor,now inscribe a circle in

it.

16. Construct a regular pentagon of 40 mm using compassess.

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