

- 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
a) Brass
b) Aluminium
c) Both (a) & (b)
d) Alloy of led, Tin and Zinc

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