BCA-14

Data Communication and Computer Networks

Bachelor of Computer Application (BCA-11/16/17)

5th Semester Examination June 2022

Time : 2 Hours   Max. Marks : 80

Note : This Paper is of Eighty (80) marks divided into two (02) Section A and B. Attempt the questions contained in these sections according to the detailed instructions given there in.

Section-A

(Long Answer-type questions)

Note: Section 'A' contains Five (05) Long-answer type questions of Twenty (20) marks each. Learners are required to answer any two (02) questions only.

$$(2 \times 20 = 40)$$

Q.1.   What is computer network? What are the goals that achieved through Computer Networks? Explain with suitable examples.

P.T.O.

Q.2 What is ISO-OSI reference model? Explain each layer with suitable diagram.

Q.3 What is transmission media? What is guided and unguided media? Explain with suitable example.

Q.4 What is Ethernet? Explain its basic features and types with suitable figure and examples.

Q.5 What is Intranet and Extranet? Explain with suitable example and diagram.

Section-B

(Short Answer-type questions)

Note: Section 'B' contains Eight (08) Short-answer type questions of ten (10) marks each. Learners are required to answer any four (04) questions.

(4 x 10 = 40)

Q.1   What is search engine? Explain any one search engine with its features.

Q.2   What is gateway? Explain its functionality with suitable diagram.

Q.3   What is the differences between active Hub and Passive Hub?

Q.4   What is BNC connector?

Q.5   What is connectionless service? Explain with suitable example.

Q.6   What is simplex communication protocol? Explain with suitable example.

Q.7   What is multi mode propagation mode? Explain with suitable diagram.

Q.8   Explain the IEEE802.3 frame format with proper diagram.

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