



C14-M-106/RAC-106

4055

BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2015

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. List any three marking and measuring tools used in carpentry. 1½+1½=3
2. State the uses of a claw hammer. 3
3. State the differences between tapping and dieing. 1½+1½=3
4. Draw a neat sketch of reamer and name the parts. 2+1=3
5. What are the six common defects in forging? ½×6=3
6. What is a hem? List the three types of hems. 1½+1½=3
7. Distinguish between boring and counter boring. 1½+1½=3
8. List any six hand moulding tools used in foundry shop. ½×6=3
9. List any six materials used for pattern making. ½×6=3

- * 10. Distinguish between blanking and punching. 1½+1½=3

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.

11. (a) Explain wooden jack plane with a neat sketch. 5
(b) List different types of chisels used in carpentry. 5
12. What is a tap? Explain different types of taps that are used in fitting with neat sketches. 4+6=10
13. (a) Draw a neat sketch of sine bar. How is it used for measuring angles? 5
(b) State the differences between chipping and scrapping. 5
14. Explain the following forging operations with neat sketches : 10
(a) Upsetting
(b) Drawing down
(c) Swaging
15. Explain any four types of seams with the help of neat sketches. 2½×4=10
16. Explain the operations performed on drilling machine. 5×2=10
17. Explain any four types of patterns with neat sketches. 2½×4=10
- * 18. (a) What are the advantages and disadvantages of hot working over cold working? 5
(b) Describe the process of wire drawing in cold working with a neat sketch. 5
