6057

BOARD DIPLOMA EXAMINATION, (C–16)

MARCH/APRIL—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.

1. List out different holding tools used in carpentry.

2. What is the difference between reaming and drilling?

3. Draw a neat sketch of hand hammer and name the parts.

4. Write the differences between punching and drifting.

5. What are the common six defects of forging?

6. List out the three types of hems.

7. State the properties of good moulding sand.

8. What is meant by sand binder? Name the types of sand binders.

9. Write about hot extrusion process.

10. Describe the wire drawing process with a neat sketch.

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.

11. *(a)* Draw a neat sketch of metal jack plane and name its parts. 5

(b) Write the specific use of *(i)* spoke shave and *(ii)* router plane. 5

12. List out the different types of files. Write the use of any three types of files with sketches.

13. Describe the working of spring hammer with a neat sketch.

14. Draw neat sketches of any four types of stakes used in sheet metal shop and explain their use.

15. *(a)* Draw a neat sketch of twist drill and name the parts. 5

(b) List the various materials used for drills. 5

16. Explain dry sand moulding. Write the advantages and disadvantages and its applications.

17. Describe the following cold working processes :

(a) Spinning

(b) Shot peening

(c) Cold heading

(d) Cold extrusion

18. *(a)* List the specifications of a power hack saw.

(b) What is setting saw teeth? Explain the types of setting with sketches.

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