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B.Tech.(ANE) (Sem.-3)
MACHINE DRAWING
Subject Code: ME-207
M.Code: 54026

Time: 4 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer briefly:

- a. Draw and name five type of lines used with machine drawing.
- b. What are fasteners? What is its application?
- c. Name any three types of bearings.
- d. What is the application of cotter joint?
- e. Name any four boiler mountings with their application.
- f. What is the function of blow off cock?
- g. Explain the importance of sectional joints.
- h. Draw the view of connecting rod and explain its importance.
- i. Draw any two type of welded joint.
- j. Name any two type of couplings and explain its application.

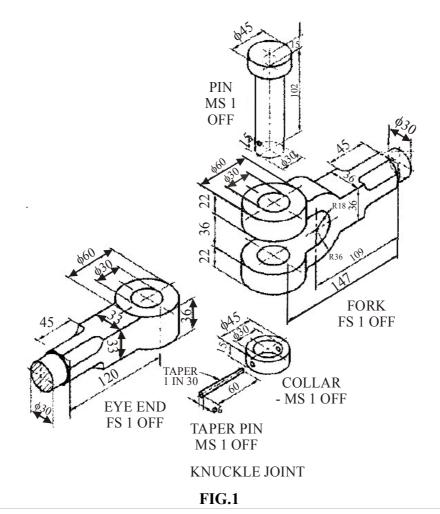


SECTION-B

- 2. Draw the hexagonal nut and bolt assembly with top side and front view with appropriate proportions with nut diameter.
- 3. Enlist and draw the standard machine symbols and explain their importance.
- 4. Draw the free hand front view of protected type flange coupling.
- 5. What is computer aided drafting? Explain its importance in detail.
- 6. Discuss the following commands used in Auto-CAD: Explode, Mirror, Chspace and Mirror.

SECTION-C

7. Figure 1 shows the detail of a knuckle joint. Assemble the given components and draw the front view and top view of assembly.



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8. Figure 2 shows the detail of a universal coupling. Assemble the given components and draw the front view and top view of assembly.

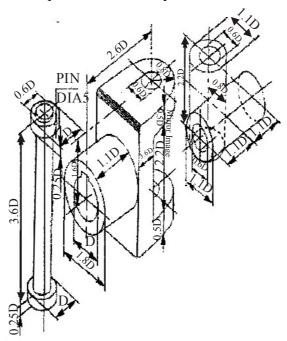


FIG.2 UNIVERSAL COUPLING

9. Figure 3 shows the detail of a sleeve and cotter joint. Assemble the given components and draw the front view and top view of assembly.

SLEEVE AND COTTER JOINT

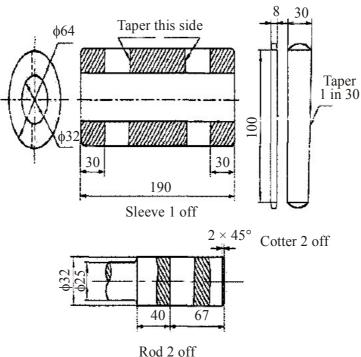


FIG.3 SLEEVE AND COTTER JOINT

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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