

No. of Printed Pages : 4 181734/171734/121734  
Roll No. .... /031734/030133

3rd Sem. / Agri, Mech, Prod, T&D, CNC, CAD/CAM, GE, Metallurgy, Pack. Tech, Printmaking Tech., Mech (Ad. Manu. Tech.), Mech Engg (Fabrication Tech)

**Subject : Mechanical Engineering Drawing**

Time : 3 Hrs. M.M. : 100

**SECTION-A**

**Note:** Very Short Answer type questions. Attempt any 10 parts out of twelve parts. (10x2=20)

- Q.1 a) What is standardization (CO1)  
b) Define unilateral limit. (CO2)  
c) What are types of fit? (CO1)  
d) Describe screw jack. (CO4)  
e) Write the function of universal coupling. (CO3)  
f) Name different parts of Oldham's coupling. (CO3)  
g) Write the applications of ball bearings. (CO2)  
h) What is material of pulley? (CO2)  
i) Write the advantages of plastic pipes. (CO2)

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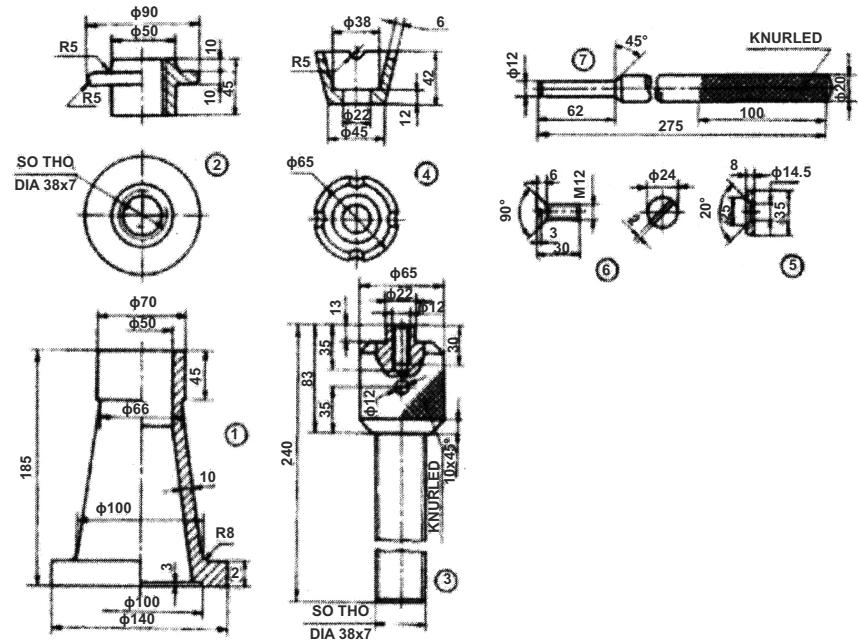
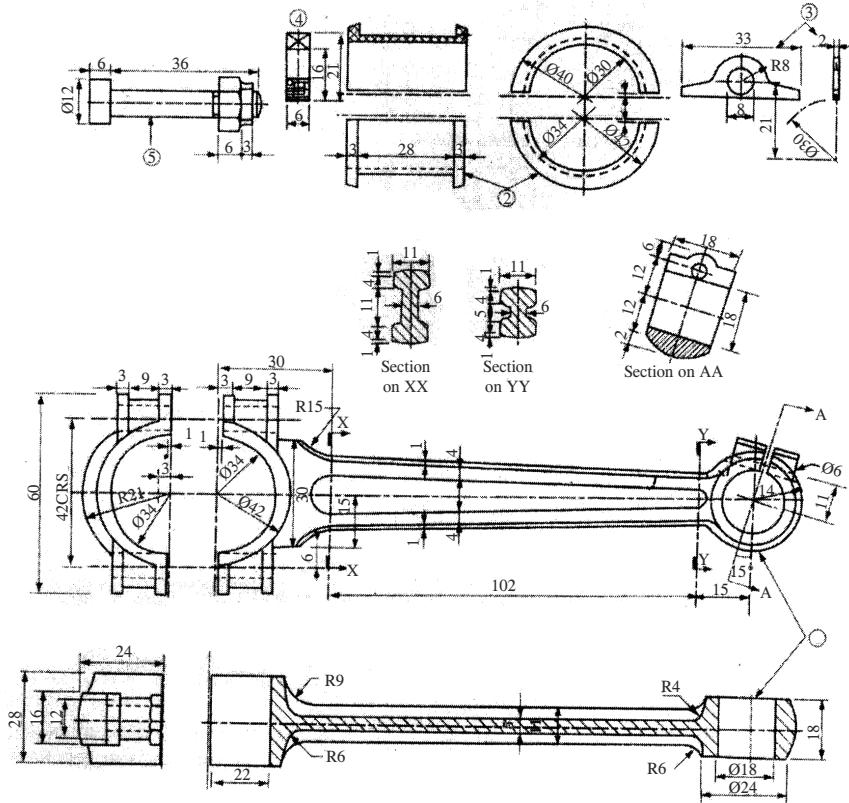
- j) What is the function of tool holder in lathe machine? (CO3)  
k) What is the material of shim in connecting rod? (CO5)  
l) Define module and pressure angle for a gear. (CO6)

**SECTION-B**

**Note:** Long answer type questions. Attempt any four questions out of five questions. (20x4=80)

- Q.2 Sketch free hand two views of foot step bearing. (CO2)  
Q.3 Sketch free hand any two view of flanges pipe joint. Front view is compulsory. (CO2)  
Q.4 Figure below shows the detail of a connecting rod of an I.C engine. Assemble the parts and draw the following views. Also give the bill of material.  
a) Front view full in section  
b) Left side view

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Q.4 Figure below shows the detail of a screw jack. Assemble the parts and draw the following views. Also give the bill of material. (Co4)

- Front view full in section
- Left side view.

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