



C14-M-106/C14-RAC-106

4055

BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2017

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 six types of planes. ½×6=3
2. Sketch a handsaw and name the parts. 2+1=3
3. State the difference between drilling and reaming. 3
4. What is a tap? Name the three taps in a set. 2+1=3
5. Draw a neat sketch of anvil and name the parts. 2+1=3
6. What is a seam? List any four types of seams used in sheet metal work. 1+2=3
7. List out six drilling machine operations. ½×6=3
8. Explain any two hand moulding tools with a neat sketch. 1½×2=3

- * 9. What is a pattern? List any four types of patterns used in foundry. 1+2=3
10. What is hot working? List any four methods of hot working. 1+2=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) List the joints used in carpentry process. 4
 (b) Explain any two of them with sketches. 3+3=6
12. Explain combination set with a neat sketch. 6+4=10
13. (a) Draw a neat sketch of twist drill and name the parts. 5
 (b) Explain the uses of pipe vise and hand vise. 5
14. Describe the working of spring hammer with a neat sketch. 6+4=10
15. Explain any four types of stakes with neat sketches. 2½×4=10
16. Draw a neat sketch of sensitive drilling machine and explain its working. 4+6=10
17. Explain about investment casting with a neat sketch. 6+4=10
- * 18. Explain the following extrusion methods with sketches : 5+5=10
 (a) Direct extrusion
 (b) Indirect extrusion
