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C20-M-106

7054

BOARD DIPLOMA EXAMINATION, (C-20)

JANUARY—2023

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. State the differences between Rip saw and Cross cut saw.
2. Write about sine bar.
3. List the six fuels generally used in forging.
4. List out six various cutting tool materials used for drills.
- * 5. Define (a) counter sinking and (b) counter boring operations in drilling.
6. List the allowances provided in a pattern.
7. Write the properties desired for cores.
8. List any six types of moulding sand.
9. List out six methods of cold working.
10. Write the purpose of metal extrusion.

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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 the criterion for valuation is the content but not the length of the answer.

11. (a) What are the different types of joints used in carpentry and explain any two joints with simple sketches.

(OR)

(b) Explain the working of power hacksaw with a neat sketch.

12. (a) List out various forging operations and explain any four of them.

(OR)

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

13. (a) Explain the construction of sensitive drilling machine with the help of a neat sketch.

(OR)

(b) Draw and explain the tool holding devices used in drilling machine.

14. (a) Explain the investment casting with a neat sketch.

(OR)

(b) Explain the properties of moulding sand.

15. (a) Explain the following hot working processes :

(i) Hot spinning and (ii) Hot piercing

(OR)

(b) Explain the tube drawing and wire drawing processes.

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PART—C

10×1=10

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

16. List out various hand tools used in forging and explain why machine forging is better than hand forging.

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