

SAMPLE QUESTION PAPER

TERM 2 (2021-22)

XII

ENGINEERING GRAPHICS (046)

MARKING SCHEME

Maximum Marks: 35

	<u>Distribution of Marks</u>
1. <u>COLLAR STUD</u>	7
(i) Front view with horizontal axis.	3
(ii) Side view.	2
(iii) Standard dimensions.	2
2. <u>SLEEVE AND COTTER JOINT (Assembly)</u>	
(i) <u>FRONT VIEW UPPER HALF IN SECTION:</u>	15
(a) Drawing the upper half of sleeve with clearance and with hatching lines and drawing the lower half of sleeve.	5
(b) Drawing both the cotters in upper half and in lower half.	4
(c) Drawing both the rods with clearance and conventional ends with hatching lines.	6
(ii) <u>SIDE VIEW LOOKING FROM THE LEFT END:</u>	7
(a) Drawing three circles and conventional hatching at the end of rod.	4
(b) Drawing cotter.	$2\frac{1}{2}$
(c) Drawing cutting plane.	$\frac{1}{2}$
<u>DETAILS :</u>	6
(a) Printing title.	1
(b) Scale used.	1
(c) Projection symbol.	1
(d) Six important dimensions.	3

[OR]

FLANGE AND PIPE JOINT (Disassembly)

(i) **FLANGE B**

- | | |
|---|------------------|
| (a) <u>FRONT VIEW UPPER HALF IN SECTION:</u> | 8 |
| (i) Drawing the upper half of flange with hole of dia 12mm. | 4 |
| (ii) Drawing the lower half of flange. | 2 |
| (iii) Hatching lines | 2 |
| (b) <u>RIGHT HAND SIDE VIEW :</u> | 8 |
| (i) Drawing four circles and one p.c.d. circle. | 4 ^{1/2} |
| (ii) Drawing four circles of dia 12 mm. | 2 |
| (iii) Hatching lines at the conventional end of pipe. | 1 |
| (iv) Cutting plane. | 1/2 |

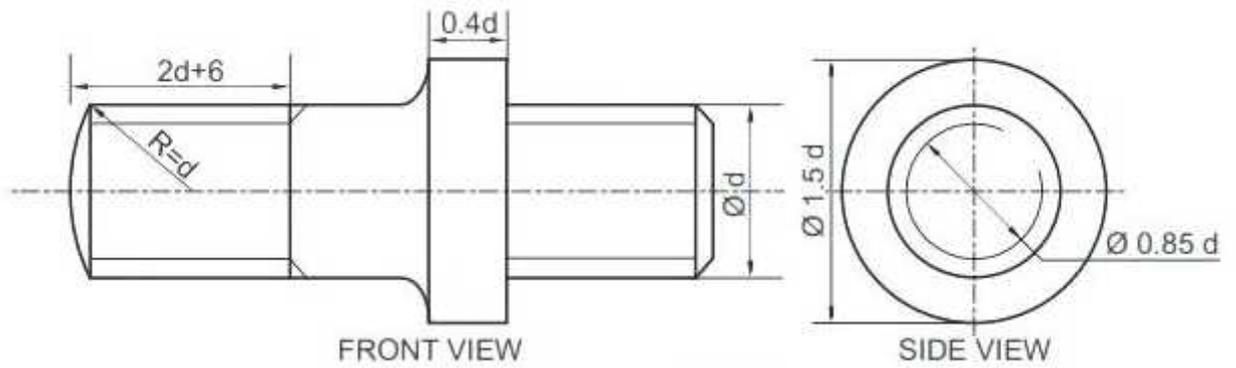
(ii) **GASKET**

- | | |
|--|------------------|
| (a) <u>FRONT VIEW:</u> | 3 |
| (i) Rectangle with two horizontal lines of internal dia of 44mm. | 2 |
| (ii) Shaded portion showing rubber material of gasket. | 1 |
| (b) <u>LEFT SIDE VIEW :</u> | 3 |
| (i) Drawing both circles. | 2 ^{1/2} |
| (ii) Cutting plane. | 1/2 |

