



C20-M-106

7054

**BOARD DIPLOMA EXAMINATION, (C-20)
OCTOBER/NOVEMBER—2024
DME – FIRST YEAR EXAMINATION
WORKSHOP TECHNOLOGY**

Time : 3 Hours]

[Total Marks : 80

PART—A

3×10=30

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **three** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. State the difference between hot chisel and cold chisel.
2. List out six types of files used in fitting sections.
3. Draw a neat sketch of hand saw and name its parts.
4. List out various types of drilling machines.
5. Draw a neat sketch of a twist drill and label the parts.
6. State the properties of good moulding sand.
7. List out any six different patterns used in foundry.
8. What is the purpose of core?
9. What is cold working? List out any two cold working processes.
10. Write short note on hot rolling.

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **eight** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. (a) Explain metal jack plane with a neat sketch.

(OR)

(b) Explain the working principle of Vernier height gauge with a neat sketch.

12. (a) What is press forging? Explain hydraulic press with a neat sketch.

(OR)

(b) Explain any four snips used in sheet metal with neat sketches.

13. (a) Draw and explain the radial drilling machine with a neat sketch.

(OR)

(b) Draw and explain the working of sensitive drilling machine with a neat sketch.

14. (a) Explain dry sand moulding. Write its advantages, disadvantages and applications.

(OR)

(b) What is centrifugal casting? Describe the centrifugal casting with neat sketch. State its application.

15. (a) Explain any two methods of hot extrusion.

(OR)

(b) What are the advantages and disadvantages of hot working of metals?

PART—C

10×1=10

- Instructions :** (1) Answer the following question.
(2) The question carries **ten** marks.
(3) Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer.

16. Explain any four types of joints used in carpentry with neat sketches.

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