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Roll No.

Total No. of Pages : 05

Total No. of Questions : 09

B.Tech. (AE)/(ANE)/(IE)(AII)/(ME) (Sem.-3) MACHINE DRAWING Subject Code : ME-207 Paper ID : [A0804]

Time : 4 Hrs.

Max. Marks : 60

CO

INSTRUCTION TO CANDIDATES :

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

SECTION-A

- 1. Write briefly :
 - (a) What is caulking and fullering ?
 - (b) Explain working mechanism of safety valve in boilers.
 - (c) What are advantages of multi start threads
 - (d) What is practical application of Oldham coupling ?
 - (e) What is union joint ?
 - (f) Draw symbols for (i) convex double-V butt joint (ii) Filler weld.
 - (g) How external threads are represented in sectioning ?
 - (h) What do you understand by standard tolerances ?
 - (i) Draw following types of lines : (i) cutting plane line (ii) centre line.
 - (j) What is IS : 296 code ?

[M - 54026]

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SECTION-B

- 2. Explain different methods of dimensioning with the help of figures.
- 3. Draw free hand sketch of unprotected type flange coupling.
- 4. Draw free hand sketch of a double riveted zig-zag butt joint with one cover strap. Represent pitch of the rivets in terms of diameter of the rivets and diameter if rivets in terms of thickness of the plate.
- 5. Draw profile of metric threads by taking pitch of 20 mm. Represent calculations and show dimensions on the drawing.
- 6. What are the advantages of computer aided drawing over the manual drawing?

SECTION-C

- 7. Assemble the part of Screw jack given in Fig. 1 and draw the following views :
 - (a) Elevation (Right Half in Section)
 - (b) Top view
- 8. Assemble the parts of a **Stop valve** given in Fig. 2 and draw the following views :
 - (a) Elevation right half in section
 - (b) Plan
- 9. Assemble the part of a **Spring loaded safety valve** given in Fig. 3 and draw the full section front view.

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Fig. 2. 50 mm Stop Valve

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