



C14-M/RAC-106

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BOARD DIPLOMA EXAMINATION, (C-14)
SEPTEMBER/OCTOBER - 2020
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 processes.
2. Sketch a handsaw and name the parts.
3. What is a tap? Name the three taps in a set.
4. Define :
 - (a) Drilling
 - (b) Reaming
5. What are the important forging operations?
6. List any six types of seams used in sheet metal work.
7. Distinguish between counter boring and counter sinking.
8. State the properties of good and moulding.

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9. What are the common materials used for pattern making.
10. List out any six methods of cold 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. Explain with a neat sketch of metal jack plane.
12. Draw a neat sketch of sine bar. How is it used for measuring angles?
13. Draw a neat sketch of vernier caliper and name the parts. Describe the principle of vernier caliper.
14. List out different types of power hammers. Explain the working spring hammer.
15. Explain the following with sketches :
- (i) Shearing
 - (ii) Bending
 - (iii) Drawing
16. Draw a neat sketch of radial drilling machine. Label the parts and explain their functions.
17. What are the common defects of casting? State their causes and remedies.
18. Explain the cold working processes with the help of neat sketches :
- (a) Wire drawing
 - (b) Impact extrusion

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