

ANSWER KEY – CLASS 12 – EG – P-1 – SET 1 – 2023 – 24**20 x 1 = 20****SECTION – A**

Q.NO	ANSWERS
1	b) Axonometric projection
2	a) Holes or slots
3	a) Square thread
4	a) Square
5	b) The top solid is cube and the bottom solid is triangular prism
6	c) The axis is perpendicular to H.P. and parallel to V.P.
7	b) The isometric projection of a sphere is a circle whose diameter is equal to the true diameter of the sphere.
8	b) 1-iii, 2-iv, 3-i, 4-ii

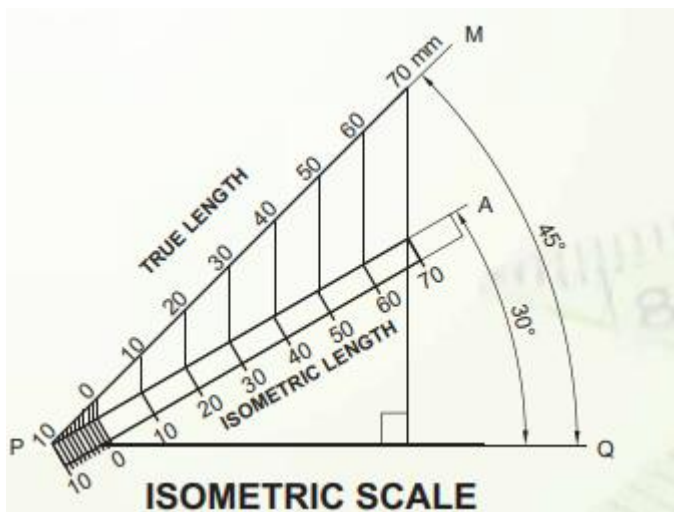
9	b) (iii) and (iv) only
10	b) The size of common axis is less than true 90mm.
11	(d) Gun metal
12	a) Nut end
13	a) 30 degree
14	c) Round rods
15	b) C, A, D, E, B
16	a) Machine screw
17	b) Rivet heads
18	b) 32

