

- Q.26 Write a short note on strip layout.
- Q.27 What are the points to be considered while selecting press or press tool operations.
- Q.28 Explain grain direction with diagram.
- Q.29 Explain the working principle of presses.
- Q.30 Write a short note on scrap handling equipments.
- Q.31 Explain estimation of machine hours through process planning.
- Q.32 Give standard checklist for maintenance of press tools.
- Q.33 Write a short note on classification of tool material.
- Q.34 Explain various components of fixtures.
- Q.35 What are the design parameters and tolerances for plain gauges.

SECTION-D

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

- Q.36 Enlist cutting operations which can be performed on Press Tool. Explain any two in detail with diagram.
- Q.37 What is stripping force? Explain important factors which affect stripping force.
- Q.38 Explain the construction of open jig and closed jig with diagram.

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Advance Diploma in Tool and Die Making Subject:- Tool Design Theory - I (Press Tools, Jigs & Fixtures)

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Presses are generally employed in _____ production of _____ components.
- a) mass, identical b) mass dissimilar
c) job, identical d) job, dissimilar
- Q.2 Which die is used for more than one cutting operation per stroke?
- a) Blanking Die b) Piercing Die
c) Compound Die d) Progressive Die
- Q.3 Which of the following helps in obtaining correct alignment of the punch holder with die shoe
- a) guide posts b) stops
c) pilot d) none
- Q.4 Tool life is most affected by machine _____
- a) cutting speed
b) tool geometry
c) feed and depth
d) not using coolant and lubricant

- Q.5 Shearing the sheet into two or more pieces is known as
- perforating
 - parting
 - notching
 - lancing
- Q.6 Which is the type of strip layout
- Straight layout
 - angular layout
 - staggered layout
 - all of above
- Q.7 In piercing operations the clearance is provided on
- die
 - punch
 - any other member
 - none of the above
- Q.8 A fixture does not
- Holds the workpiece
 - Locate the workpiece
 - Guide the tool
 - All of the above
- Q.9 Jigs are not used in
- Drilling
 - Reaming
 - Tapping
 - Milling
- Q.10 Which of the following is not correct about plain gauges?
- Used to check threaded portions
 - There is no scale in plain gauges
 - Indicates actual value of the inspected dimension
 - Can be used to check dimension of manufactured part

SECTION-B

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

- Q.11 Write use of sheet materials component.
- Q.12 Define clearance.
- Q.13 Name two non-cutting operations on press tool.
- Q.14 Name one of the operation of cutting of a flat sheet to the desired shape.
- Q.15 How the tool life can be increased?
- Q.16 Define shut height.
- Q.17 Name any two material handling equipments.
- Q.18 Write unit of machining time.
- Q.19 Define storage.
- Q.20 Write function of a fixture.

SECTION-C

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

- Q.21 Explain concept of sheet material components and give their applications.
- Q.22 Explain principle of shearing operation.
- Q.23 Show the various parts of a press tool with diagram.
- Q.24 Explain combination dies.
- Q.25 Write the steps performed in non cutting dies.