

1310**Code : 15EE43T***Register
Number*

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IV Semester Diploma Examination, Nov./Dec.-2018**COMMUNICATION AND COMPUTER NETWORKS****Time : 3 Hours]****[Max. Marks : 100**

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

PART – A**BETA CONSOLE!**

Diploma - [All Branches]

Beta Console Education

3+

1. Explain the Basic communication system with the help of Block diagram. **5**
2. Explain the diode amplitude modulator with circuit diagram. **5**
3. Explain the working of photodiode optical receiver with diagram. **5**
4. Sketch the Strip line and Micro Strip used in microwave communication. **5**
5. List the applications of satellite communication. **5**
6. Differentiate serial and parallel Data transmission mode. **5**
7. Draw the diagram of FSK modem. **5**
8. List the advantages and disadvantages of Star network topology. **5**
9. Draw the TCP/I model layer diagram. **5**

Diploma Question Papers [2015-19]

Beta Console Education

3+

PART - B

10. (a) Define Baseband transmission and modulation. 4
(b) Explain the working of diode detector circuit diagram with wave forms. 6
11. Explain AM and FM modulation with wave forms. 10
12. (a) Explain with block diagram transmitting end of FDM system. 8
(b) Write the expression for characteristic impedance of co-axial cable. 2
13. (a) List the different types of transmission lines. 3
(b) Explain Sky wave and Space wave propagation with neat diagram. 7
14. (a) List the benefits of fiber optic cable over conventional electric cable. 5
(b) Explain the basic construction of fiber optic cable with diagram. 5
15. Explain working of two cavity Klystron amplifier with diagram. 10
16. Explain the function of each block of Satellite Sub-system with a block diagram. 10
17. Explain GSM System architecture with a neat block diagram. 10
18. (a) Compare 2G and 3G technology of Mobile Communication. 4
(b) Explain working of the BPSK modulator with Circuit diagram. 6
19. (a) Define with an example to each : 6
(i) LAN
(ii) MAN
(iii) WAN
(b) List the different types of Ethernets. 4