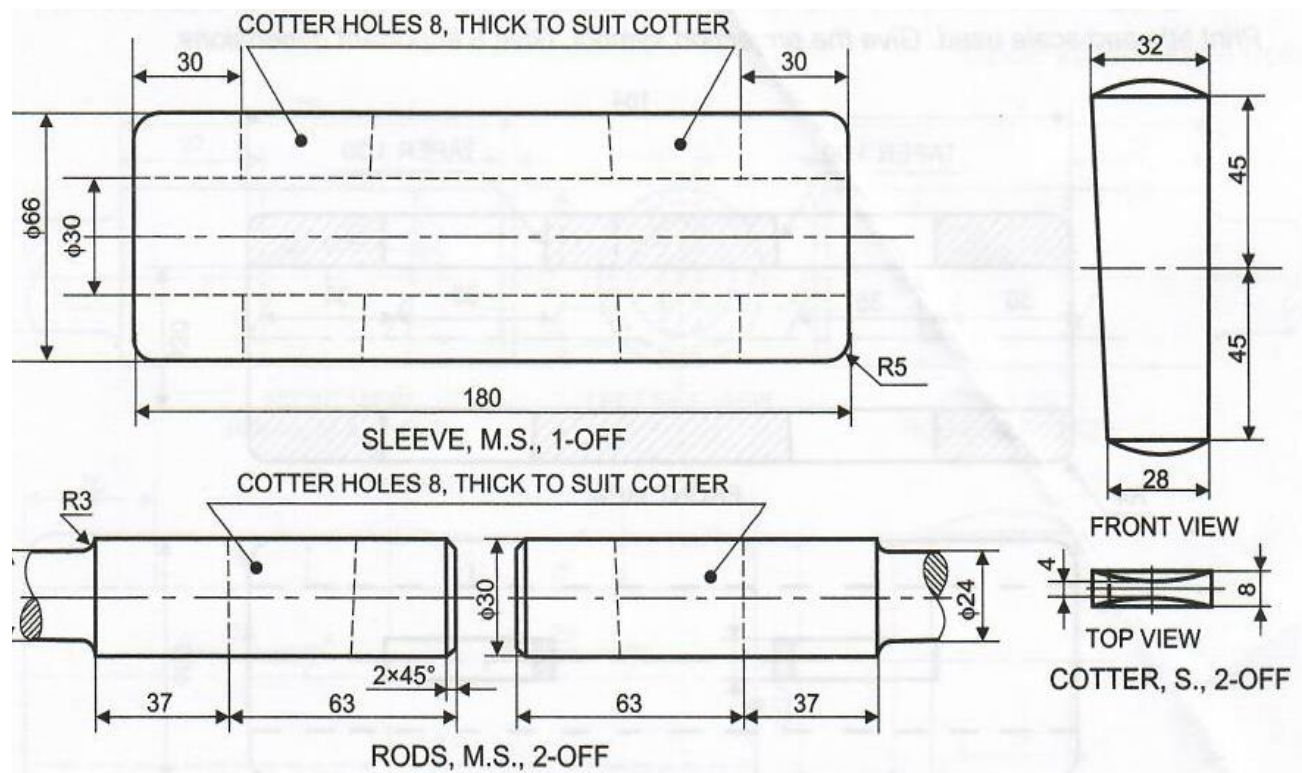


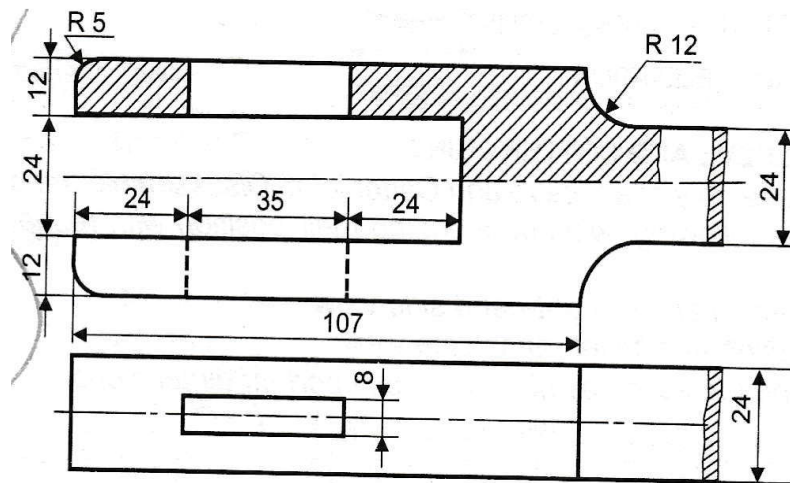
	INDIAN SCHOOL AL WADI AL KABIR		
Class: XII	Department: SCIENCE 2024– 25 SUBJECT: ENGINEERING GRAPHICS	Date of submission: 24.10.2024	
Worksheet No: 4 WITH ANSWERS	UNIT 4: ROD JOINTS		Note: A4 FILE FORMAT
NAME OF THE STUDENT	CLASS & SEC: XII C/E	ROLL NO.	

