

**3043**

**BOARD DIPLOMA EXAMINATION, (C-09)**

**OCT/NOV—2013**

**DME—FIRST YEAR EXAMINATION**

**WORKSHOP TECHNOLOGY**

*Time : 3 hours ]*

*[ Total Marks : 80*

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**PART—A**

**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 the importance of manufacturing processes?
2. Draw a neat sketch of chisel and state its use.
3. Explain with sketch the uses of hermaphrodite (odd leg) caliper.
4. What are the various tongs used in hand forging? Write down specific use of each.
5. List out the different types of snips used in sheet-metal work.
6. List out the different types of cores used in foundry practice.
7. What is pattern? Name the allowances provided on pattern.
8. Name the various defects which occur in sand castings.

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9. What are various drilling machine operations?
10. State the advantages and disadvantages of cold working.

**PART—B**

**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. Describe about the following with neat sketches : 5+5

(a) Metal jack plane

(b) Ratchet brace

12. Explain the following fitting operations with neat sketches : 3+3+4

(a) Chipping

(b) Sawing

(c) Tapping

13. Describe about the following operations with neat sketches : 3+4+3

(a) Upsetting

(b) Drawing down

(c) Setting down

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**C09-M-105**

- 14.** Illustrate briefly the following sheet-metal operations with neat sketches : 5+5
- (a) Drawing
  - (b) Squeezing
- 15.** Describe with the aid of neat sketch the process of shell moulding. 10
- 16.** Describe sensitive drilling machine with a neat sketch. 4+6
- 17.** Explain the defects in casting, its causes and remedies. 10
- 18.** Describe about the following operations with neat sketches : 5+5
- (a) Hot piercing
  - (b) Direct extrusion

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