INDIAN SCHOOL AL WADI AL KABIR

REHEARSAL II - EXAMINATION

CLASS: XII **MARKING SCHEME** MAX MARKS: 70
DATE:21.01.25 TIME: 3 HOURS

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 question 23, hidden edges or lines are to be shown in views without section.
(vii) In question 24, no hidden edges or lines required.

14 × 1 = 14

SECTION – A

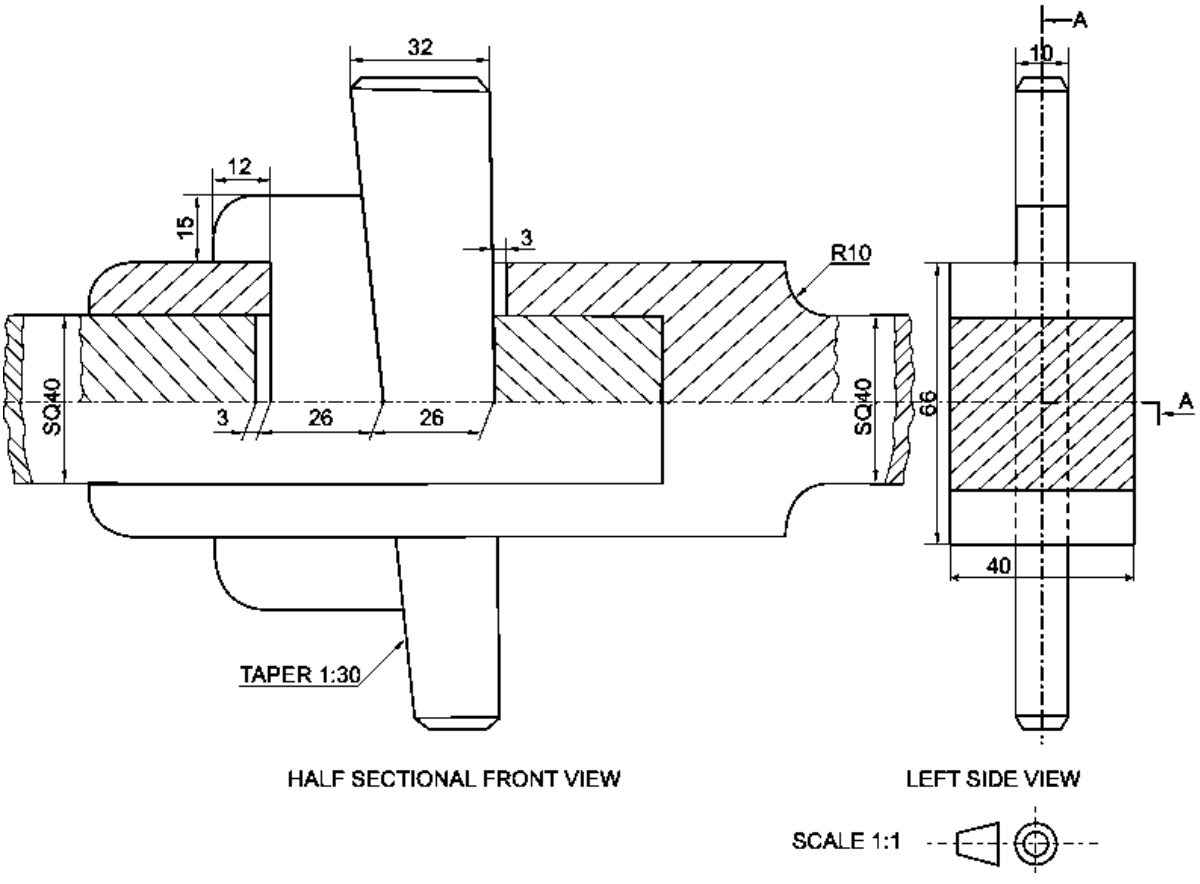
Q.NO	ANSWERS
1	(a) Millimeter
2	(b) Visible lines
3	(b)A hexagonal prism is kept centrally on the top circular surface of a cylinder with its rectangular faces on it.
4	(c) P/4
5	(b) excluding the height and thickness of the bolt head.
6	(c) Gib and cotter joint

7	(d) 1-ii, 2-iii, 3-iv, 4-i
8	(c)A sphere is kept centrally on the top rectangular face of a hexagonal prism with its curved surface on it.
9	(c) 1-iv, 2-i, 3-ii, 4-iii
10	(d) Turnbuckle
11	(c) Tie rod joint
12	(d) 60 degree
13	(c) Gib and cotter joint
14	(c) 3 mm

