



C14-M-106/RAC-106

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BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL—2017

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. List out any six carpentry process.
2. Draw the neat sketches of the following :
 - (a) Mortise and tenon joint
 - (b) Dovetail joint
3. Name the various types of vices used in fitting shop.
4. Define the following :
 - (a) Drilling
 - (b) Boring
5. List any six forging defects.
6. Distinguish between blanking and punching.
7. Sketch the twist drill and label the parts.

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8. List any four ^{*} properties of moulding sand and explain any one of them.
9. State the function of risers.
10. Describe the process of hot piercing with a neat sketch.

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. Explain with neat sketches :

(a) Bandsaw

(b) Wood planer

12. (a) Describe the use of gauge block.

(b) Sketch and describe a V-block.

13. Explain any five types of files used in fitting with neat sketches.

14. Distinguish between open fire and stock fire with neat sketches.

15. (a) Explain any two snips used in sheet metal work with sketches.

(b) Explain any two stakes used in sheet metal work with sketches.

16. What are the different work-holding devices used in drilling machine? Discuss any three of them with neat sketches.

17. Discuss, in detail, how plunge-operated hot-chamber die casting machine works.

18. What are the advantages and disadvantages of hot working over cold working?
