

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

SUBJECT: TOOL DESIGN DRAWING
SUBJECT CODE: CP01 05 07P

TOTAL MARKS: 70
TOTAL TIME: 3 HRS

PART-A

MARKS: 15
TIME: 15 MIN

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

- 1.1 For delayed action of splits, _____ mechanism is used
 1.2 The part of the feed system which freezes first is _____
 1.3 To avoid jetting _____ gate is used
 1.4 The splits must be operated _____ to avoid the opening of splits by gravity
 1.5 _____ are provided in the mould to allow trapped air to escape freely

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

2.1 Main Function of cold slug well is _____ ()
 a) To pull sprue b) Trap cold material c) Connect sprue to runner d) Eject feed System

2.2 Preheating of Thermoplastic is carried out to _____ ()
 a) Increase impact strength b) Decrease weld line c) Reduce shrinkage d) to remove moisture

2.3 Auto degating is done _____ ()
 a) Pin gate b) Ring gate c) Tab gate d) Submarine gate

2.4 Rest buttons are provided on _____ plate of the mould ()
 a) Top plate b) Core plate c) Bottom plate d) None

2.5 A two plate mould with stripper ejection is having _____ number of day light ()
 a) One b) Four c) Two d) Three

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

- | A | B | | | | |
|-----------------------|----------------------------|--|--|--|--|
| 3.1 Heel blocks | a. 10° to 25° | | | | |
| 3.2 Finger cam | b. Preforms | | | | |
| 3.3 Form pin | c. Spigot | | | | |
| 3.4 Avoid Moisture | d. Thermoset | | | | |
| 3.5 Compression Mould | e. Local undercut | | | | |
| | f. Space of ejector system | | | | |

A	3.1	3.2	3.3	3.4	3.5
B					

REG.NO.:

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V SEMESTER & SUPPLEMENTARY EXAMINATION- JAN 2023

SUBJECT: TOOL DESIGN DRAWING
SUBJECT CODE: CP01 05 07P

TOTAL MARKS: 70
TOTAL TIME: 2H.45MIN

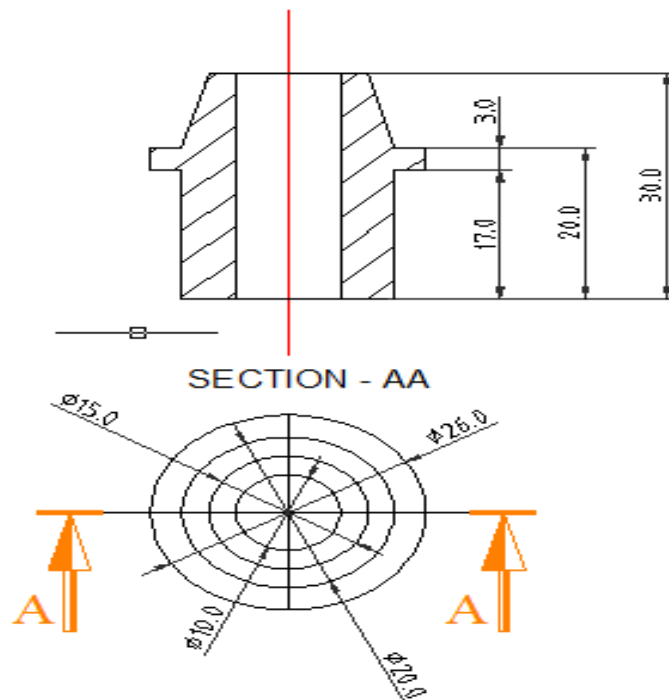
PART-B

MARKS: 100(scale down to 55)

1.0 Design a two cavity mould for the given component

DISTRIBUTION OF MARKS

- 1. FUNCTION - 50(Parting surface, core & cavity construction, feed system etc)
- 2. VIEWS - 25
- 3. BILL OF MATERIALS - 10
- 4. CALCULATIONS - 10
- 5. QUALITY OF WORK - 05



MATERIAL - PP
SHINKAGE - 1.5%