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[Total No. of Pages: 07

B.Tech. (Sem. - 3rd)

MACHINE DRAWING

SUBJECT CODE: ME-207

Paper ID: [A0804]

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

Hours

Maximum Marks: 60

to Candidates:

Section - A is **Compulsory**.

Attempt any Four questions from Section - B.

Attempt any Two questions from Section - C.

Section - A

 $(10 \times 2 = 20)$

- Differentiate between pitch and lead for a triple start thread.
- Make a free hand sketch of the Metric thread profile giving important proportions.
- What is the use of Gib in 'Gib and Cotter Joint'?
- Draw the symbols along with the illustration for the following welded Joint.
 - (i) Fillet Weld (ii) Convex double-V Butt weld.
- Make a free hand sketch of the Rounded countersunk rivet head showing proportions in terms of shank dia D.
- f) Mention any two means for prevention of rotation of brasses in Plummer bearing block.
- What necessitates the use of expansion joint?
- **b)** Differentiate between "Caulking" and "Fullering" in context of rivets.
- i) Which coupling is used for connecting parallel and non-intersecting shafts?

 Draw free hand sketch for the same.
- i) Differentiate between Basic size and actual size.

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Section - B

 $(4 \times 5 = 2$

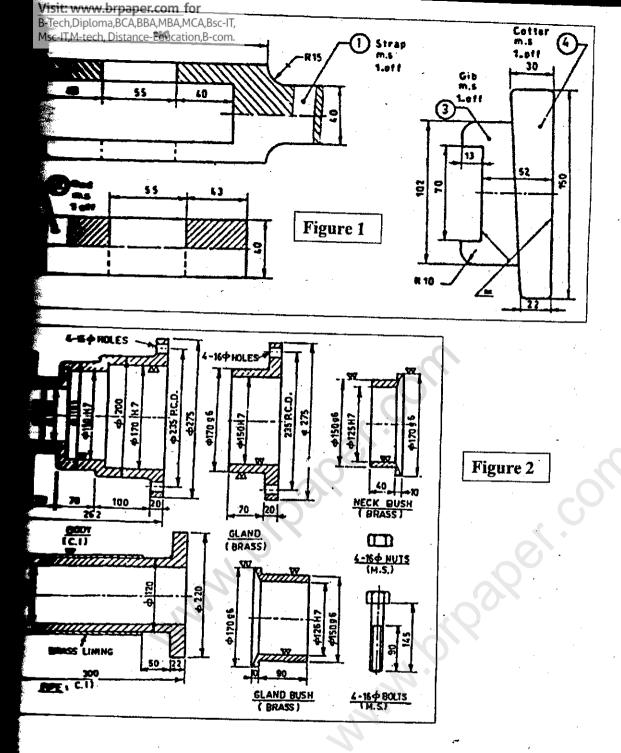
- Q2) Draw free hand proportionate and neat sketches for the following:
 - (a) Rag Foundation Bolt.
 - (b) Use of SAWN nut as locking device.
- Q3) Draw the top view of double riveted lap joint (Chain type) for connecting two plates of thickness 9 mm. Use relevant empirical relations and show least 3 rivet heads along each row of rivets.
- Q4) Figure 1 shows the details of Gib and cotter joint. Assemble the given par and draw the front view of assembly.
- Q5) Figure 2 shows the details of Expansion Pipe Joint. Assemble the given part and draw the full sectional front view of assembly.
- **Q6)** Figure 3 shows the details of Solid Flange Coupling. Assemble the give parts and draw the full sectional front view of assembly.

Section - C

 $(2\times10=2$

- Q7) Figure 4 shows the details of Plummer Block. Assembly the given component and draw the right half sectional front view of assembly.
- Q8) Figure 5 shows the details of Screw Jack. Assemble the given component and draw the right half sectional front view of assembly.
- Q9) Figure 6 shows the details of steam stop valve. Assemble the given component and draw the right half sectional front view of assembly.





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4.NUT
H10
L.OFF

3.BOLT
M.S
LOFF

1.5X45

Figure 3

2.SOCKET FLANGE
C.1
1.OFF

MMMIOIP

