NETTUR TECHNICAL TRAINING FOUNDATION

DIPLOMA IN TOOL ENGINEERING & DIGITAL MANUFACTURING - CP01

IV SEMESTER REGULAR &SUPPLEMENTARY EXAMINATION – JULY 2023

Subject: Tool Design Drawing **Total Time: 3H**

Subject Code: CP01406 P **Total Marks: 70**

Time :15 min **Part A** **Marks:15**

1.0 FILL IN THE BLANKS **1*5=5**

1.1 For blank holding _____ slide of double action press is used .

1.2 _____ is the area available for mounting tools in the press.

1.3 The _____ consists off bottom plate, top plate, guide pillars and guide bushes

1.4 Diagonal pillar die set is used for _____ tool with rectangular working area

1.5 The process of forming an outward flange on parts is called _____ operation

2.0 CHOOSE THE CORRECT ANSWER **1*5=5**

2.1 The simplest way to correct spring back is _____

a)Over Bending b)Corner Setting c)Offset punch method d)Angular Punch relief **( )**

2.2 Thinning occurs in _____ layer

a)Neutral b)Inner c)Outer d)Shedder **( )**

2.3 Bend shape is achieved if the force is beyond _____

a)Plastic limit b)Elastic Limit c)Press Force d)Stress & Strain **( )**

2.4 Components from a compound tool will have

a)Burr on piercing side b)Burr on small side c)Burr on both side d)Burr on blanking side **( )**

2.5 Little or no metal deformation takes place in the blank area which forms the

a)Side wall of the cup b)Bottom of the cup c)Flange of the cup d)All of these **( )**

3.0 MATCH THE FOLLOWING **1*5=5**

	A		**B**
3.1	Shedder	a)	U-Bending
3.2	Pressure Pad	b)	Single Stage
3.3	Compound Tool	c)	Bending
3.4	Unit Stock	d)	Knock out mechanism
3.5	Pressure Brake	e)	Drawing Tool

3.1	3.2	3.3	3.4	3.5

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PART B **Time :2 Hr 45 min**

Marks:100(Scale down to 55)

1.0 Design a Compound tool with indirect knockout component given below

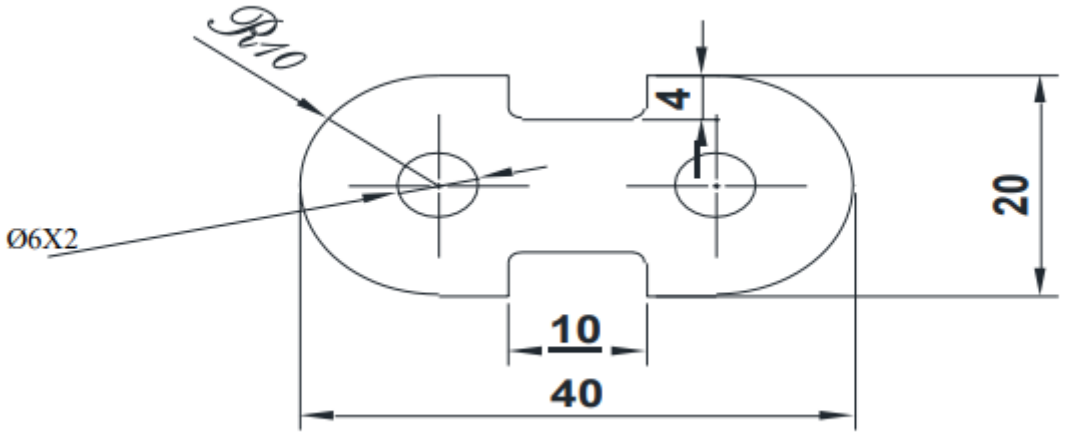
Given Data's

Material : MS

Sheet Thickness:1.0

Shear Strength: 360N/mm^2

All dimension in mm



Marks Distribution:

Function	50
Views	25
Bill Of Material	10
Quality of work	10
Time utilization	05