

- Q.28 Give process of developing an alternative conceptual design using data sheet and process sheet.
- Q.29 Write a short note on drawing norms and practices
- Q.30 Give the process of drawing of detail drawing with geometrical dimension.
- Q.31 Explain the handling procedure for process tool and components.
- Q.32 Enlist main features of CAD software
- Q.33 Explain the need and advantages of Jigs and Fixtures.
- Q.34 Explain different types of locating devices used for locating a work piece.
- Q.35 What are GO gauge and NO- Go gauge explain.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Describe die set. Explain the construction of a die set with neat diagram.
- Q.37 Explain the main parts of a blanking die with the help of diagram and write their functions also.
- Q.38 Explain with neat sketch various types of fixtures.

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**2nd Year / Branch : Advance Diploma in Tool
and Die Making**
**Subject:- Tool Design Practice-I (Press Tools,
Jigs & Fixtures)**

Time : 4 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 In which of the following type of die , a combination of cutting and some other operation can be performed at a single station?
- Cutting die
 - Forming die
 - Compound die
 - Combination die
- Q.2 Which of the following help in obtaining correct alignment of the punch holder with the die shoe?
- Guide posts
 - Stops
 - Pilot
 - None of the above
- Q.3 Designs are periodically modified to
- Improve product performance
 - Strive for zero-based rejection and waste
 - Make products easier and faster to manufacture
 - All of the mentioned
- Q.4 Which deviations are provided to a new ‘Go’ plug gauge from the nominal size?
- One positive deviation
 - One negative deviation
 - Two positive deviation
 - Two negative deviation

- Q.5 The total opening between the ram and the bed when the ram is in its extreme down position
 a) Stroke length b) Die space
 c) Shut height d) Press adjustment
- Q.6 Angular clearance provided on dies is of the the order of.....
 a) $.5^\circ$ to 10° b) 3° to 5°
 c) $.1/2^\circ$ to 1° d) $.0.1^\circ$ to 0.5°
- Q.7 Selection and placement is done using
 a) Cursor b) Shapes
 c) Textual d) Graphical
- Q.8 Understanding the Cartesian coordinate system will help the beginning drafter.....
 a) Control the accuracy of the drawing
 b) Produce a visible grid system
 c) Select a different text styles
 d) Choose various line types
- Q.9 Which of the following is not an output device?
 a) Monitor b) Touchscreen
 c) Printer d) Plotter
- Q.10 How jigs are in terms of weight compared to fixtures?
 a) Jigs are lighter than fixtures
 b) Jigs are heavier than fixtures
 c) Jigs are equal in weight to fixtures for same operation
 d) Cannot say

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Define press tool.
 Q.12 Describe standardization.
 Q.13 Describe strip layout
 Q.14 What is use of data book?
 Q.15 What is optional design?
 Q.16 What is tolerance?
 Q.17 Name a CAD software
 Q.18 Give full form of BIS
 Q.19 Describe material selection
 Q.20 Write use of limit gauge

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Write a short note on press tool construction
 Q.22 Enlist the factors considered to select a die set
 Q.23 Enlist the main factors influencing the strip layout
 Q.24 What is principle of blank development? Give the procedure of blank development
 Q.25 Explain the information which is given by process sheet and work sheet.
 Q.26 Explain the procedure for optimum selection of design parameters. What are main inputs required for deciding design parameter?
 Q.27 What is principle of conceptual design and give significance of evaluation of conceptual design.