



C16-M-106

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BOARD DIPLOMA EXAMINATION, (C-16)

MARCH/APRIL—2018

DME—FIRST YEAR EXAMINATION

WORKSHOP TECHNOLOGY

Time : 3 hours]

[Total Marks : 80

PART—A

2×15=30

Instructions : (1) Answer *any fifteen* questions.
(2) Each question carries **two** marks.
(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. List any two types of saws used in carpentry.
2. State the use of pincer and claw hammer.
3. Mention various types of special planes used in carpentry.
4. What is the difference between drilling and reaming?
5. State the difference between centre punch and prick punch.
6. What is a scraper? Name three types of scrapers.
7. What is meant by feeler gauge? State its purpose.
8. What are the common four defects of forging?
9. How does soldering differ from brazing?
10. List out the metals used in sheet metal work.

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11. List out the four types of seams.
12. What is spot facing? Where is it used?
13. List out various cutting tool materials used for manufacturing of drills.
14. Mention four tool-holding devices used in drilling.
15. List out any four materials used for pattern making.
16. List various defects in casting.
17. List out the various methods of extrusion.
18. Draw a line diagram of three high rolling mills.
19. Differentiate hot working with cold working.
20. Mention various cold squeezing operations.

PART—B

10×5=50

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.

21. Draw a neat sketch of wood planer and explain its working.
22. (a) Write the specific uses of the following carpentry tools :
 - (i) Auger
 - (ii) Gimlet
 - (iii) Spoke shave
 - (iv) Rasp
 - (v) Bandsaw
- (b) Describe hot piercing operation with neat sketch.

- 23.** Draw a sketch of a combination set. Name the parts and state its uses.
- 24.** Explain the following forging operations with sketches :
- (a) Upsetting
 - (b) Setting down
 - (c) Swaging
 - (d) Bending
- 25.** Explain any four stakes used in sheet metal with sketches.
- 26.** Draw and explain the radial drilling machine with a neat sketch.
- 27.** Explain shell moulding with sketch and also write the advantages and disadvantages of it.
- 28.** (a) List out any four common defects in casting.
(b) State the causes and remedies for the following defects :
- (i) Blow holes
 - (ii) Swell
 - (iii) Mis run
 - (iv) Hot tear

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