

No. of Printed Pages : 4
Roll No.

220125

**2nd Sem / Agri, Automobile, Mechanical, Mechanical
(Tool & die Design)**

Subject : Mechanical Engineering Drawing - I

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Slotted nuts are (CO3)
a) Hexagonal b) Square
c) Octagonal d) Cylindrical
- Q.2 Weakest element in flange coupling (CO7)
a) Flange b) key
c) Bolt d) Shaft
- Q.3 For buttress thread the angle between the two flanks is _____ (CO2)
a) 55° b) 47.5°
c) 29° d) 45°

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Q.4 Define the Wooden Joints. (CO1)

Q.5 Angle between flanks of ACME threads is _____ (CO2)

Q.6 What is use of locking nuts? (CO4)

SECTION-B

Note: Short answer type questions. Attempt any three questions out of four questions. (3x6=18)

- Q.7 Draw proportionately the following. (CO4)
i) Castle nut ii) Split nut
- Q.8 Draw free hand sketch of Rag foundation bolt. (CO3)
- Q.9 Draw front view and top view of hexagonal nut, when internal diameter of nut is 20 mm. (CO3)
- Q.10 Draw in detail BSW thread. (CO2)

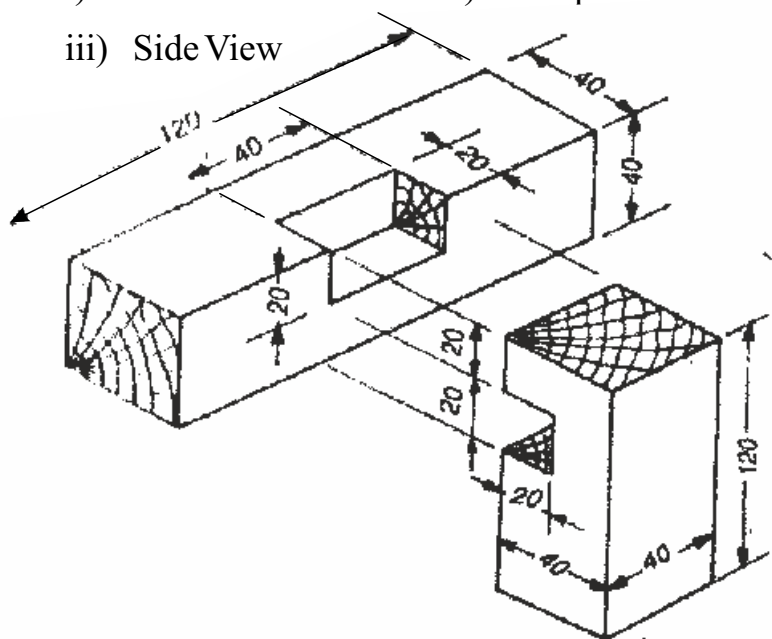
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Note: Long answer type questions. Attempt any three questions out of four questions. (3x12=36)

i) Front View ii) Top View

iii) Side View 

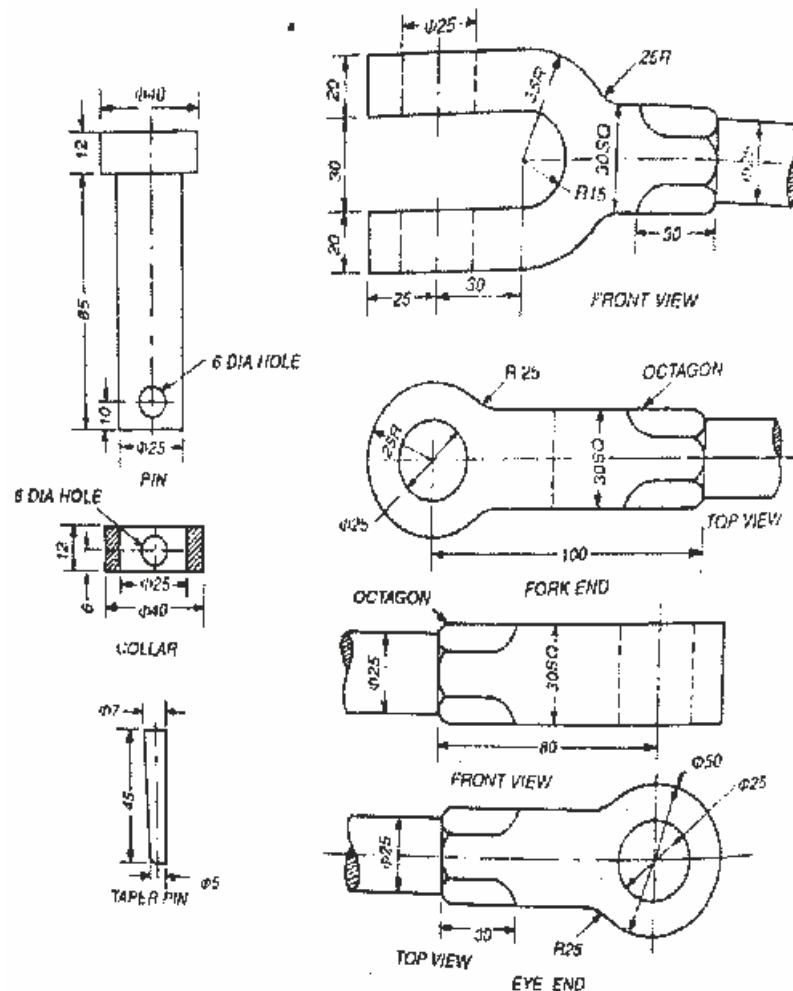


Q.12 Draw Sectional elevation & top view of double riveted double cover plate butt joint Zig-Zag type. Take plate thickness $t = 18$ mm. Draw at least 2-3 rivet heads in each row in plan. (CO6)

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Q.14 Details of a knuckle joint are given in fig.2. Draw the following views of it after assembling all its parts together to a suitable scale. (CO5)

a) Front elevation b) Top plan



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