

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:
- Ejector return mechanism
 - Locking unit
 - 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.

No. of Printed Pages : 2

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181863/121863/031862

**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.