BACHELOR OF COMPUTER

APPLICATIONS (BCA)

(PRE-REVISED)

Term-End Examination

June, 2020

CS-68 : COMPUTER NETWORKS

Time : 2 Hours   *Maximum Marks : 60*

Note : (*i*) *Question No. 1 is compulsory.*

(*ii*) *Attempt any three questions from the rest.*

1. (a) Explain briefly the goals of computer networks. Also list any *four* specified applications of computer networks.   5

(b) Explain IEEE Standard 802.3 and Ethernet.   5

(c) What is polling network ? Briefly explain polling based MAC protocol.   5

(d) Explain the purpose of using repeaters. Illustrate this with the help of suitable diagram.   5

(e) On which layer of OSI model router operates ? Exlain router addressing scheme.   5

(f) Differentiate between baseband communication and broadband communication.   5

2. (a) What is a coaxial cable ? Describe. How is it different from twisted pair cables ?   5

(b) Describe the use of ISDN and also mention any *two* advantages of it.   5

3. (a) What is packet switching ? How is it different from circuit switching ?   5

(b) Explain the use of DNS with the help of an example.   5

4. (a) What is sliding window technique ? Briefly explain selective repeat sliding window technique. 5

(b) Explain the main tasks of session layer of OSI model. 5

5. Write short notes on the following :

$$4 \times 2\frac{1}{2} = 10$$

(i) WWW

(ii) ATM protocol

(iii) Local and remote Bridges

(iv) Multiplexing

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