

7054

BOARD DIPLOMA EXAMINATION, (C-20)

MAY—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. Draw a neat sketch of hand saw and name the parts.
2. List out any six types of planes used in carpentry.
3. List out any six types of files used in fitting.
4. Draw a neat sketch of twist drill and label the parts.
5. Write the differences between drilling and reaming.
6. Write any three advantages of casting.
7. List out six types of moulding sand using in foundry.
8. What is the purpose of core?
9. Define cold working. State its advantages.
10. What is meant by spinning?

- 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) Describe wood turning lathe with the help of neat sketch.

(OR)

(b) Explain any four operations performed in fitting section.

12. (a) Explain the working of spring hammer with a neat sketch.

(OR)

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

13. (a) Explain the construction of radial drilling machine with a neat sketch.

(OR)

(b) Explain any four drilling operations with neat sketches.

14. (a) Explain investment casting and state the advantages.

(OR)

(b) Explain shell moulding process and state the advantages of shell moulding.

15. (a) Describe the following hot working process with neat sketches :

(i) Drawing (Cupping)

(ii) Piercing

(OR)

(b) Describe the following cold working process with neat sketches :

(i) Cold extrusion

* (ii) Cold heading

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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. What is the difference between hem and seams? Explain various hem joints.

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