

1327**Code : 15ME05T**Register
Number

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III Semester Diploma Examination, April/May-2018**MECHANICAL WORKSHOP TECHNOLOGY****Time : 3 Hours]****[Max. Marks : 100**

- Note :** (i) Answer any **six** questions from Section – A.
(ii) Answer any **seven** full questions from Section – B.

SECTION – A**BETA CONSOLE!**

1. Define Heat treatment and mention the different Heat treatment processes. **5**
2. Mention the different grades of steel according to the carbon content and also mention their uses. **5**
3. Write the properties of copper and its application. **5**
4. Explain the submerged Arc welding process with a neat sketch. **5**
5. Explain punching and slitting operation involving sheet metal. **5**
6. Explain drawing and squeezing operation. **5**
7. Explain the single point cutting tool geometry with a sketch. **5**
8. Mention the advantages of Powder Metallurgy. **5**
9. Write the properties of Moulding sand. **5**

SECTION – B

10. Explain the following Heat treatment processes with applications : **10**
 - (a) Annealing
 - (b) Hardening
 - (c) Normalizing
 - (d) Tempering

11. Explain the following with neat sketches : 10
- (a) Spot welding
 - (b) Seam welding
12. (a) Explain TIG welding with a neat sketch. 6
- (b) Explain the classification of welding process. 4
13. (a) Mention the applications of sheet metal work. 5
- (b) Explain the following sheet metal operations with a neat sketch : 5
- (i) Notching
 - (ii) Lancing
14. (a) Draw the block diagram of a centre lathe and label its parts. 5
- (b) Explain the classification of milling cutters. 5
15. Explain the following drilling M/c operations with neat sketches : 10
- (a) Reaming
 - (b) Boring
16. Explain with a neat sketch the following : 10
- (a) Sweep pattern
 - (b) Gated pattern
17. (a) Explain centrifugal casting with a neat sketch. 6
- (b) Explain the usages of patterns. 4
18. Explain the following metal powder manufacturing methods : 10
- (a) Automization
 - (b) Electrolysis
19. Write short notes on the following : 10
- (a) Smith forging
 - (b) Press work

BETA CONSOLE!

Diploma - [All Branches]

Beta Console Education



Diploma Question Papers [2015-19]

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