Questions

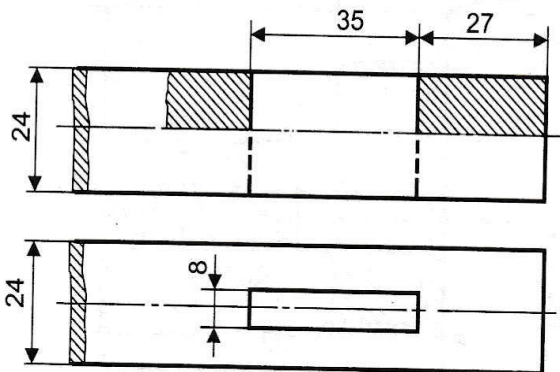
1. The figure shows the details of the parts of a Sleeve and Cotter joint. Assemble these parts correctly and then draw the following views to scale 1:1.

- (a) Front view upper half in section
- (b) Left hand side view
- (c) Print title, scale used and give all dimensions.

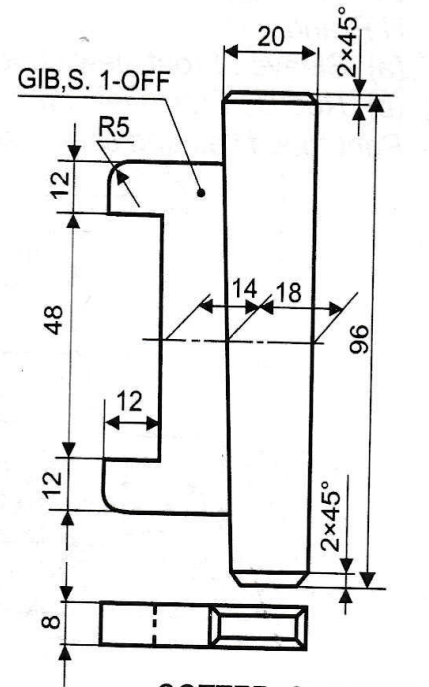




STRAP, F.S., 1-OFF



ROD, F.S., 1-OFF



COTTER, S., 1-OFF

MULTIPLE CHOICE QUESTIONS

1. Which joint is used for rods of square cross section?

- (a) Knuckle joint
- (b) bushed bearing
- (c) socket and spigot joint
- (d) gib and cotter joint

2. Gib is always provided in conjunction with :

- (a) key
- (b) cotter

- (c) bolt
- (d) Rivet

3. How much taper is generally used in the width of a cotter?

- (a) 1:3
- (b) 1:10
- (c) 1:30
- (d) 1:50

4. Gib is provided towards which end of fork in a cotter joint.

- (a) broken end
- (b) upper end
- (c) lower end
- (d) open end

5. A cotter joint is used to connect two

- (a) co axial rods
- (b) perpendicular rods
- (c) parallel rods
- (d) rods in any position

6. Match the LIST I with LIST II LIST I LIST II

LIST I	LIST II
1. GIB & COTTER JOINT	(i) Used for joining two circular rods
2. SLEEVE & COTTER JOINT	(ii) used for supporting horizontal shaft
3. OPEN BEARING	(iii) used for joining two pipes.
4. FLANGE PIPE JOINT	(iv) used for joining two square rods.

- (a) 1-iv, 2-i, 3-ii, 4-iii
(b) 1-i, 2-ii, 3-iii, 4-iv
(c) 1-iv, 2-iii, 3-ii, 4-i
(d) 1-i, 2-iii, 3-iv, 4-ii

