1138

Code : 15EC44T

IV Semester Diploma Examination, April/May-2017

DATA COMMUNICATION & COMPUTER NETWORKS
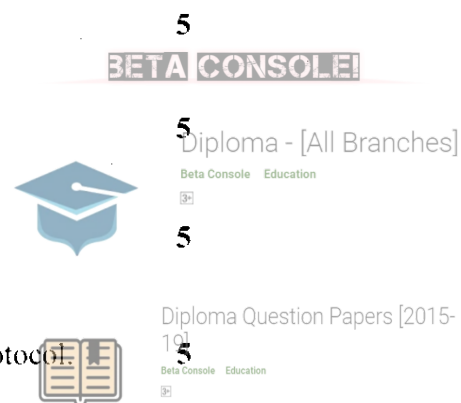
Time : 3 Hours | **[Max. Marks : 100**

Note :   (i)   Answer any **six** questions from **Part-A**.

(ii)   Answer any **seven** full questions from **Part-B**.

PART – A

1.   Name the basic network Topologies and write advantage of each type.   **5**

2.   Explain the concept of circuit switching.   **5**

3.   Define frame and write a note on errors control and flow control.   **5**

4.   Write the difference between connection oriented and connection less protocols.   **5**

5.   List the features of wireless LANS.   **5**

6.   Write the features of TCP/IP.   **5**

7.   Name the ATM layer and their functions.   **5**

8.   Write a note on Modems.   **5**

9.   With diagram explain the functions Bridge connector.   **5**

PART – B

10. (a) Define the forms of data representation.   5

   (b) Explain bus topology.   5

11. Explain OSI model in detail.   10

12. (a) Explain the working of token ring network.   5

   (b) Describe self healing mechanism in FDDI network.   5

13. (a) Explain the Basic concepts of cellular Telephony.   5

   (b) Explain WIMAX.   5

14. (a) Explain CSMA/CD with flow chart.   5

   (b) Explain layered model of TCP/IP.   5

15. (a) Describe the relationship between TCP and IP.   5

   (b) Explain Dotted Decimal notation of IP address.   5

16. (a) Differentiate IPV4 and IPV6.   5

   (b) Explain UDP format.   5

17. (a) Explain the working DNS server.   5

   (b) Explain the working of File Transfer Protocol.   5

18. (a) Explain the functions of Frame relay.   5

   (b) Write a note on E-mail.   5

19. (a) Explain dial up internet access method.   5

   (b) Explain DSL functions.   5