DETAILS :

- | | |
|-------------------------------|----------|
| (a) Printing titles. | 6 |
| (b) Scale used. | 1 |
| (c) Projection symbol. | 1 |
| (d) Six important dimensions. | 3 |

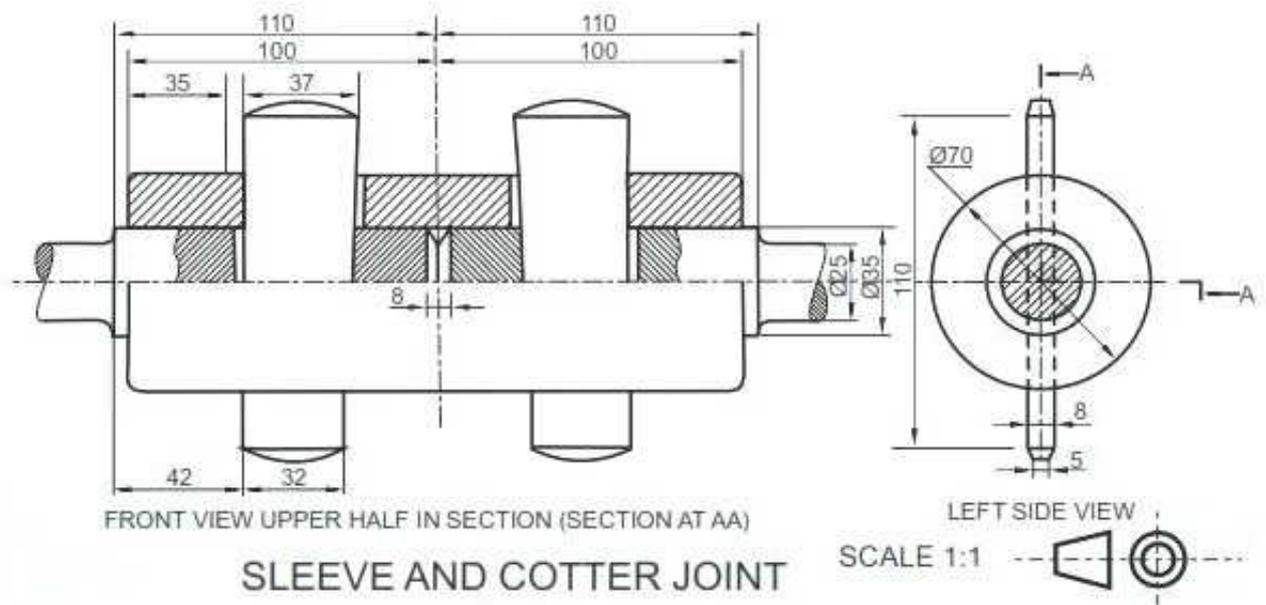
1.



d	1.5d	2d+6	0.4d	0.85d
20	30	46	08	17

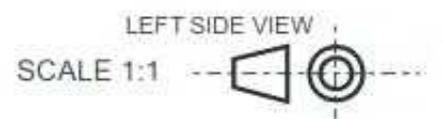
COLLAR STUD

2.

