

TDC Even Semester Exam., 2019

COMPUTER APPLICATION
(Honours)

(6th Semester)

Course No. : BCAC-601

(**Computer Networks and Data Communication**)

Full Marks : 35

Pass Marks : 12

Time : 2 hours

*The figures in the margin indicate full marks
for the questions*

Answer **one** question from each Unit

UNIT—I

1. (a) Answer the following in short : 1×3=3
(i) Write the equation of signal.
(ii) Which topology has multiple levels?
(iii) What is circuit switching?
- (b) Draw the diagram of OSI model. 4
2. (a) What is carrier signal? Is it analog or digital? 2

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(Turn Over)

- (b) Write properties of fibre optic cable. 2
- (c) Draw the diagram of star and ring topology, and compare them. 3

UNIT—II

3. (a) Find out the hamming distance of 11001100 and 00111100. 2
- (b) Compare between TDMA and FDMA. 3
- (c) Write the properties of LAN. 2
4. (a) What do you mean by odd parity? Give example. 2
- (b) Find out the equivalent binary code the polynomial
 $x^4 \ x^2 \ x \ 1$ 2
- (c) Write a short note on satellite networks. 3

UNIT—III

5. (a) Compare between unicast and multicast. 2
- (b) Describe IP classes in detail. 5
6. (a) Is there any equivalent IP number for website address? Give example, if any. 2

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(Continued)

- (b) What is the main function of a router? 2
- (c) If a switch has 8 ports, how many switches are required to connect 50 computers? 3

UNIT—IV

7. (a) Compare between UDP and TCP. 3
- (b) Draw the diagram of TCP header for a network packet data. 4
8. (a) Explain flow control mechanism in transport layer. 3
- (b) How to measure the performances of networks? 4

UNIT—V

9. Write short notes on the following : 2+2+3=7
- (a) Electronic Mail Server
- (b) Domain Name System
- (c) HTTP GET-Post Method
10. Explain any three security arrangements in computer network in detail. 7

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