19	c) Grub screw
20	c) 0.4d

SECTION B

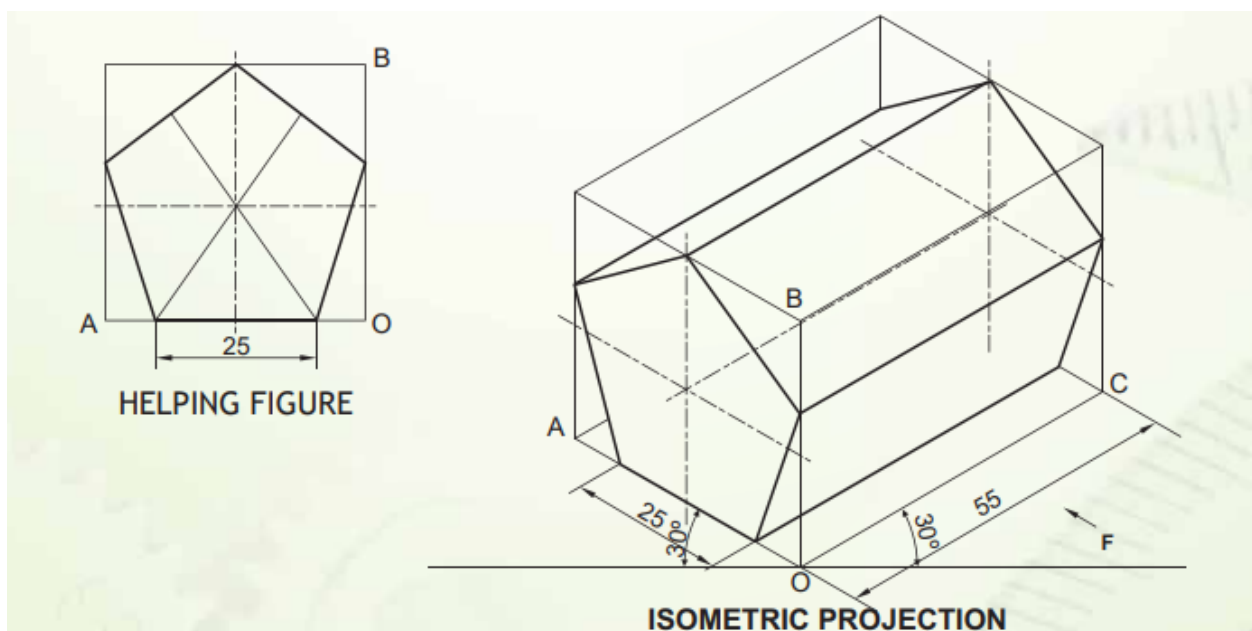
1 x 5 = 5

21.a) Construct an isometric scale of 80 mm.



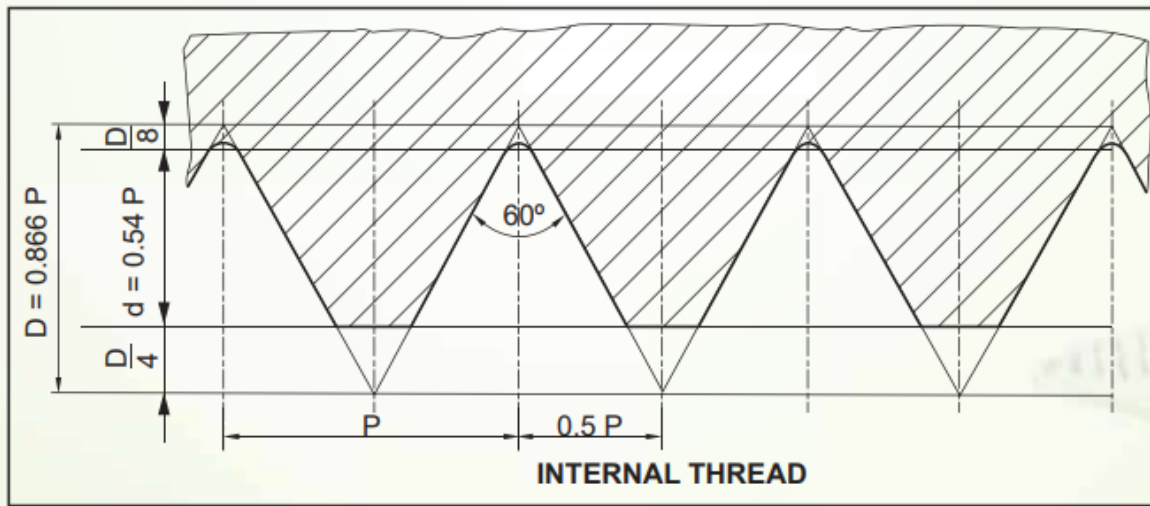
1x10 =10

21 b). Draw the isometric projection of a pentagonal prism (base edge 25 mm, axial length 55mm) resting on its face with its axis parallel to H.P. and V.P. both. Indicate the direction of viewing. Give all the dimensions.



1 x 8= 8

22. Draw to scale 1:1, the standard profile of Metric thread (Internal) with enlarged pitch as 50 mm. Give standard dimensions.

