

1234**Code : 15EE43T**

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IV Semester Diploma Examination, Nov./Dec. 2017

COMMUNICATION ELECTRONICS & COMPUTER NETWORKS

Time : 3 Hours]**[Max. Marks : 100**

- Note :** (i) Answer any **six** questions from Part – A. Each question carries **5** marks.
(ii) Answer any **seven** questions from Part – B. Each question carries **10** marks.

PART – A

1. Explain the concept of amplitude modulation.
2. Draw the block diagram of superheterodyne receiver.
3. List the advantages of optical fiber cable.
4. List the types of cavity resonators with applications.
5. Sketch the block diagram of satellite earth station.
6. Explain the concept of GIS.
7. Define :
 - (i) Channel Capacity
 - (ii) Bandwidth
 - (iii) Baud rate
 - (iv) Bit rate
 - (v) Modem
8. Explain the working of mobile station.
9. Compare Cat 5e with Cat 6 transmission media.

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PART – B

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|-----|--|----|
| 10. | Explain with neat sketch the propagation of | 10 |
| | (i) Ground wave | |
| | (ii) Sky wave | |
| | (iii) Space wave | |
| 11. | (a) Explain half-duplex and full-duplex communication with examples. | 4 |
| | (b) Explain the working of photo-diode optical receiver with a neat diagram. | 6 |
| 12. | (a) Explain the need for modulation. | 4 |
| | (b) Explain with diagram the working of horn-antenna. | 6 |
| 13. | (a) Explain the basic concept of TDM. | 5 |
| | (b) Explain the multimode optical fiber cable. | 5 |
| 14. | (a) List the advantages of microwaves communication. | 4 |
| | (b) Explain satellite sub-system with block diagram. | 6 |
| 15. | (a) Explain differential GPS with a diagram. | 6 |
| | (b) Differentiate serial and parallel data transmission. | 4 |
| 16. | (a) Explain the working of AM diode-detector with circuit diagram. | 6 |
| | (b) List the advantages and disadvantages of star topology. | 4 |
| 17. | (a) Explain geo-synchronous orbit. | 5 |
| | (b) Explain GSM operation. | 5 |
| 18. | (a) Explain different network topologies. | 4 |
| | (b) Explain TCP/IP model with diagram. | 6 |
| 19. | (a) Explain the concept of BPSK modulator. | 5 |
| | (b) State the function of Router and Repeater. | 5 |

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