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C16–M–106/RAC–106

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BOARD DIPLOMA EXAMINATION, (C–16)

OCTOBER—2020

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 neat sketch of hand saw and name its parts.

2. Define *(a)* drilling *(b)* reaming *(c)* boring.

3. Mention a list of marking tools used in fitting shop.

4. List out different types of machine forging hammers.

5. What are the advantages and disadvantages of forging?

6. List any six types of seams used in sheet metal work.

7. List any six types of patterns used in foundry.

8. List any six hand moulding tools used in a foundry shop.

9. State the difference between reeling and rolling.

10. What is hot working? State its advantages.

PART—B 10×5=50

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

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

(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

11. Explain the following hand saws used in carpentry with a neat sketch : 10

(a) Rip saw

(b) Bow saw

(c) Dove tail saw

(d) Key hole saw

12. *(a)* Sketch and describe a universal scribing block.

(b) Explain the use of *(i)* feeler gauge and *(ii)* radius and fillet gauge. 10

13. Draw the sketches and list the uses of the following tools : 10

(a) Fuller

(b) Swage

(c) Set hammer

(d) Hardie tool

(e) Flatter

14. Explain any five types of snips used in sheet metal with a neat sketch. 10

15. Explain any five operations performed on drilling machine. 10

16. *(a)* What is a pattern? List out four types of pattern allowances. 4

(b) Explain any three pattern allowances with neat sketches. 6

17. Describe the following hot working processes : 10

(a) Piercing

(b) Extrusion

(c) Deep drawing

(d) Rolling

18. Draw neat sketch of a vertical band saw and label the parts. 10

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