



C14-M-106/C14-RAC-106

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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

/4055

1

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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
