



c09-M-105

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**BOARD DIPLOMA EXAMINATION, (C-09)
MARCH/APRIL—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.

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1. List three types of manufacturing process.
2. Draw a neat sketch of pincer.
3. Draw a neat sketch of twist drill and name the parts.
4. Sketch the upsetting operation in hand forging.
5. Draw a neat sketch of hand groover and explain its use.
6. What is a core? What is its purpose?
7. State the applications of CO₂ process.

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[*Contd...*

8. Draw a neat sketch of moulding flask and label the parts.
9. What are the specifications of drilling machine?
10. List out the hot-working processes.

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. List out six types of planes used in carpentry and explain any two planes with sketches.
12. Explain the working of depth gauge micrometer with the help of neat sketch.
13. What is upset forging? Explain how it is done.
14. What is hum? List three types of hum and explain with sketches.
15. Explain green sand moulding. Write the advantages and disadvantages and its applications.
16. Draw and explain any five types of drill.
17. List three types of metal sawing machine and explain the construction details and working principles of any one.
18. Explain the following :
- (a) Cold hobbing
- (b) Shot penning