SECTION B

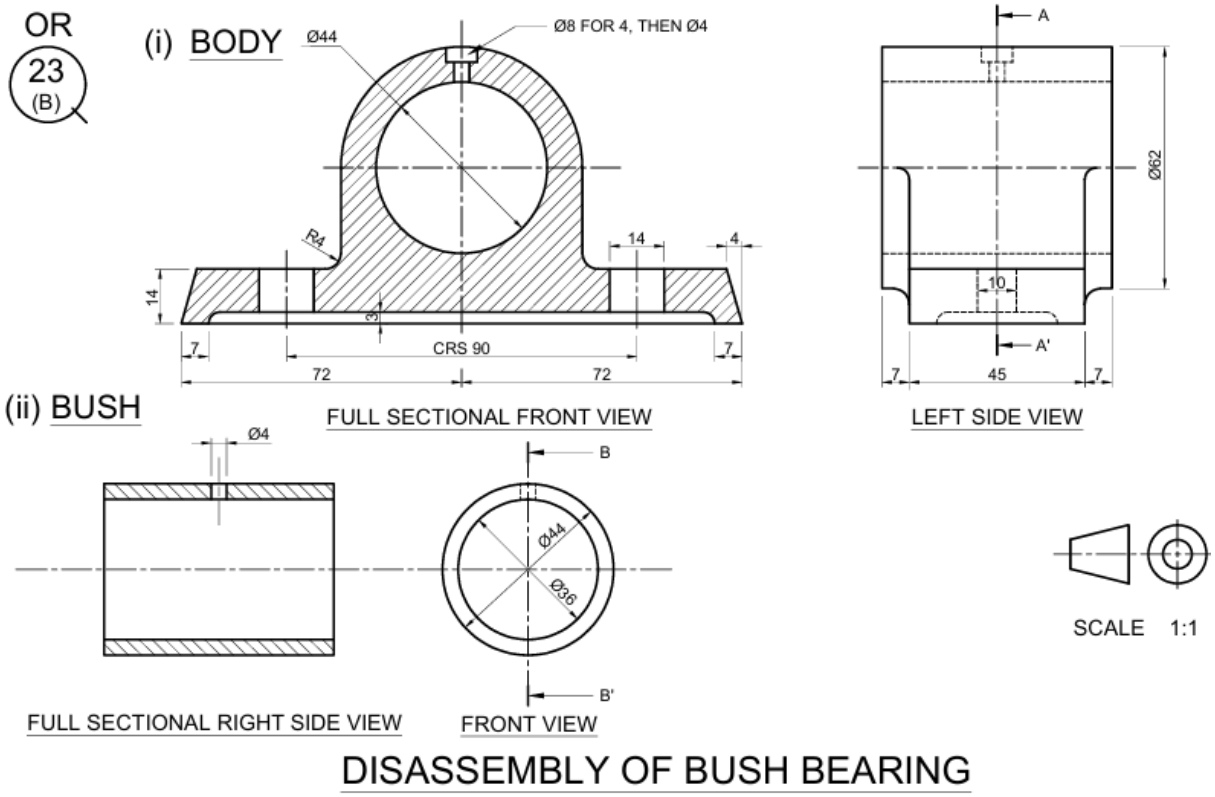
Q.NO	ANSWERS
15	(d) ellipse
16	(b) Four center method
17	(a) Less than 200 mm
18	(d) Isometric scale
19	(d) snap head rivet
20	(c) Rivets
21	(c) 50 mm
22	(c) CSK head rivet

23.(a) Assembly of Gib & Cotter joint (27)



OR

23.(b) Disassembly of Bushed bearing



SECTION C

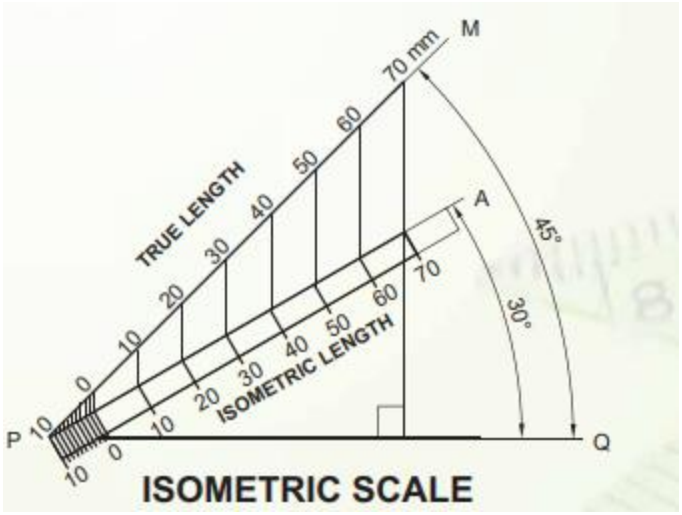
1 × 4 = 4

24.(a) ISOMETRIC SCALE

a. Drawing 45 degree inclined line showing true lengths (1)

