



C09-M/RAC-105

3043

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2018

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. Draw a flow chart of powder metallurgy processes.
2. List out any six hand saws used in carpentry.
3. Draw a neat sketch of reamer and name the parts.
4. List four types of forging hammers.
5. What is meant by seam applied to sheet metal?
6. Draw a skelton pattern.
7. What materials are widely used as additives?
8. List out the sequence of steps involved in casting.
9. What are the specifications of drilling machine?
10. What is cold spinning process?

PART-B

10×5=50

- Instructions :** (1) Answer *any five* questions.
(2) Each questions carries **ten** marks.
(3) Answers should be comprehensive and the criteria for valuation are the content but not the length of the answer.

- 11.** (a) What are the different joints used in the carpentry?
(b) Describe the following with neat sketches :
(i) Mortise and Tenon Joint (ii) Dovetail Joint
- 12.** Explain the working of stick micrometer with neat sketch.
- 13.** Draw the sketches and list the uses of the following tools :
(a) Fullers (b) Swages (c) Set hammers (d) Hardie tool
(e) Flatters
- 14.** What is a stake? Explain any four types of stakes with neat sketches.
- 15.** Explain investment casting. Write its advantages, disadvantages and applications.
- 16.** (a) Draw a neat sketch of twist drill, show various parts.
(b) List various materials used for drills.
- 17.** Explain the working of abrasive disc machine with neat sketch.
- 18.** What are the advantages and disadvantages of cold working of metals.

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