



INDIAN SCHOOL AL WADI AL KABIR

Class: XII	Department: SCIENCE	Date: 25/05/2025
MARKS: 30	UNIT TEST 1 <u>ENGINEERING GRAPHICS (046)</u> <u>MARKING SCHEME</u>	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)
- (vi) In no view of question 12, are hidden edges or lines required.

$$10 \times 1 = 10$$

SECTION – A

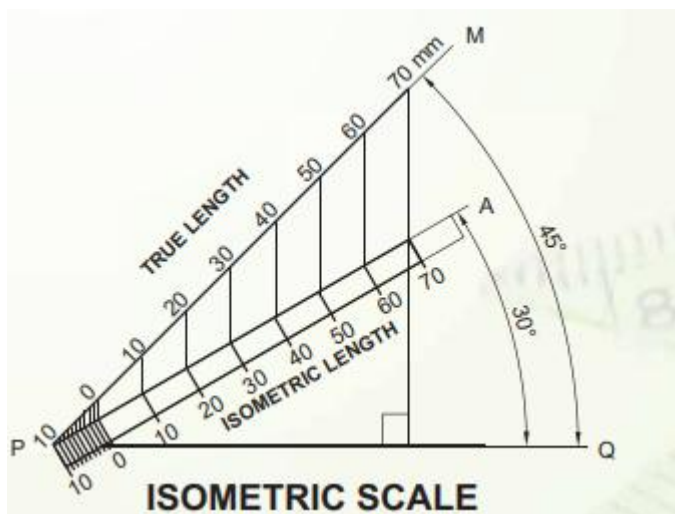
Q.NO	ANSWERS
1	(b) Isometric
2	(c) Lead
3	(a) flank
4	(d) Both b and c
5	(d) Spherical dimensions are not foreshortened in isometric projection.

6	(a) A cylinder is placed centrally on a hemisphere with its common axis perpendicular to HP.
7	(d) 1-ii, 2-iii, 3-iv, 4-i
8	(a) Permanent
9	(d) Knuckle thread
10	(b) BSW thread

SECTION B

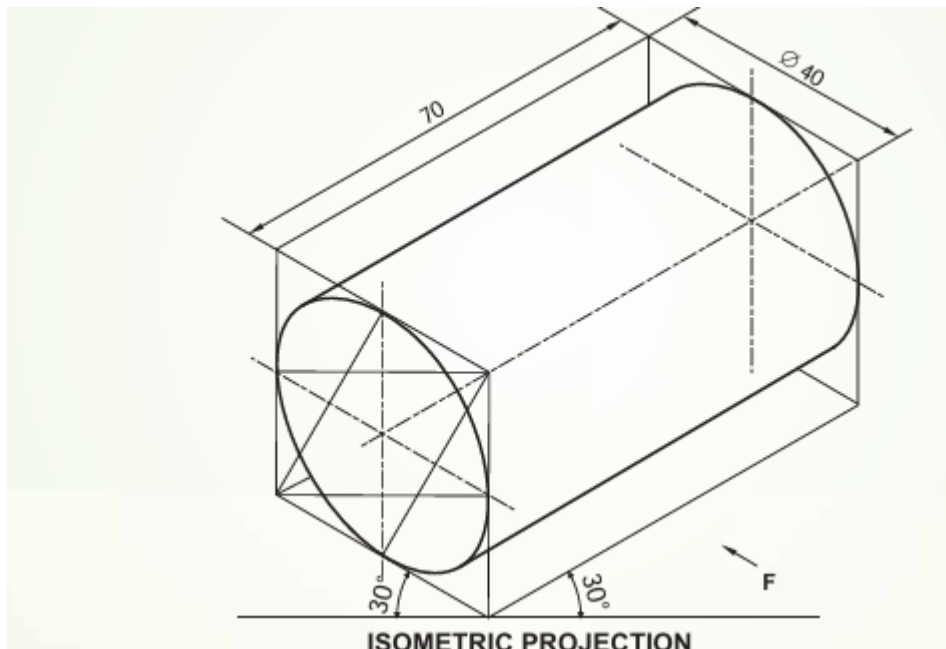
$$1 \times 4 = 4$$

11. Construct an isometric scale.



$$1 \times 10 = 10$$

12. Draw the isometric projection of a cylinder of diameter 40 mm and axial length of 70 mm lying on the H.P. keeping its axis parallel to H.P. and V.P. both. Indicate direction of viewing and give all dimensions.



$$1 \times 6 = 6$$

13. Draw to scale 1:1, the standard profile of Metric thread external, taking pitch = 50 mm. Give standard dimensions.

P	D = 0.96P	d = 0.64P	D/6	0.5P
50	48	32	8	25

