

- Q.26 Explain closed die hammer. (CO2)  
 Q.27 Explain multicavity moulds. (CO3)  
 Q.28 Write a short note on the materials used for press tools. (CO4)  
 Q.29 Explain the procedure for the heat treatment of dies. (CO4)  
 Q.30 Write the name of various processes of forging. (CO2)  
 Q.31 Write the difference between blanking die and punching die. (CO1)  
 Q.32 Explain stock strip layout considerations. (CO1)  
 Q.33 Discuss safety precautions in handing and storage of dies and cutting tools. (CO5)  
 Q.34 Explain principle of operation of moulding machine. (CO3)  
 Q.35 Explain cutting forces calculation. (CO1)

#### **SECTION-D**

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

- Q.36 Explain the working of compression moulding with neat sketch. (CO3)  
 Q.37 Explain different types of forging dies. (CO2)  
 Q.38 Explain various press tool components in details. (CO1)

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**6th Sem / Branch : Production Engg.  
Sub. : Tool Engg.-II**

Time : 3Hrs. M.M. : 100

#### **SECTION-A**

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

- Q.1 As the clearance increases, the punch force required  
     a) Decreases  
     b) Increases  
     c) Remains the same  
     d) First increases and then decreases  
 Q.2 Which of the following product(s) is (are) made by compression moulding. (CO3)  
     a) Electric Plugs  
     b) Pot handles  
     c) Dinnerware plates  
     d) All of the above  
 Q.3 Which of the following is not a prime requirement of tool material (CO4)  
     a) It should have good machinability  
     b) Is should have low melting point  
     c) It should have low erosion rate  
     d) None of the options

- Q.4 Which die is mostly used to produce the washer  
(CO1)
- a) Blanking die
  - c) Progressive die
  - b) Piercing die
  - d) Compound die
- Q.5 What is forging  
(CO2)
- a) Hammering a heated metal
  - b) A casting process
  - c) An electronic component
  - d) A machining process
- Q.6 Minimum temperature allowed to be given to the injection mouldings is  
(CO3)
- a)  $120^{\circ}\text{C}$
  - c)  $140^{\circ}\text{C}$
  - b)  $130^{\circ}\text{C}$
  - d)  $150^{\circ}\text{C}$
- Q.7 Which operation is used for making hole in a work piece with the help of die  
(CO1)
- a) Trimming
  - c) Drilling
  - b) Piercing
  - d) Boring
- Q.8 Bolt heads are manufactured by  
(CO2)
- a) Swagging
  - c) Tumbling
  - b) Roll forging
  - d) Upset forging
- Q.9 How is the die used in injection moulding cooled  
(CO3)
- a) Oil
  - b) Air
  - c) Water
  - d) Contact with cold surface
- Q.10 Removing the pieces from the edge in shearing operation is known as  
(CO1)

(2)

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- a) Perforating
- c) Notching
- b) Parting
- d) Lancing

### **SECTION-B**

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Define cutting tool.  
(CO1)
- Q.12 Write any two applications of injection moulding.  
(CO3)
- Q.13 Define squeezing.  
(CO1)
- Q.14 Define compression moulds.  
(CO3)
- Q.15 Define clearance.  
(CO1)
- Q.16 Define open die forging.  
(CO2)
- Q.17 Define bending die.  
(CO1)
- Q.18 What is preventive maintenance.  
(CO5)
- Q.19 Write the name of any two forging equipments.  
(CO2)
- Q.20 Define piercing.  
(CO1)

### **SECTION-C**

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Explain design of simple forging die.  
(CO2)
- Q.22 Explain various factors governing the punch and die clearance.  
(CO1)
- Q.23 Write a short note on the maintenance of dies.  
(CO5)
- Q.24 Explain the materials used in compression moulding.  
(CO3)
- Q.25 Write the name of different types of presses.  
(CO1)

(3)

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