

- Q.29 A shell having 40 mm diameter and 120 mm height with a wall thickness of 1mm is to be manufactured from 1.3 mm metallic sheet. Calculate the blank diameter.

Q.30 Explain working of progressive die with a neat sketch.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x25=50)

- Q.31 Assuming suitable data, design and correspondingly draw any progressive tool showing proportionate dimensions. Also explain the operations and their sequences.

Q.32 Draw and explain any piercing tool, with suitable dimensions.

Q.33 Assuming a progressive tool to perform two operations in one movement design and draw it showing suitable dimensions, clearances and angles.

No. of Printed Pages : 4 181832/121832/031832
Roll No.

3rd Sem / T&D, CNC (6th Sem), CAD/CAM (6th Sem)

Subject:- Press Tool - Design and Drawing

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 What should be the appropriate thickness of the metal sheet when it is used as a raw material for the sheet metal operation?

a) 1 cm to 5 cm b) 5 cm to 10 cm
c) 7.5 mm to 15 mm d) .4 mm to 6 mm

Q.2 Shearing the sheet into two or more piece is known as ?

a) Parting b) Punching
c) Blanking d) Notching

Q.3 Which of the following is a drawing operation?

a) Embossing b) Curling
c) Trimming d) All of the above

Q.4 What is the name of operation for making hole in a work piece with the help of die?

a) Trimming b) Drilling
c) piercing d) Boring

Q.5 Which of the following holds the punch in position?

a) Bolster plate b) Punch holder
c) Lower shoe d) Lipper shoe

- Q.6 _____ is the operation in which follow shape is form from of flat workpiece by mean of a point which cause the blank to flow into die cavity.
- Drawing
 - Punching
 - Blanking
 - None of the above
- Q.7 By which operation a cup is formed from a flat blank?
- Trimming
 - Drawing
 - Forming
 - Bending
- Q.8 In which of the following type(s) of press(es), clutch is used
- Direct drive press
 - Non geared or Flywheel driven press
 - Single geared drive press
 - All of the above
- Q.9 The scrap layout is decided by considering the following factors?
- Kind of material type and thickness of scrap strip
 - Minimum clearance need on the blanking
 - Effect of unbalanced force parallel to the press working force
 - All of the above
- Q.10 In blanking operation, the clearance is provided on the _____.
- Die
 - Punch
 - In both
 - None of these

(2) 181832/121832/031832

- ### SECTION-B
- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Press tools
 - Q.12 Application of press
 - Q.13 Shearing operations
 - Q.14 Forming
 - Q.15 Punch plate
 - Q.16 Die set
 - Q.17 Bending tool
 - Q.18 Cutting dies
 - Q.19 Cutting clearance
 - Q.20 Strip guiding

- ### SECTION-C
- Note:** Short answer type questions. Attempt any six questions out of ten questions. (6x5=30)
- Q.21 List various press tools and explain any one of them.
 - Q.22 Give a general specification parameters of a press.
 - Q.23 Describe strip guidance. Summarise the methods used for it.
 - Q.24 Explain the difference between embossing and coining with one example of each.
 - Q.25 Tabulate the difference between a shaving and trimming tool construction through their diagrams.
 - Q.26 List out advantages and limitation of compound tool
 - Q.27 What are the BIS standards for bottoms, top pillars?
 - Q.28 What is a clearance? Why is it important in shearing operation

(3) 181832/121832/031832