



C09-M-105/C09-RAC-105

3043

BOARD DIPLOMA EXAMINATION, (C-09)

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. List out any three types of surface treatment processes.

2. Draw a neat sketch of coping saw and state its purpose.

3. What are the uses of depth gauge?

4. Write short notes on the following :

(a) Ball-peen hammer

(b) Cross-peen hammer

5. What is a soldering iron? List two types of soldering iron.

6. List any three advantages of synthetic sands over natural sands.

7. State the applications of CO₂ process.

- * 8. Draw a segmental pattern.
9. What are the specifications of drilling machine?
10. State the limitations of hot extrusion process.

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. Explain the working of circular saw with a neat sketch.
12. What is a chisel? Explain any four types of chisel with neat sketches.
13. Name the different types of power hammers. Explain the working of steam hammer.
14. (a) What is meant by flanging and burring as applied to sheet metal work?
(b) Briefly explain spot welding with sketch.
15. (a) State the advantages and limitations of casting over other manufacturing process.
(b) Sketch any three hand tools commonly used by moulder.
16. (a) Draw a neat sketch of twist drill and label the various parts.
(b) List various materials used for drills.
- * 17. Explain the working principle of friction disc sawing. Why is it not suitable for cast iron?
18. What are the advantages and disadvantages of hot working over cold working?
