

- Q.27 What are the limitations of injection moulding?
- Q.28 Explain closed die hammer.
- Q.29 Differentiate between single cavity and multi-cavity moulds.
- Q.30 Write a short note on compression moulding.
- Q.31 Explain the design of a simple forging die.
- Q.32 Differentiate between injection and compression moulding.
- Q.33 Discuss the principle and working of moulding machine.
- Q.34 Explain the heat treatment of tools.
- Q.35 Write down the materials used for press tools.

Section-D

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

- Q.36 Write briefly on maintenance of dies and safety in handling of cutting tools.
- Q.37 Compare the procedure and merits/demerits of metal cutting and forging processes.
- Q.38 Draw and explain compound and progressive dies.
- b)

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Prod. Subject : Tool Engineering-2

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 In tool signature, nose radius is indicated
a) In the middle b) Not indicated
c) In the beginning d) At the end
- Q.2 Bolt heads are manufactured by :
a) Swagging b) Upset forging
c) Roll forging d) Tumbling
- Q.3 How the injection moulding die is cooled
a) Oil b) Water
c) Air d) Contact with cold surface
- Q.4 The bottles from thermo plastic material are made by _____
a) Compression moulding
b) Injection moulding
c) Extrusion
d) Blow moulding

- Q.5 Which of the following materials is not made by injection moulding
- a) Nuts b) Tubes
- c) Car handles d) Electrical fittings
- Q.6 What is the maximum temperature allowed to be given to the injection moulding.
- a) 300 degree C b) 600 degree C
- c) 1000 degree C d) 50 degree C
- Q.7 What is draft allowance also known as _____
- a) Shake allowance
- b) Taper allowance
- c) Contraction allowance
- d) Rapping allowance
- Q.8 Which of the following is a type of press _____
- a) Hydraulic press b) Metal press
- c) Grass press d) All of the above
- Q.9 The material for punch is _____
- a) SS300 b) S300S
- c) SS400 d) SS3000
- Q.10 Vice is used to _____
- a) Cut the workpiece
- b) Hold the tool
- c) Hold the workpiece
- D) All of the above

Section B

Note: Objective types Questions. All Questions are compulsory. (10x1=10)

- Q.11 Plastic can be shaped into _____
- Q.12 Plastics are principal ingredients of _____.
- Q.13 Adding of carbon affects _____ of a tool.
- Q.14 Forging is the process of _____.
- Q.15 A blow hole occurs _____
- Q.16 Hardness is the resistance to _____.
- Q.17 Two types of hammers are _____ and _____.
- Q.18 The required temperature for forging of steel is _____.
- Q.19 Punching tools are made up of _____ material.
- Q.20 Two forging equipments are _____ and _____.

Section C

Note: Short answer type Questions. Attempt any twelve Questions out of fifteen Questions. (12x5=60)

- Q.21 Explain the types of presses.
- Q.22 Explain the factors governing the Clearance between die and punch.
- Q.23 Explain Blanking die with diagram.
- Q.24 Give the considerations for stock strip layout.
- Q.25 Write a short note on piercing die.
- Q.26 What are the considerations for selection of die material?