

1337**Code : 15ME43T****Register
Number**

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IV Semester Diploma Examination, April/May-2018**MACHINE TOOL TECHNOLOGY****Time : 3 Hours]****[Max. Marks : 100**

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

PART – A**BETA CONSOLE!****6 × 5 = 30**

1. State the properties of cutting fluid.

2. Explain the different types of chips.

3. Sketch the Geometry of single point cutting tool.

4. State the advantages of turret lathe over capstan lathe.

5. Write the specification of a centre lathe.

6. List the various operations performed in planer.

7. Differentiate between shaper & planer.

8. State the specification of Grinding wheel.

9. Describe briefly the principle of additive manufacturing.



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PART - B

7 × 10 = 70

10. (a) Explain taper turning by tailstock set-over method. **5**
(b) Explain thread cutting operation. **5**
11. Sketch and explain the working of single spindle automats. **10**
12. Sketch and explain the working of hydraulic shaper mechanism. **10**
13. Sketch and explain the working of planer. **10**
14. Explain with neat sketch any two locating devices. **10**
15. Explain with neat sketch Twist drill geometry. **10**
16. Explain with sketch up milling & down milling process. **10**
17. Sketch and explain the working of radial drilling machine. **10**
18. Sketch and explain the working of surface grinding. **10**
19. Sketch and explain electric discharge machining. **10**

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