

**MECHANICAL ENGINEERING DRAWING-I**  
**3<sup>rd</sup> Exam/Mech./9053/Feb'2021**  
**(For 2018 batch onwards)**

**Duration: 1.15Hrs.**

**M.Marks:25**

**Note: If any dimensions missing or not clear assume proper value for the same.**

**Attempt any one question.**

**1x25=25**

- Q1.** A vertical cylinder of diameter 60mm and height 100mm is resting on the h.p on its base. It is completely penetrated by another cylinder of diameter 45mm and length 120mm with their axis bisecting each other at right angle. The axis of the cylinder is parallel to both hp and vp . Draw the projections showing the curves of penetration.
- Q2.** Detail of universal joint is given below in figure-1. Assemble the parts and draw the following views of assembly.
- a) Front view of assembly full in section      b) Top view      c) Side view
- Q3.** The figure-II shows detail of expansion pipe joint.
- Assemble the parts together and draw
- a) front view full in section      b) End view



