



C09-M-105/RAC-105

3043

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2014

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. What is the importance of manufacturing process?
2. Draw a claw hammer and label the parts.
3. What is the difference between reaming and drilling?
4. Describe swage block with a neat sketch.
5. What is difference between soldering and brazing?
6. State the characteristics of good moulding sand.
7. What are the main advantages of die casting?
8. Sketch and name three hand tools commonly used in sheet metal.

- * 9. State the difference between counter boring and counter sinking.
10. What are the three advantages of hot working?

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. What are the different joints used in wood working? Describe any two of them with neat sketches.
12. (a) Draw a neat sketch of file and name the parts. 5
 (b) Explain the hacksaw with a neat sketch. 5
13. Describe the operations with aid of sketches (a) setting down and (b) upsetting. 5+5
14. (a) Draw and explain two types of seams. 5
 (b) Explain riveting process with a neat sketch. 5
15. (a) State the allowances provided in the pattern. 5
 (b) State any four defects in sand casting and give the causes. 5
16. Explain any two operations performed on radial drilling machine with neat sketches.
17. Describe band saw machine with a neat sketch. 3+7
- * 18. (a) Differentiate between hot working process and cold working process. 5
 (b) What is the effect of cold working on mechanical properties of metal? 5