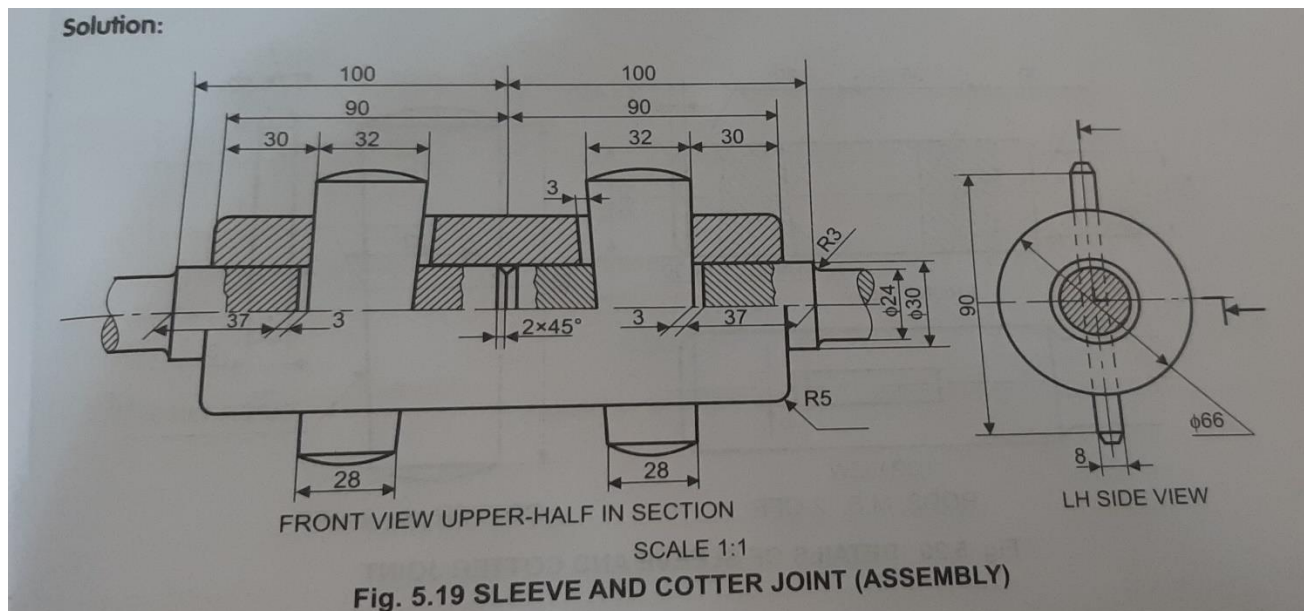
MULTIPLE CHOICE QUESTIONS

ANSWERS

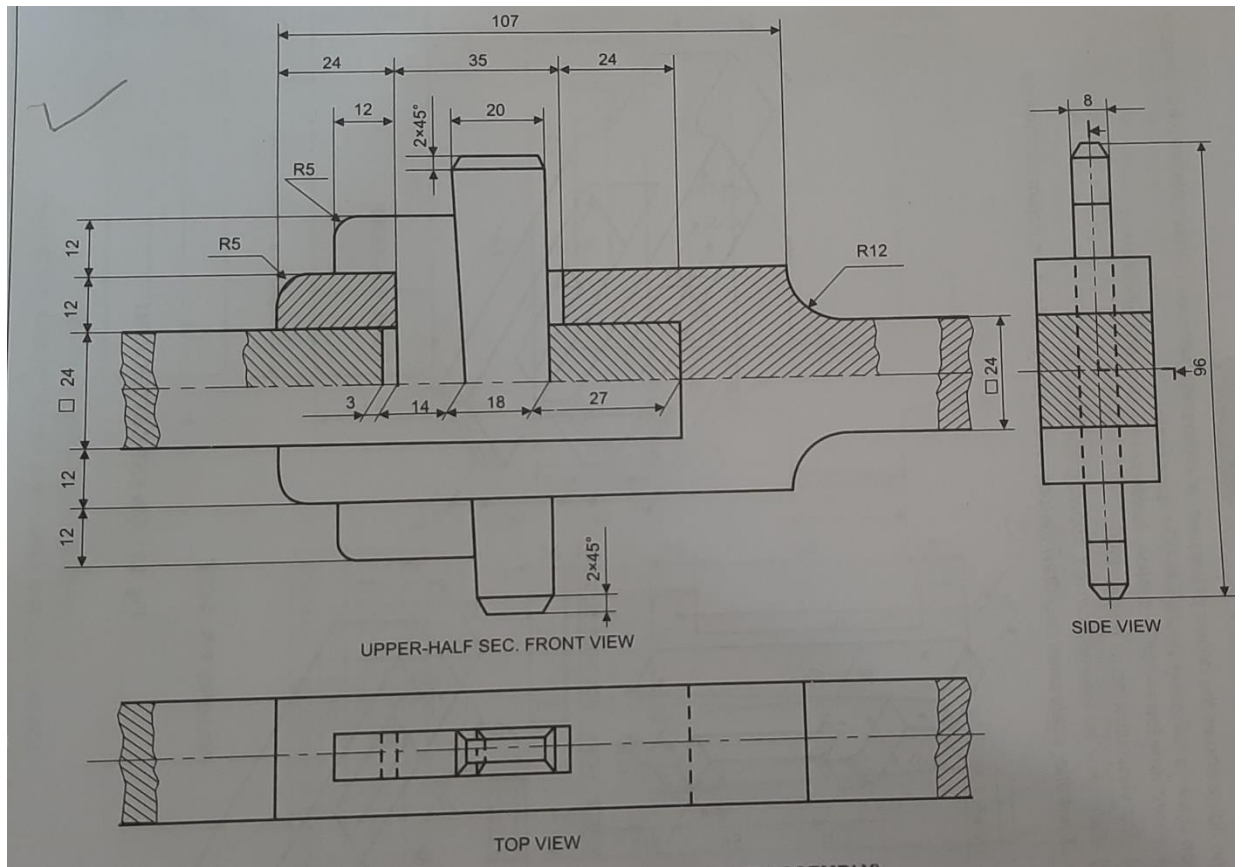
- 1.(d) Gib and cotter joint
2.(b) Cotter
3.(c) 1:30
4.(d) Open end
5.(a) Co-axial rods
6. (a) 1-iv, 2-i, 3-ii, 4-iii

SOLUTIONS FOR DRAWINGS

1.



2. Gib and Cotter joint Assembly



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HoD Science