C09–M–105/RAC–**105**

3043

BOARD DIPLOMA EXAMINATION, (C–09)
OCT/NOV—2015
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. What is metal forming? What are the two types of metal forming process?

2. List out any six holding tools used in carpentry.

3. State the differences between tapping and dieing.

4. Sketch hot drawing or cupping operation.

5. List any six sheet metal operations.

6. List out any six hand moulding tools used in foundry.

7. What is the purpose of trowel? List different types of trowels.

8. Briefly explain colour codes for pattern.

9. How drilling machines are classified?

10. What are the disadvantages of cold working processes?

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PART—B   10×5=50

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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. Briefly explain Ratchet brace and wheel brace with neat sketches.

12. *(a)* Sketch and describe a universal scribing block.
    (b) Sketch and describe a V-block.

13. *(a)* List out all smith operations and explain any two with neat sketches.
    (b) Briefly describe open fire and stock fire in forging.

14. Draw neat sketches of any five types of stakes used in sheet metal shop and explain about them.

15. Explain CO_2 process and state its advantages and limitations.

16. *(a)* Draw a neat sketch of twist drill, show various parts.
    (b) List various materials used for drills.

17. *(a)* Draw a neat sketch of a vertical band saw and label the parts.
    (b) Describe the principle of reciprocating saw.

18. Describe the following cold working processes :
    (a) Rolling
    (b) Drawing
    (c) Bending
    (d) Squeezing

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