

1425

Code : 15MC41T

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IV Semester Diploma Examination, Nov./Dec. 2017

MANUFACTURING SCIENCE

Time : 3 Hours]

[Max. Marks : 100

Note : (i) Answer any **six** questions from Part-A and **seven** full questions from Part-B.
(ii) Draw the sketches if necessary.

PART – A

Answer any **six** full questions.

5 × 6 = 30

1. With sketch explain gated pattern. 5
2. Explain the importance of pattern in casting process. 5
3. With sketch explain hot rolling. 5
4. What are the advantages and disadvantages of arc welding ? 5
5. Sketch and Label Engine Lathe. 5
6. Explain Milling of slots and grooves. 5
7. Explain External and Internal tapping. 5
8. Explain advantages & applications of EBM. 5
9. Explain applications of powder Metallurgy. 5



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PART – BAnswer any **seven** full questions.**10 × 7 = 70**

10. (a) Explain cope and drag type Moulding with neat sketch. 7
(b) List the various allowances to be provided in patterns. 3
11. (a) Explain steps involved in Moulding. 5
(b) Explain the applications of solid and split pieces pattern. 5
12. (a) Describe Forward Extrusion. 5
(b) Explain punching and fullering. 5
13. (a) Explain with neat sketch cold wire drawing. 5
(b) Sketch and label Radial drilling machine. 5
14. (a) Sketch MIG welding. 5
(b) Describe the procedure of brazing. 5
15. (a) Explain with sketch reaming and boring process. 6
(b) List the operations performed on Lathe Machine. 4
16. (a) Explain up milling and down milling with neat sketches. 8
(b) Explain the functions of head stock of an engine lathe. 2
17. (a) Sketch and explain Ultrasonic machining process. 7
(b) List the applications of AJM. 3
18. (a) Sketch and explain electro discharge machining (EDM) process. 7
(b) Give the Advantages of Laser beam Machining process. 3
19. (a) Explain mechanical pulverization method of preparing metal powder. 7
(b) List the advantages of powder metallurgy. 3

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