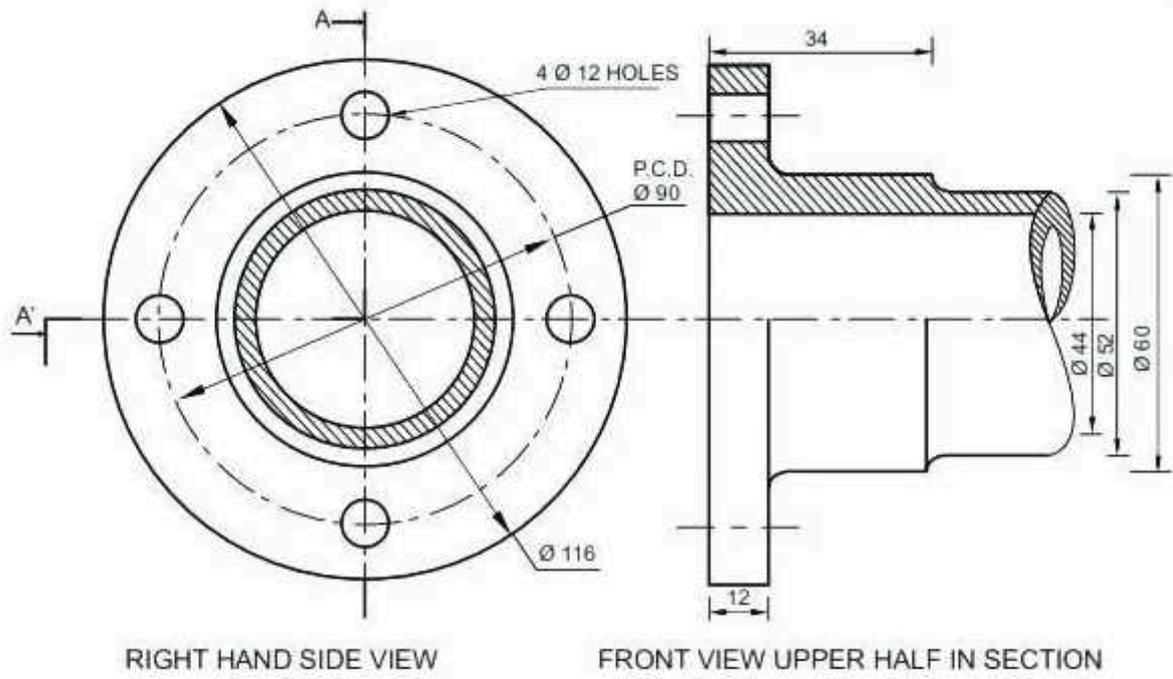


FRONT VIEW UPPER HALF IN SECTION (SECTION AT AA)

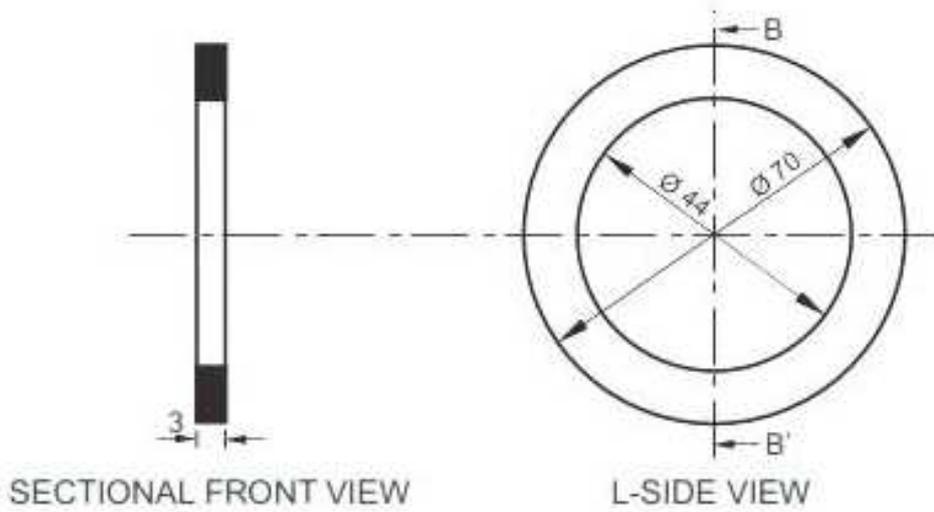
SLEEVE AND COTTER JOINT



OR

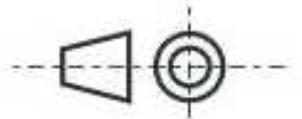


FLANGE-B



GASKET

SCALE 1:1



FLANGE PIPE JOINT DIS ASSEMBLY