



C20-M-106

7054

**BOARD DIPLOMA EXAMINATION, (C-20)
OCTOBER/NOVEMBER—2023
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 rip saw and cross cut saw.
2. What is setting of saw teeth? Why is it done?
3. Draw a neat sketch of hacksaw and name its parts.
4. What are the advantages and disadvantages of drilling?
5. Distinguish between drilling and reaming.
6. List any six hand moulding tools used in foundry shop.
7. State the properties of good moulding sand.
8. Write the advantages of green sand mould.
9. What are the advantages of cold working over hot working process?
10. Write short note on hot rolling.

PART—B

8×5=40

- 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 wood turning lathe with a neat sketch.

(OR)

(b) Explain any four types of fitting operations with sketches.

12. (a) Name different types of power hammers. Explain the working of drop hammer with a neat sketch.

(OR)

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

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

(OR)

(b) Explain any four operations performed on a drilling machine.

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

(OR)

(b) Explain investment casting and state its advantages and disadvantages.

15. (a) Explain indirect extrusion method with a diagram.

(OR)

(b) Describe the following processes :

(i) Hot drawing

(ii) Hot piercing

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.** (a) Draw and explain four types of seam.
(b) Draw and explain the combination set.

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