

- Q.26 What are various cooling methods used in die casting?
- Q.27 Explain Gating formula.
- Q.28 Define rack and pinion mould.
- Q.29 Explain various forging methods.
- Q.30 Explain and draw closed die press forging.
- Q.31 Explain the functions of various components used in closed die hammer forging.
- Q.32 Write the various methods used for the storage of forging dies tools.
- Q.33 Explain the procedure of maintenance for the die casting dies.
- Q.34 Explain the procedure of open die forging.
- Q.35 What is the role of bender in forging.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the design consideration of blocker and edger.
- Q.37 Explain Cupola furnace with the help of neat and clean sketch.
- Q.38 Explain various types of forging machines in detail.

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6th Sem / T&D
Subject:- Forging and Casting Dies-Design & Drawing

Time : 3Hrs. M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Injection Molding is the ideal method for processing
- a) Plastics b) Thermoplastics
 - c) Thermosetting Plastic d) nonferrous material
- Q.2 In order to generate a casting with an internal surface which part is typically used in a casting operation.
- a) Chaplet b) Riser
 - c) Core d) Pattern
- Q.3 In which Casting operation Expandable pattern is used
- a) Sand b) Investment Casting
 - c) Ferrous d) Non ferrous
- Q.4 In centrifugal casting method core is used
- a) Sand b) No
 - c) Ferrous d) Non ferrous
- Q.5 The hot chambered die casting method is used to cast
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- a) Brass
 - b) Aluminium
 - c) Both (a) & (b)
 - d) Alloy of lead, Tin and Zinc

- Q.6 Which of the following casting process produces the product with a better surface finish /
 a) Sand Casting b) Hot die Casting
 c) Investment Casting d) Cold die casting
- Q.7 Which one of the following is the most suitable advantage of forging technique?
 a) Cost is less
 b) Unskilled worker is required
 c) Tough components are produced
 d) All of the above
- Q.8 The chief advantage of die casting is
 a) Possibility of incorporating thick sections in small castings
 b) Casting of inserts is possible
 c) Wide tolerances are possible
 d) High production rate are possible
- Q.9 Low pressure casting is a type of
 a) Semi permanent casting process
 b) Temporary mould casting process
 c) Expandable mould casting process
 d) Permanent mould casting process
- Q.10 Which of the following processes induce more stress in the metal
 a) Hot rolling b) Forging
 c) Turning d) Extrusion

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 What kind of mould is used in investment casting.
 Q.12 What are the examples of the components made from vacuum casting.
 Q.13 Define book type mould.
 Q.14 What is the purpose of riser in casting.
 Q.15 List any two allowances in casting.
 Q.16 Write any two pattern materials
 Q.17 Write any two components produced by forging.
 Q.18 Define drop forging.
 Q.19 What is open die forging.
 Q.20 Name any two forging tools.

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 What is the difference between gravity die casting and pressure die casting?
 Q.22 Define Cold chamber die casting with the help of diagram.
 Q.23 Explain the function of injector unit in hot chamber die casting with neat sketch.
 Q.24 Define centrifugal casting and its types.
 Q.25 Draw and explain locking unit used in die casting machines.