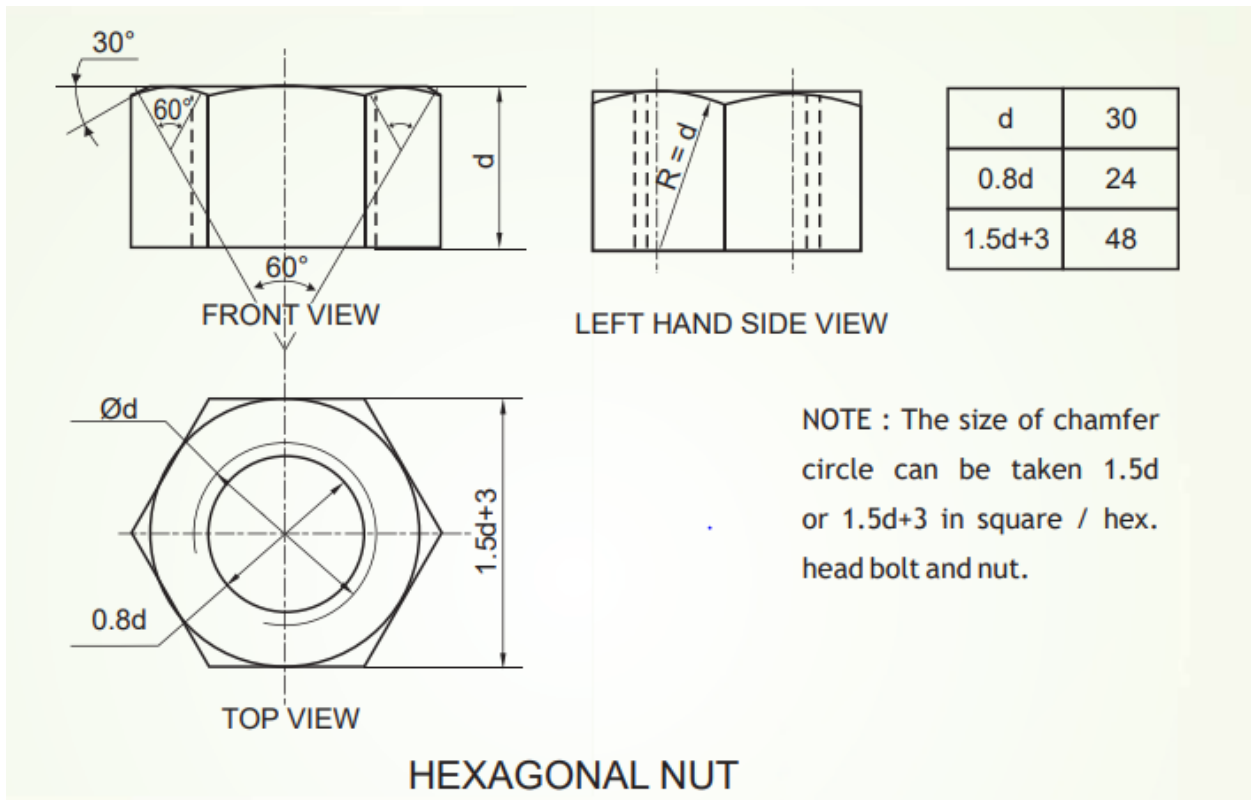


P	D=0.86P	d=0.54P	D/8	D/4
50	43	27	6.3	12.5

METRIC SCREW THREAD PROFILE

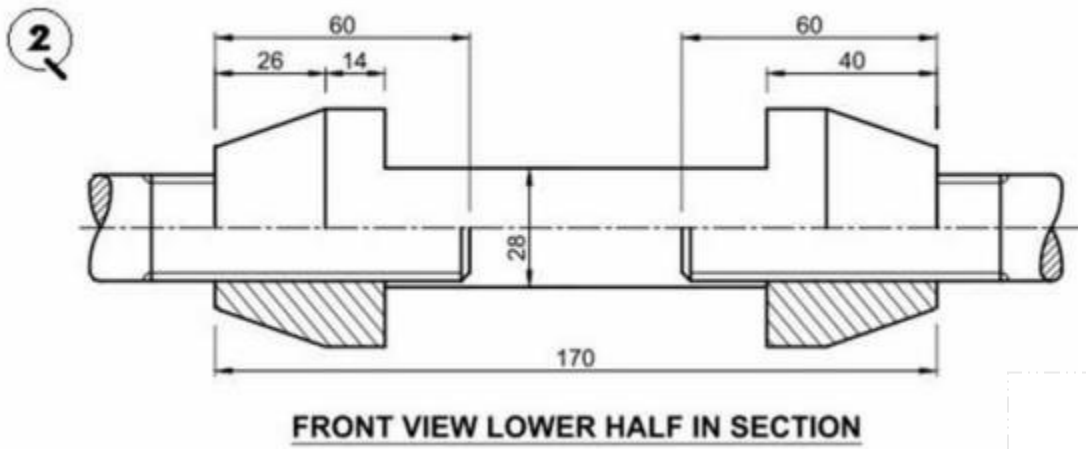
OR

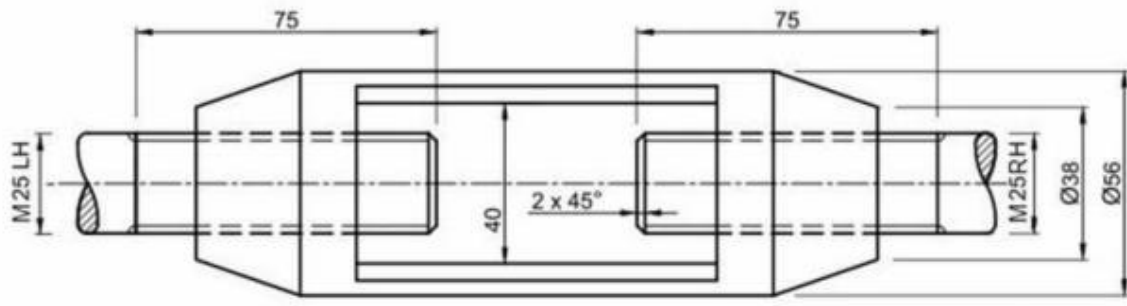
Draw to scale 1:1, the front view, top view and side view of a hexagonal nut of size M30, keeping the axis perpendicular to H.P. Give standard dimensions.



23.

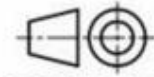
1 x 27 = 27





