



C09-M-105/C09-RAC-105

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BOARD DIPLOMA EXAMINATION, (C-09)

APRIL/MAY—2015

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. Define (a) metal forming and (b) metal cutting.
2. List out the common types of planes used in woodworking.
3. Draw a neat sketch of twist drill and name its parts.
4. Draw a sketch of swage block.
5. Write any six shearing operations used in sheet metals work.
6. List out any six types of patterns used in foundry.
7. Define (a) porosity and (b) plasticity.

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8. Write the <sup>\*</sup>advantages of shell moulding.
9. State the difference between boring and counter boring.
10. State the advantages of hot 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 wooden jack plane and metal jack plane and label its parts.
12. Explain the working of combination set with the help of a neat sketch.
13. Draw a neat sketch of steam hammer and explain its working.
14. Explain any two fastening methods used in sheet metal work with neat sketch.
15. Explain investment casting and write its advantages and disadvantages.
16. *(a)* List out the various operations performed on drilling machine.  
*(b)* Draw a neat sketch of radial drilling machine and label the parts.
17. Describe a power hacksaw with a neat sketch and state the advantages of power hacksaw.
18. List out the various cold working processes and explain cold extrusions with neat sketch.

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