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Roll No. ....

MSII 121734/031734

# **3rd Sem. / Mech. Engg. (MSIL)**

## **Subject : Machine 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 i) Define standardization.  
ii) Define clearance.  
iii) Define interference fit.  
iv) Describe hydraulic joint.  
v) Define hatching.  
vi) What is function of a drilling jig?  
vii) Enlist the main parts of a machine vice.  
viii) Name different parts of universal coupling.  
ix) What is function of a piston?  
x) Describe connecting rod.

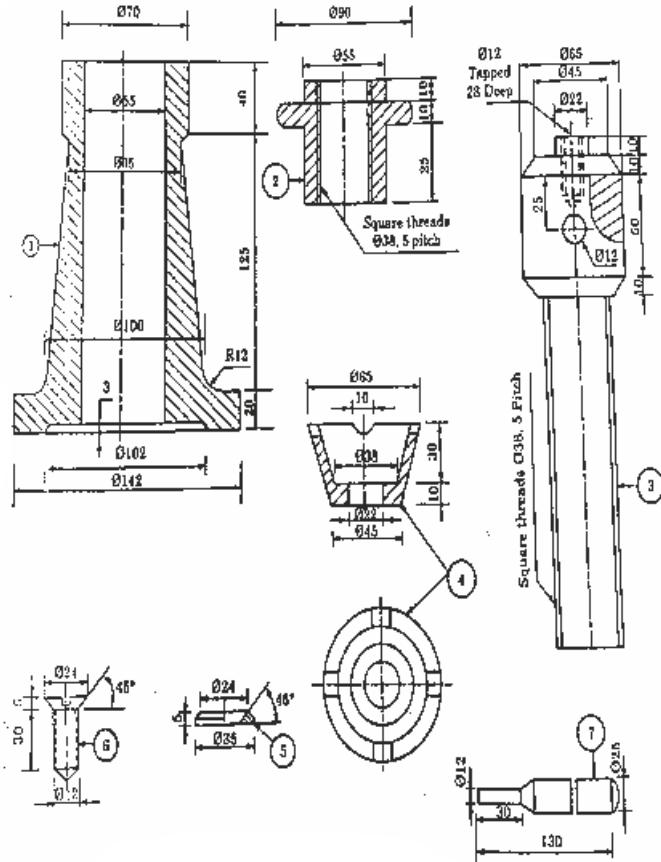
- xi) What is material of tommy bar?
- xii) What material is used in jig plate of a drilling jig?

## SECTION-B

**Note:** Attempt any four parts

$$4 \times 20 = 80$$

- Q.2 Sketch free hand, proportional sketch of universal coupling.
- Q.3 Sketch free hand any two views of flanged pipe joint protected type. Front view is compulsory.
- Q.4 Sketch free hand two views of bush Bearing.
- Q.5 Fig. No. 1 given below shows the detail of a screw jack. Draw the following views first angle projections method:
  - i) Sectional front view
  - ii) Front view
  - iii) Top view



- Q.6 Figure No. 2 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.