

## **SECTION-B**

**Note:** Attempt all questions. (2x30=60)

- Q.8 a) Explain the design procedure of a upsetting die forging for a simple component with help of neat sketch.
- b) Write the various factors which decide the size, location and number of ejector pin.
- Q.9 a) Explain in detail hot chamber die casting machine with neat sketch.
- b) Write the general design considerations in product design for die casting.

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**6th Sem / Branch : T&D**  
**Sub. : Forging & Die casting Dies-Design & Drawing**

Time : 3Hrs.

M.M. : 100

## **SECTION-A**

**Note:** Attempt any four questions out of seven questions.

(4x10=40)

- Q.1 Explain centrifugal casting process with neat diagram. Also explain its applications & advantages.
- Q.2 Explain die casting machines parts and their functions with neat sketch.
- Q.3 Explain rack and pinion type mould with neat diagram.
- Q.4 Explain forging hammer with neat diagram.
- Q.5 Explain various types of forging machines.
- Q.6 Explain various process of forging. Write general features of a forging die.
- Q.7 Explain various safety factors considered in handling forging tools.