

- 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 inkjection 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 handing 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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Roll No.....

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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?