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C20-M/RAC-106

7054

BOARD DIPLOMA EXAMINATION, (C-20)

FEBRUARY/MARCH —2022

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. Draw a neat sketch of hand saw and name its parts.
2. List out different types of files used in fitting section.
3. Write about seaming. Name any four types of seams used in sheet metal work.
4. List out various types of drilling machines.
- * 5. Write the sequence in which the following operations will be performed (a) boring, (b) drilling and (c) reaming and why?
6. List any six commonly used patterns.
7. List any six hand moulding tools.
8. Write the advantages of green sand mould.
9. State the differences between hot working and cold working.
10. Write short note on hot rolling.

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PART—B

8×5=40

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **eight** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. (a) Describe various types of saws used in carpentry work.

OR

(b) Explain different types of fitting operations.

12. (a) Describe with neat sketch the working of pneumatic hammer.

OR

(b) Explain any five types of snips used in sheet metal with neat sketches.

13. (a) Describe radial drilling machine with a neat sketch.

OR

(b) Describe various operations that can be performed on drilling machine.

14. (a) Explain about shell moulding with a neat sketch.

OR

(b) List the common defects of casting and explain any four among them.

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15. (a) Explain with the aid of neat sketch direct and indirect hot working processes.

OR

(b) Describe the following cold working processes.

(i) Spinning

(ii) Shot peening

(iii) Cold heading

(iv) Cold extrusion

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PART—C

10×1=10

- Instructions :** (1) Answer the following question.
(2) The question carries **ten** marks.
(3) Answer should be comprehensive and criterion for valuation is the content but not the length of the answer.

16. Describe the following fastening methods used in sheet metal work with neat sketches :

(a) Riveting

(b) Soldering

(c) Spot welding

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