

1280

Code : 15EC53T

Register
Number

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V Semester Diploma Examination, April/May-2018

ADVANCED COMMUNICATION

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.

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PART – A



Diploma - [All Branches]

Beta Console Education **6 × 5 = 30**

3+

1. Define waveguide. List the types of waveguides.
2. Define average power and peak power.
3. Compare A-scope and PPI displays.
4. Explain apogee and perigee heights with a neat sketch.
5. Define transponders and list the types of satellite transponders.
6. List the remote sensing applications of satellite.
7. Explain VSAT.
8. List the Zigbee network topologies.
9. Explain 1G and 2G mobile systems.



Diploma Question Papers [2015-19]

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PART – B

 $7 \times 10 = 70$

10. Explain construction and working of two cavity klystron.
11. Explain the construction and working of an IMPATT diode.
12. Explain the working of FM-CW Radar.
13. Sketch the block diagram of MTI Radar & explain its working.
14. Explain LEO, MEO and GEO satellite.
15. (a) Explain methods of increasing the channel capacity of a satellite.
(b) Explain power sub-system of a satellite.
16. Explain DTH system with neat figure.
17. Explain the operation of GSM architecture with neat sketch.
18. Explain the features of Wi-Fi & Hot Spot technologies.
19. (a) Explain the applications of zigbee.
(b) Illustrate the cell-splitting and cell selloring.

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