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C16–M/RAC–106

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BOARD DIPLOMA EXAMINATION, (C–16)

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 and each question carries **three** marks.

(2) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. State the difference between rip saw and crosscut saw.

2. Mention a list of marking tools used in fitting shop.

3. Write a short note on sine bar.

4. What are the fuels generally used in forging?

5. Draw a neat sketch of anvil and label the parts.

6. Draw a neat sketch of stake and name the parts.

7. List any six-hand moulding tools used in foundry shop.

8. What is the purpose of core?

9. Write any three advantages of hot working.

10. Differentiate between hot working and cold working.

PART—B 10×5=50

Instructions : (1) Answer *any* **five** questions and each question carries **ten** marks.

(2) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. *(a)* Draw a neat sketch of metal jack plane and name its parts.

(b) List the different types of chisels used in carpentry. 5+5=10

12. Draw a neat sketch of vernier calliper and name the parts. Describe the principle of vernier calliper.

13. Explain any five Smithy operations with suitable diagrams.

14. Explain any four types of seams with the help of neat sketch.

15. Explain any five properties of moulding sand.

16. Explain operations performed on drilling machine.

17. *(a)* State the advantages and disadvantages of vertical band saw over power hacksaw.

(b) What is a setting of saw teeth? Why it is done? 5+5=10

18. Explain various methods of hot extrusion.

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