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C16-M-RAC-106

6057

BOARD DIPLOMA EXAMINATION, (C-16)

JUNE/JULY—2022

DME - FIRST YEAR EXAMINATION

WORKSHOP TECHNOLOGY

Time : 3 hours ]

[ Total Marks : 80

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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 rip saw and name the parts.
2. Draw a neat sketch of file and name the parts.
3. State the uses of (a) surface plate and (b) angle plate.
4. Draw a neat sketch of blacksmith forge and name the parts.
- \* 5. Define the following forging operations (a) swaging and (b) fullering.
6. List six important shearing operations performed in sheet metal work.
7. List important patterns used in foundry.
8. What is core? State desired properties of a core.
9. List the effects of hot working on metals.
10. List six methods of cold working processes.

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**PART—B**

10×5=50

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

11. Explain with a neat sketch the constructional features of wood turning lathe.
12. Explain five important fitting operations.
13. Explain with a neat sketch the working principle of a pneumatic hammer.
14. Explain with neat sketches the following stakes :
  - (a) Blow horn stake
  - (b) Conductor stake
  - (c) Double horn stake
  - (d) Funnel stake
15. Explain the process of centrifugal casting with a neat sketch.
16. Explain the constructional details of a radial drilling machine with a neat sketch.
- \* 17. Describe the constructional details of reciprocating power hack saw with a neat sketch.
18. Explain with neat sketches the following hot working processes :
  - (a) Direct extrusion
  - (b) Indirect extrusion

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