TOP VIEW

ASSEMBLY OF TURN BUCKLE

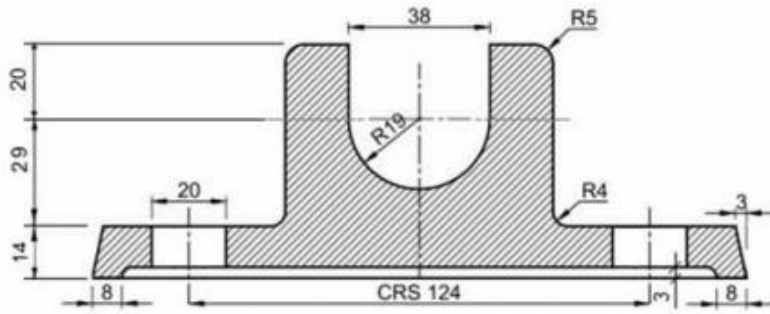


SCALE - 1:1

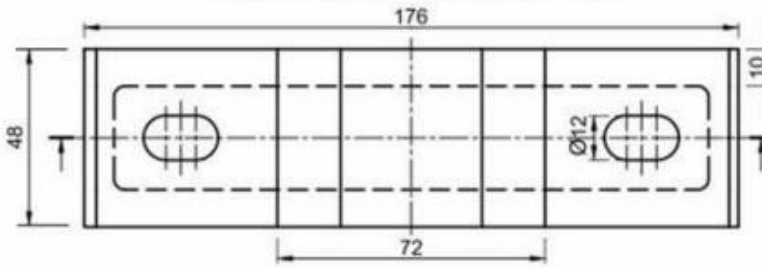
OR

2 OR

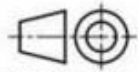
BODY



FULL SECTIONAL FRONT VIEW

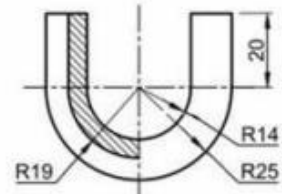


TOP VIEW

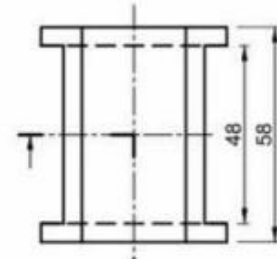


SCALE - 1:1

BUSH



FRONT VIEW LEFT HALF IN SECTION



TOP VIEW

DISASSEMBLY OF OPEN BEARING
