

**Code : 15EC53T**

Register  
Number

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**V Semester Diploma Examination, April/May-2019**



**ADVANCED COMMUNICATION**

**Time : 3 Hours ]**

**[ Max. Marks : 100**

- Instructions :** (i) Answer any **six** questions from Part – A. ( $5 \times 6 = 30$  marks)  
(ii) Answer any **seven** questions from Part – B. ( $7 \times 10 = 70$  marks)

**PART – A**

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1. Define microwave signals. List the frequency bands. 5
2. List the applications of RADAR. 5
3. Explain A scope display with neat figure. 5
4. Write a note on subsatellite point. 5
5. Define Transponders. List the types of satellite transponders. 5
6. Write a note on DTH. 5
7. List the military application of satellite. 5
8. Write the importance of frequency reuse in mobile communication. 5
9. List the features of CDMA-2000 system. 5

## PART – B

10. Explain the construction, working & application of a Magnetron. 10
  11. Sketch the construction of a TWT & explain its working. 10
  12. Derive the RADAR range equation & list the factors which influence it. 10
  13. Sketch the block diagram of MTI radar & explain its working. 10
  14. Compare LEO, MEO and GEO satellite. 10
  15. Explain the general block diagram of communication satellite. 10
  16. Explain the GPS system with neat sketch. 10
  17. Explain the working of a typical cellular system. 10
  18. Explain the different Handoff strategies. 10
  19. Explain the Zigbee addressing method. 10
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