Roll No. Total No. of Questions : 09] [Tot

[Total No. of Pages : 04

B.Tech. (Sem. -3rd)

MACHINE DRAWING

SUBJECT CODE : ME – 207 Paper ID : [A0804]

[Note : Please fill subject code and paper ID on OMR]

Time : 04 Hours

Maximum Marks : 60

- Instruction to Candidates:
- 1) Section A is **Compulsory**.
- 2) Attempt any **Four** questions from Section B.
- 3) Attempt any **Two** questions from Section C.

Section – A

$$(10 \times 2 = 20)$$

Q1) a) Differentiate between left hand and right hand thread.

- b) Draw free hand proportionate sketch of ACME thread.
 - c) Name any four pipe fittings.
 - d) Define the terms -Major Diameter and Minor diameter for a bolt.
 - e) Name two types of keys which essentially need to be assemble on the shaft before fitting the hub.
 - f) Draw the symbols for the following welded joints along with the illustrations.
 - Square Butt Weld Seam Weld
 - g) Discuss the use of Eccentric in a steam engine.
 - h) Define the following terms as related to riveted joints.
 Margin Back Pitch
 - i) What is the use of component named "Feather" in tail stock assembly?
 - j) Which type of thread is used in Screw jack applications and why?

Section – B

$$(4 \times 5 = 20)$$

- **Q2**) Draw free hand proportionate neat sketches for the following
 - (a) Use of Stud for connecting two plates.
 - (b) Hoop Foundation Bolt
- **Q3**) Draw Plan of single riveted butt joint (single cover) for connecting two plates of thickness 10 mm. Use appropriate empirical relations and show at least 2 rivet heads along each row of rivets. Use Pan head rivets in the joint.
- Q4) Figure 1 shows the details of Sleeve and Cotter Joint. Assemble the given parts and draw the front view of assembly. Assume 1 in 40 taper on the cotter.
- Q5) Figure 2 shows the details of Socket and Spigot Pipe Joint. Assemble the given parts and draw the full sectional front view of assembly.
- *Q6*) Figure 3 shows the details of Universal Coupling. Assemble the given parts and draw the front view of assembly.

Section - C

 $(2 \times 10 = 20)$

- Q7) Figure 4 shows the details of Angular Plummer Block. Assemble the given components and draw the full sectional front view of assembly.
- **Q8**) Figure 5 shows the details of Machine Vice. Assemble the given components and draw the full sectional front view of assembly.
- Q9) Figure 6 shows the details of 75 mm steam stop valve. Assemble the given components and draw the full sectional front view of assembly.

J - 1016

P.T.O.

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