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C16–M–106/RAC–106

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BOARD DIPLOMA EXAMINATION, (C–16)

MARCH/APRIL—2018

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.
(4) Draw only line diagrams, wherever necessary.

1. List any six carpentry processes. ½×6=3

2. Write the specification of chisel.

3. List any six types of files used in fitting. ½×6=3

4. What are the advantages of forging?

5. What is the difference between punching and drifting?

6. List any three types of hems used in sheet metal work.

7. List any six hand moulding tools used in foundry. ½×6=3

8. List any three pattern allowances.

9. What is the differences between blanking and punching?

10. What are the advantages of cold working over hot working?

PART—B 10×5=50

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

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

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

(4) Draw only line diagrams, wherever necessary.

11. List various types of joints in carpentry and explain Mortise and Tenon joint with neat sketches. 4+6=10

12. List various fitting operations. Explain tapping and dieing operations. 4+3+3=10

13. Explain any four forging operations with the help of suitable sketches. 2½×4=10

14. Explain soldering and brazing. 5+5=10

15. *(a)* Draw a neat sketch of twist drill and label the parts. 5

(b) List different operations performed using drilling machine. 5

16. *(a)* List various types of moulding sand. 5

(b) List the desirable properties of moulding sand. 5

17. *(a)* List different hot working processes. 4

(b) Explain the tube extrusion process. 6

18. Explain the working of power hacksaw with a neat sketch. 5+5=10

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