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221861

Roll No.

6th Sem.

Branch : Mechanical Engg. (Tool & Die Design)

Sub. : Forging and Casting Dies - Design and Drawing

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple type Questions. All Questions are compulsory. (6x1=6)

- Q.1 Upset forging is also known as _____. (CO1)
a) Open die forging b) Closed forging
c) Impression die forging d) Machine forging
- Q.2 Cast iron cannot be forged because (CO1)
a) It is brittle
b) It is of high compressive strength
c) It has impurities
d) All of the above
- Q.3 The process of shaping the metal by intermittent blows is known as (CO2)
a) Rolling b) Drawing
c) Forging d) Extrusion
- Q.4 In cold chamber die casting, the molten metal is forced in to cavities by (CO3)
a) Steam b) Compressed air
c) Hydraulic pressure d) None of the above

- Q.5 The method used for casting of non-ferrous metals is (CO4)
- a) Centrifugal casting b) Sand casting
- c) Die casting d) None of the above
- Q.6 Hollow symmetrical and unsymmetrical parts are cast by (CO5)
- a) Die casting b) Centrifugal casting
- c) Gravity casting d) Permanent mould casting

SECTION-B

Note: Objective/Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 Open die forging is also known as _____. (CO2)
- Q.8 _____ melting point alloys are generally cast hot chamber die casting. (CO3)
- Q.9 Centrifugal casting is a type of _____ mould casting. (CO3)
- Q.10 Sand blasting is used for _____. (CO4)
- Q.11 Uneven wall thickness is produced by _____ casting. (CO4)
- Q.12 _____ Parts are produced by semi-centrifugal casting. (CO5)

SECTION-C

Note: Short answer type Questions. Attempt any eight questions out of ten Questions. (8x4=32)

- Q.13 Write a short note on Machine forging. (CO1)
- Q.14 Explain, in brief, close die forging. (CO1)

- Q.15 Write the disadvantages of close die forging. (CO2)
- Q.16 Write the advantages of open die forging. (CO2)
- Q.17 Name various die casting machines. (CO3)
- Q.18 Write the applications of true centrifugal die casting. (CO3)
- Q.19 Explain, in brief, pit furnace. (CO4)
- Q.20 How are casting cleaned? Explain in brief. (CO4)
- Q.21 Write the advantages of die casting. (CO5)
- Q.22 Write the functions of die forging machine. (CO5)

SECTION-D

Note: Long answer questions. Attempt any two questions out of three Questions. (2x8=16)

- Q.23 Explain open die forging with the help of neat sketch. (CO1)
- Q.24 Design and drawing of pressure die casting. (CO3)
- Q.25 Explain with neat sketch, construction and working of cupola furnace. (CO5)