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C14-M-106/RAC-106

4055

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?

- * 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
