

1280**Code : 15ME43T**Register
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IV Semester Diploma Examination, Nov./Dec. 2017**MACHINE TOOL TECHNOLOGY****Time : 3 Hours]****[Max. Marks : 100****Note :** Answer any **six** questions from Part – **A** and any **seven** full questions from Part – **B**.**PART – A****6 × 5 = 30**

1. State the important characteristics of cutting tool materials.

5

2. Explain Oblique cutting.

5

3. Write and explain Taylor's Tool life equation.

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

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5. Compare the applications and disadvantages of 3 Jaw chuck and 4 Jaw chucks.

5

6. List the various operations performed in planer.

5

7. Differentiate between shaper and planer.

5

8. What are the factors for selection of grinding wheels ?

5

9. Give the classification of non-conventional machining process.

5**PART – B****7 × 10 = 70**

10. Sketch and explain the thread cutting operation on a lathe machine.

10

11. Sketch and explain the working of single spindle automats.

10

12. Sketch and explain the working of slotter.

10

13. Sketch and explain the working of Hydraulic shaper mechanism. 10
14. Describe briefly cylindrical and drill bush locating devices with sketch. 10
15. Explain counter sinking and counter boring. 10
16. Explain with neat sketch of up milling and down milling process. 10
17. Sketch column and knee type of milling machine and label the parts. 10
18. Sketch and explain the working of surface grinding. 10
19. Sketch and explain working principle of Electric Discharge Machining. (EDM) 10



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