

Code : 15ME05T

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III Semester Diploma Examination, Nov./Dec. 2018

MECHANICAL WORKSHOP TECHNOLOGY

Time : 3 Hours]

[Max. Marks : 100

- Note : (i) Answer any 6 questions from Part – A.
(ii) Answer any 7 questions from Part – B.

PART – A

1. Write the properties and uses of cast iron. 5
2. Explain soldering and brazing process. 5
3. List the different metals used for sheet metal work. 5
4. Explain with neat sketch shearing operation of sheet metal. 5
5. Explain reaming and boring process. 5
6. Write a neat sketch of column and knee type milling machine and label its parts. 5
7. Define pattern. List the materials used for patterns. 5
8. Define Die-casting. List the advantages of it. 5
9. State any five advantages of powder metallurgy. 5

PART – B

10. (a) Explain normalizing process. 5
(b) Explain annealing process. 5
11. (a) Differentiate between thermoplastics and thermosetting. 5
(b) Explain the uses of composite materials in engineering. 5
12. (a) Explain defects in welding process. 5
(b) Explain with neat sketch MIG welding. 5
13. (a) Explain with neat sketch spot welding. 5
(b) Explain with neat sketch seam welding. 5
14. (a) Explain with neat sketch drawing operation of sheet metal. 5
(b) Explain with neat sketch power press. 5
15. (a) With a neat sketch write the geometry of single point cutting tool. 5
(b) Explain with neat sketch working principle of a shaper machine. 5
16. (a) Explain with neat sketch notching and lancing operation. 5
(b) Explain with neat sketch end milling operation. 5
17. (a) List any five defects in casting. 5
(b) Explain with neat sketch sweep pattern. 5
18. (a) Explain with neat sketch skeleton pattern. 5
(b) Explain with neat sketch centrifugal casting. 5
19. (a) Explain with neat sketch metal powder manufacturing by Automization method. 5
(b) Explain with neat sketch metal powder manufacturing by Electrolysis method. 5