

NETTUR TECHNICAL TRAINING FOUNDATION
CP01 - DIPLOMA IN TOOL ENGINEERING & DIGITAL MANUFACTURING
III SEMESTER & SUPPLEMENTARY EXAMINATION-JAN 2023

SUBJECT: TOOL DESIGN DRAWING
SUBJECT CODE: CP01 3 13P

TOTAL MARKS: 70
TOTAL TIME: 3H

PART-A

MARKS: 15
TIME: 15 MIN
5 X 1 = 5

1.0 FILL IN THE BLANKS

- 1.1 A3 drawing sheet size is_____
- 1.2 NTS on a drawing refers to_____.
- 1.3 _____ is the Method of location can arrest 9 degrees of freedom.
- 1.4 Blanking die is hardened and tempered to_____HRC
- 1.5 M6 SHCS will have a head diameter of_____mm.

2.0 CHOOSE THE CORRECT ANSWER

5 X 1 = 5

- 2.1 The Hole sizes are maintained to_____tolerance. ()
 a) H7 b) h7 c) n6 d) p6
- 2.2 The_____positions the stock strip relation with die opening ()
 a) Stopper b) Stripper c) Pilot d) Shank
- 2.3 The punches are subjected to wear three times as fast as the_____. ()
 a) Die b) Stripper c) Dowel d) All the above
- 2.4 The second stage in shearing is _____ ()
 a) Penetration b) Plastic Deformation c) Elastic limit d) Fracture
- 2.5 Punch is the_____member in a tool. ()
 a) Male b) Supporting c) Female d) All the above

3.0 MATCH THE FOLLOWING

5 X 1 = 5

- | A | | B | |
|------------------|--|-----------------------|--|
| 3.1 V block | | a. Clamping | |
| 3.2 T bolt | | b. Alignment | |
| 3.3 Dowel | | c. Feed | |
| 3.4 Feeler Gauge | | d. Clearance checking | |
| 3.5 Strip | | e. Cylindrical work | |
| | | f. Plate jig | |

A	3.1	3.2	3.3	3.4	3.5
B					

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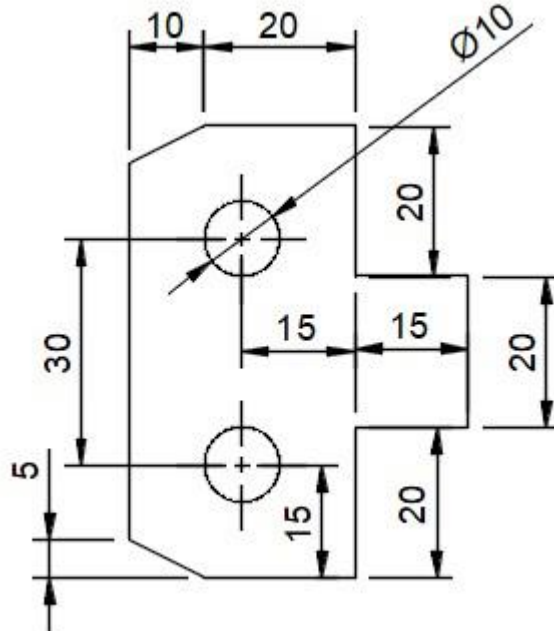
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TOTAL MARKS: 70
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MARKS: 100 (55)
TIME: 2H:45MIN

1. Design a progressive tool with travelling stripper for given component.

Provide all the necessary calculation and bill of material.



SHEET THICKNESS : 1mm
MATERIAL : MS
SHEAR STRENGTH : 360N/mm²

Distribution of marks

Function:	50
Views:	25
Calculation:	10
Bill of material:	10
Neatness:	05
TOTAL:	100