



C14-M-106/RAC-106

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BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2016

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. Name any six measuring and marking tools used in carpentry shop.
- * 2. Sketch the handsaw and label the parts.
3. What is a tap? Name the three taps in a set.
4. List out safety precautions that should be observed in fitting shop.
5. Sketch the Anvil used in Blacksmithy and name the parts.
6. What is meant by embossing and bending?

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7. List out different types of drilling machines.
8. State the types of moulding sand.
9. List out various types of patterns.
10. Describe the process of stretch forming with a neat sketch.

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. What are the different types of joints used in carpentry? Explain any two of them with sketches.
12. With a neat sketch, explain the working of power hacksaw.
13. State the difference among reaming, tapping and dieing. How these operations are done in fitting?
14. Describe with the aid of neat sketches, the following hand-forging operations :
 - (a) Setting down
 - (b) Drawing down
 - (c) Upsetting
 - (d) Bending
15. Explain soldering and brazing.

- 16.** (a) Draw a neat sketch of twist drill. Show various parts.
(b) List out the different operations on drilling machine.
- 17.** Explain investment casting method.
- 18.** Explain the following cold working processes with the help of neat sketches :
- (a) Wire drawing
(b) Impact extrusion
