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C09–M–105/RAC–105

3043

BOARD DIPLOMA EXAMINATION, (C–09)

MARCH/APRIL—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. List out any four marking tools used in carpentry. Write the specific application of straight edge.

2. List out different methods of manufacturing processes.

3. List out operations involved in fitting.

4. Draw a neat sketch of anvil and name its parts.

5. List out metals used in sheet-metal work.

6. Define *(a)* flowability and *(b)* collapsibility.

7. State the desired properties of cores.

8. State the advantages of green sand moulds.

9. Define drilling and reaming operations.

10. State the advantages of cold working of metals.

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. Draw a neat sketch of marking gauge and mortise gauge and name the parts.

12. Describe vernier height gauge with a neat sketch.

13. Draw a neat sketch of spring hammer and label the parts.

14. *(a)* List out types of seams used in sheet-metal work.

(b) Explain drawing operation with a neat sketch.

15. Explain various casting defects, its causes and their remedies.

16. *(a)* How are drilling machines classified?

(b) Show a sensitive drilling machine in a neat sketch.

17. *(a)* List the materials used for making hacksaw blades.

(b) Describe a circular cold saw with neat sketch.

18. *(a)* List out various hot working processes.

(b) Write short notes on hot rolling and direct extrusion.

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