C16–M–106/C16–RAC–**106**

6057

BOARD DIPLOMA EXAMINATION, (C–16)
OCT/NOV—2017
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.

　　　　　　(4) Draw only line diagrams, wherever necessary.

1. Sketch the handsaw and label the parts.

2. What is the purpose of file card in fitting?

3. List safety precautions that should be observed in fitting shop.

4. List any three types of hammers used in forging.

5. List any three tongs used in forging.

6. List any three metals used in sheet metal work.

7. What is the purpose of core in the foundry?

8. What is sand binder? List the two types of sand binders.   1+2=3

9. What are the advantages of cold working over hot working?

10. State the difference between blanking and punching.

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PART—B   10×5=50

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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.

                (4) Draw only line diagrams, wherever necessary.

11. Describe wood turning lathe with the help of neat sketch.

                                                          5+5=10

12. *(a)* Explain how sine bar is used for measuring angles.   5

    (b) List ten common gauges used in fitting shop.   ½×10=5

13. Describe, with the aid of neat sketches, the function of the following :   5+5=10

    (a) Anvil

    (b) Swage block

14. Explain soldering and brazing.   5+5=10

15. Explain the working of sensitive drilling machine with a neat sketch.   5+5=10

16. Explain any four properties of moulding sand.   2½×4=10

17. Explain direct and indirect hot extrusion processes with neat sketches.   5+5=10

18. *(a)* What is setting of sawteeth.   4

    (b) Explain any two types of setting of sawteeth with sketches.

                                                                                  3+3=6

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