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7054

BOARD DIPLOMA EXAMINATION, (C-20)

JUNE/JULY-2022

DME - FIRST YEAR EXAMINATION

WORKSHOP TECHNOLOGY

Time : 3 hours]

PART-A

[Total Marks : 80

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.** List any six types of planes.
- **2.** Write the specifications of a chisel.
- **3.** Draw a neat sketch of a stake and name the parts.
- **4.** Write any six operations which can be performed with a drilling machine.
- 5. List out various types of drills.
- 6. Write the advantages of casting process.
- 7. State the properties of good moulding sand.
- 8. List any six casting defects.
- 9. Write the advantages of cold working over hot working.
- **10.** Write about spinning.

/7054

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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 ratchet brace and wheel brace with neat sketches.

(OR)

- (b) Explain the vernier depth gauge with the help of a neat sketch.
- **12.** (a) Describe the following hand forging operations with neat sketches :
 - (i) Setting down
 - (ii) Drawing down
 - (iii) Upsetting
 - (iv) Bending

(**OR**)

- (b) Explain soldering and brazing.
- **13.** (a) Explain the twist drill nomenclature with the help of a neat sketch.

(**OR**)

- (b) List out the work holding devices used in drilling machines and explain any three with neat sketches.
- **14.** (a) Explain die casting and write its advantages and disadvantages.

(**OR**)

(b) List out various hand moulding tools and explain any four with simple sketches.

/7054

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15. (a) Explain the hot rolling processes.

(OR)

(b) List out various types of cold working processes and explain any two with simple sketches.

PART-C

 $10 \times 1 = 10$

Instructions: (1) Answer the following question.

- (2) The question carries ten marks.
- (3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.
- **16.** Classify wood working machines. Describe vertical band saw with a neat sketch.