

SECTION-C

Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Discuss in detail the components produced by forging process.
- Q.4 Discuss the various types of pressure die casting and its features.
- Q.5 What is the difference between closed & open die forging process. Where it is used?
- Q.6 What is ejector return mechanism & cooling methods.
- Q.7 Discuss the types & characteristics of lubricants. What is the need of lubricants discuss in detail.

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6th Sem. / T & D

Subject : Forging and Casting Dies-Design & Drawing

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) Define vacuum casting.
- b) Functions of ejection unit.
- c) What is centrifugal casting?
- d) What is mould release agent?
- e) What is book mould?
- f) Define ejection unit.
- g) Limitations of toughness & ductility.
- h) Use of mould release agent.
- i) What is cold forging?

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- j) Give names of lubricants used.
- k) Define injection unit.
- l) Define casting.
- m) Define drop forging.
- n) Define runner.
- o) Define metal stamping die.
- p) What is forging?
- q) Use of ejector pins.
- r) Define furnace.

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) Discuss the need of forging.
 - ii) Write about the characteristics of forging equipments.

- iii) Classifications of die casting material.
- iv) Different features of die casting machines.
- v) What is the use of runners & risers in casting?
- vi) Write the forging defects.
- vii) Difference between side gating & bottom gating.
- viii) Advantages of the gravity die casting.
- ix) Write the cooling agents used for pressure die casting.
- x) Importance of edge formation.
- xi) What are the disadvantages of gravity die casting?
- xii) Applications of forging.
- xiii) Write the types of forging machines used.
- xiv) Limitations of residual stresses in forgings.
- xv) Write the working of injection unit.