

- Q.6 Blanking and Piercing operations can be performed simultaneously in
- Simple die
 - Compound die
 - Non compressive die
 - Combination die
- Q.7 Spring back during the sheet metal operation is caused because of the
- Release of stored energy during elastic and plastic deformation
 - Release of stored energy during plastic deformation
 - Release of stored energy during elastic deformation
 - Excess energy that was utilized during the formatting process
- Q.8 Which of the following is not correct about fixtures ?
- It is used to hold the work
 - It is used to position the work the work
 - It assures high accuracy of parts
 - It is used to guide the cutting tool
- Q.9 What is the primary goal of estimation methods in tool design and application ?
- To increase production inefficiencies
 - To reduce material costs
 - To optimize production processes
 - To complicate manufacturing operations
- Q.10 Which is the type of strip layout
- Straight layout
 - Angular layout
 - Staggered layout
 - All of the above

(2)

202025

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define shut height.
- Q.12 The principle of shearing involves applying _____ force to cut through the material .
- Q.13 The 3-2-1 pin principles of location ensures accurate and repeatable positioning of work _____
- Q.14 Describe stripping and ejection.
- Q.15 Name two non-cutting operations on press tool.
- Q.16 What is plastic deformation ?
- Q.17 Define minimum material condition .
- Q.18 Name any two-material handling equipments.
- Q.19 The purpose of preparing a bill of material is to estimate _____ requirements.
- Q.20 The construction of non-cutting die involves principles such as bending, drawing, forming and _____.

SECTION-C

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

- Q.21 Show the various parts of a press tool with diagram .
- Q.22 Write a sort note on integrated operations .
- Q.23 Explain the working of progressive die.
- Q.24 Briefly explain the application of press tool in mass production .
- Q.25 Explain the significance die and punch clearance in press tool operations.
- Q.26 What is the principle behind shearing operations in press tools ?

(3)

202025