

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Define press tool, explain in details the elements of press tools with diagram.
- Q.24 What is strip layout, also explain the feeding mechanism with guiding and locating devices.
- Q.25 What is die set, write the detail of feeding clamping and component of loading for die set.

No. of Printed Pages : 4

222025

Roll No. ....

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

Time : 3 Hrs.

M.M. : 60

### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Leaving a tab without removing any material is known as.
- a) Perforating                      b) Parting  
c) Notching                        d) Lancing
- Q.2 Which of the following materials is not suitable to be cast by a hot chamber die casting process.
- a) Lead                                b) Tin  
c) Aluminum                        d) Zinc
- Q.3 Punching the number of holes in a sheet is known as.
- a) Performing                      b) Drawing  
c) Half of the die                  d) Notching

Q.4 A fixture does not.

- a) Hold the workpiece
- b) Locate the workpiece
- c) Guide the tool
- d) All of them

Q.5 Name of the material used for the die.

- a) Grey Cast iron      b) Copper
- c) Aluminum      d) Carbide

Q.6 In auto CAD the 3-D commands on the modeling toolbar include.

- a) Sphere      b) Extrude
- c) Box      d) All of them

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Define Jig.

Q.8 Expand CAM.

Q.9 Full form of GD & T.

Q.10 What is shut height.

Q.11 Write two application of combination die.

Q.12 Name any two specification of press.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Write the work sheet principle of sheet material.

Q.14 Define CAM for manufacturing and development of press tool.

Q.15 Explain the geometrical relationship between component and punch.

Q.16 What is drawing, explain the function of different elements of drawing operation.

Q.17 Define blanking operation, how guiding elements are different from locating element.

Q.18 What is cutting operation, explain the principle of shearing operation.

Q.19 What do you understand by B.O.M. explain it with an example.

Q.20 Explain estimation method in tool design with its two application.

Q.21 Explain the GO & NOT - GO concept go limit gauges.

Q.22 What is cutting dies, explain in detail shaving operation.