



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

$3 \times 10 = 30$

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. $\frac{1}{2} \times 6 = 3$
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. $\frac{1}{2} \times 6 = 3$
8. Explain any two hand moulding tools with a neat sketch. $1 \frac{1}{2} \times 2 = 3$

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

$10 \times 5 = 50$

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. $2\frac{1}{2} \times 4 = 10$

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

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