

### Section-B

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

- Q.8 a) Explain the design considerations for a die casting machines and its component with help of neat sketch.
- b) Explain the following terms with neat diagrams for a die:
- i) Ejector return mechanism
  - ii) Locking unit
  - iii) Location of gates
- Q.9 a) Write about the construction & design of the forging tools.
- b) Explain the steps of forging a hexagonal nut from a cylindrical bar stock with neat diagram.

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**6th Sem / Mech. Engg. T & D**  
**Sub : Forging & Die Casting dies**  
**Design & Drawing**

**Time : 3 Hrs.**

**M.M. : 100**

### SECTION-A

**Note:** Attempt any Four questions out of Seven Questions. (4x10=40)

- Q.1 Explain with neat sketch pressure die casting process.
- Q.2 Explain the classification and method of specification of die casting machines.
- Q.3 Write short note on (a) Die Lubricants (b) Mould release agents.
- Q.4 Explain various types of forging equipment and their use.
- Q.5 Explain various types of forging machines. Write specification of any forging machine.
- Q.6 Explain sprue and gate design for forging dies.
- Q.7 Explain handling of material and dies.