	INDIAN SCHOOL AL WADI AL KABIR		
Class: XII	Department: SCIENCE – 2021-2022 SUBJECT: ENGINEERING GRAPHICS		Date of Completion: 13.02.2022
Worksheet No:5 With Answers	Topic: TIE ROD AND PIPE JOINTS		Note: A4 FILE FORMAT
NAME OF THE STUDENT:	CLASS: XII	SECTION:C	ROLL NO:

QUESTIONS

1. The figure shows the assembly of the parts of a flanged pipe joint. Disassemble the parts and draw the following views of the components to scale 1:1, keeping them in the same position with respect to HP and VP.

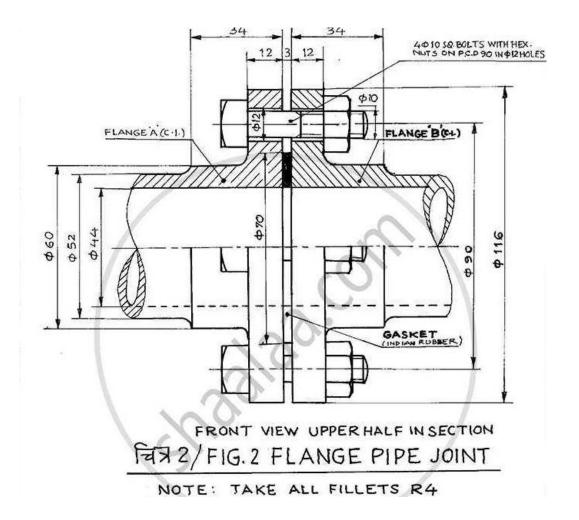
(i) Flange B

- a) Front view, upper half in section
- b) Right hand side view

(ii) Gasket

- a) Full sectional front view
- b) Left hand side view

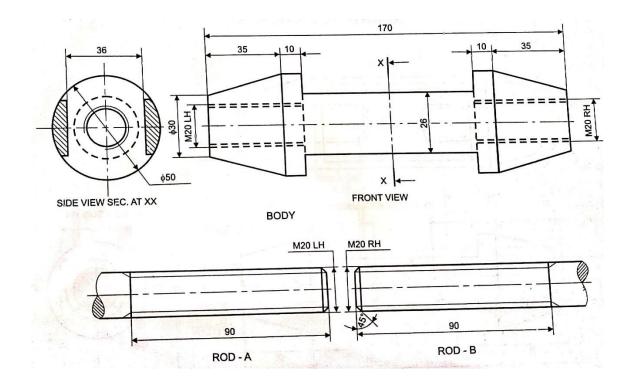
Print the titles of both and scale used. Draw the projection symbol and give 6 important dimensions.



2. The figure shows the details of the parts of a Turnbuckle. Assemble these parts correctly and then draw its following views to a scale 1:1. inserting 70 mm threaded portion of each rod, inside the body of the turnbuckle.

- a) Front view, upper half in section
- b) Side view as viewed from right
- c) Top view

Write heading and scale used. Draw the projection symbol. Give 6 important dimensions,



MULTIPLE CHOICE QUESTIONS

- 1. Which joint is used for joining cables, ropes and wires of electric poles?
- a) Knuckle joint
- b) Flange pipe joint
- c) Tie rod joint
- d) Strap joint

flanges to:				
a) Fill the gap between two flanges				
b) Align the two flages				
c) Make a leak proof joint				
d) support nuts and bolts				
3. How many rods are needed for the assembly of a turnbuckle				
a) 1				
b) 2				
c) 4				
d) 3				
4. The hollow cylindrical pipe on the pipe joint is called as				
a)Flange				
b)Gasket				
c)bolt				
d)nut				

2. A rubber ring as a gasket in flange pipe joint is provided between the two

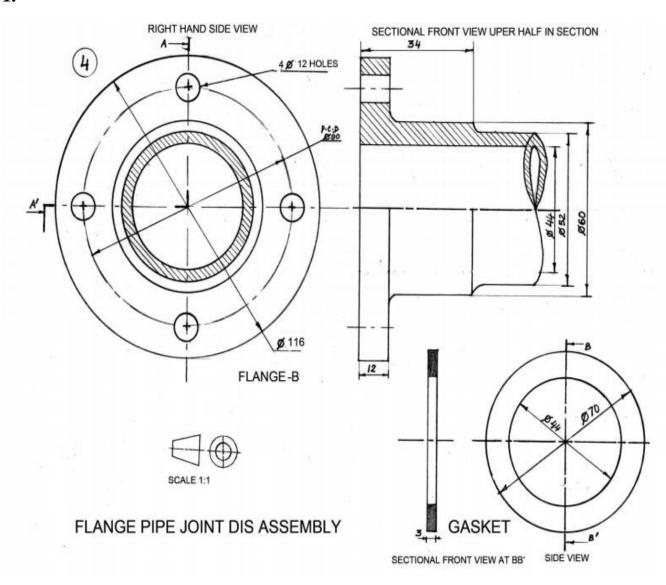
- 5. Which one is an adjustable joint?
- a) cotter joint
- b) Turnbuckle
- c) Spigot joint
- d) None of the above

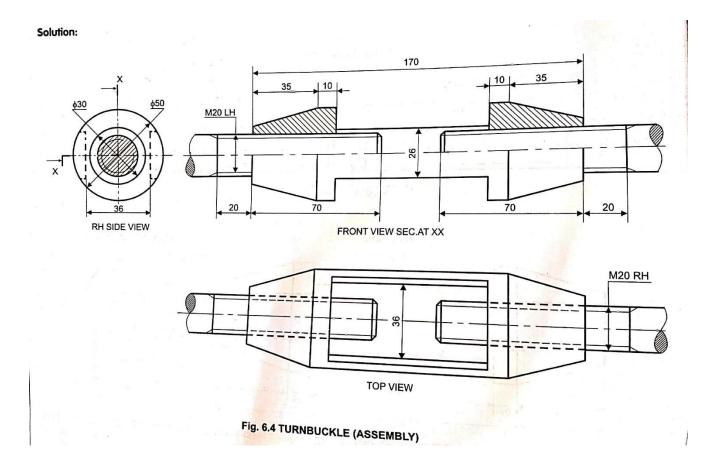
<u>ANSWERS – MULTIPLE CHOICE QUESTIONS</u>

- 1. C) Tie Rod joint
- 2. C) Make a leak proof joint
- 3. b) 2
- 4. a) Flange
- 5. b) Turnbuckle

SOLUTIONS FOR DRAWINGS

1.





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