

\*



C09-M-RAC-105

**3043**

**BOARD DIPLOMA EXAMINATION, (C-09)**

**MARCH/APRIL—2021**

**DME - FIRST YEAR EXAMINATION**

**WORKSHOP TECHNOLOGY**

*Time : 3 hours ]*

*[ Total Marks : 80*

---

**PART—A**

4×5=20

**Instructions :** (1) Answer *any five* questions.

(2) Each question carries **four** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. List three methods of manufacturing process.
2. Draw a neat sketch of rip saw and label the parts.
3. State the difference between reaming and drilling.
4. List three operations performed in forging shop.
5. List three operations performed in sheet metal shop.
6. Differentiate between mould and pattern.
7. List five materials used in making patterns in foundry.
8. Draw a neat sketch of trowel and label the parts.
9. Draw the neat sketch of twist drill and label its parts.
10. Define hot working of metals.

\*

**PART—B**

15×4=60

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

11. Explain with a neat sketch, the parts of a metal jack plane used in carpentry.
12. Explain the functions of the following with neat sketches :
  - (a) V-block
  - (b) combination square
13. Name different types of power hammers and explain the working of any one with a neat sketch.
14. List out different types of seams as applied to sheet metal work and explain any three types of seams.
15. List different types of moulding sands and describe any two types of moulding sands.
16. Explain the working of a radial drilling machine with a neat sketch.
17. Describe the working of vertical band saw with a neat sketch.
18. Describe the following mechanical working processes with neat sketches :
  - (a) rolling
  - (b) cupping

\*

★ ★ ★