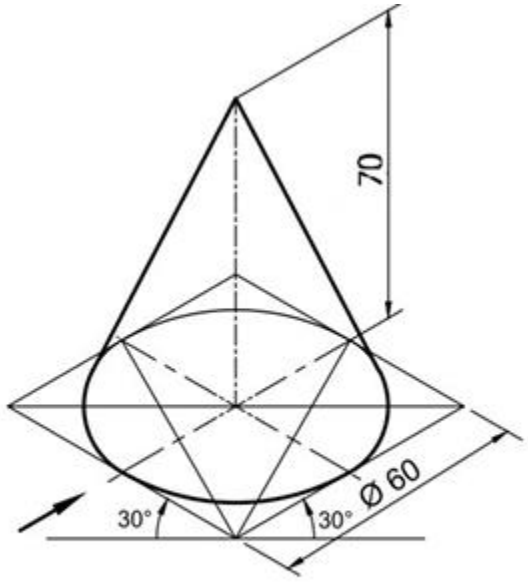
b. Projections on 30 degree inclined line showing isometric length with 1mm subdivisions in one part (2)

c. Writing title, sub titles and angles (1)



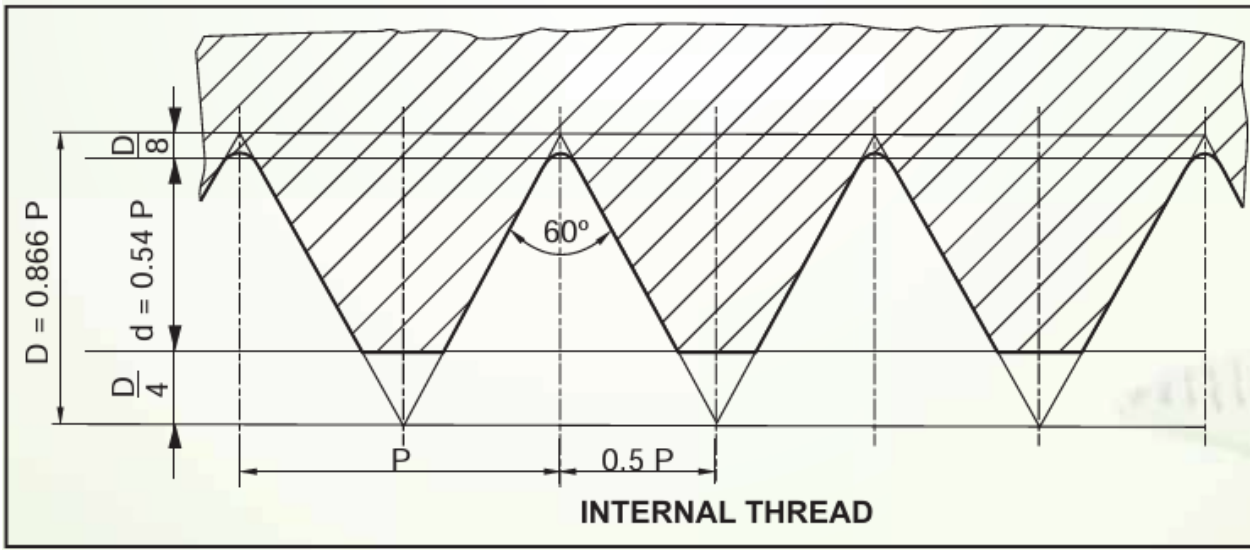
ISOMETRIC SCALE

24.(b) (9)



ISOMETRIC PROJECTION

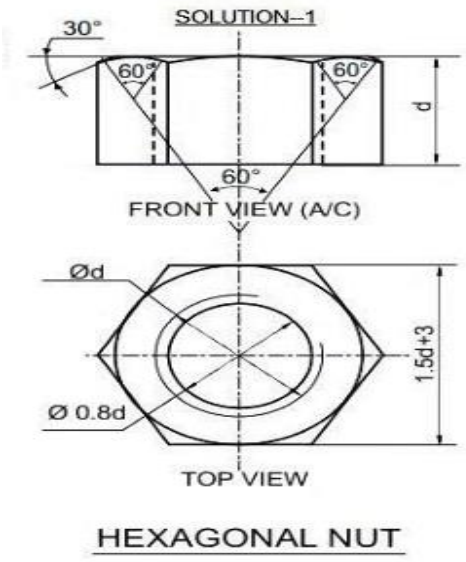
25.(a) Metric thread Internal (8)



P	D = 0.86P	d = 0.54P	D/8	D/4
50	43	27	5.3	10.7

OR

25.(b)



d	25
0.8d	20
1.5d+3	40