

Seat	
No.	

Set : A

B.C.A. (Part-II) (Semester-III) (CBCS) Examination

Oct./Nov. - 2023

College Name : Kamala College, Kolhapur

Subject Name : Computer Network and Internet

Subject Code : 83375

Day and Date : Wednesday 29/11/2023

Time : 10.30 a.m. to 01.30 p.m.

Total Marks : 70

Period : 03 Hours

Pages : 02



Instructions:

1. Que.1 and Que. 6 are compulsory and attempt any three Questions from Que. No. 2 to Que. No. 5
2. Figures to the right indicate marks.

Q 1) a. Multiple Choice Questions.

[10]

- 1) Which type of topology is best suited for large businesses which must carefully control and coordinate the operation of distributed branch outlets?
a. Ring b. Local area c. Hierarchical d. star
- 2) The location of a resource on the internet is given by its?
a. Protocol b. URL c. E-mail address d. ICQ
- 3) Which software prevents the external access to a system?
a. Firewall checker b. Gateway c. Router d. Virus
- 4) Which one of the following is not a network topology?
a. Star b. Ring c. Bus d. Peer to Peer
- 5) The length of an IPv6 address is?
a. 32 bits b. 64 bits c. 128 bits d. 256 bits
- 6) In specific, if the systems use separate protocols, which one of the following devices is used to link two systems?
a. Repeater b. Gateway c. Bridge d. Hub

7) On a simplex data link, which of the following is a possible error recovery technique?

- a. Backward error correction (BEC)
- b. The use of hamming codes
- c. Automatic Repeat Request (ARQ)
- d. Downward error correction (DEC)

8) In which of the following switching methods, the message is divided into small packets?

- a. Message switching
- b. Packet switching
- c. Virtual switching
- d. None of the these

9) Which of the following statement correct about the cipher in cryptography?

- a. It is a method for performing encryption and decryption
- b. It is used to establish the network connection
- c. It is a message event
- d. All of the these

10) MAC address is also called _____.

- a. Physical address
- b. Logical address
- c. Source address
- d. Destination address

Q1) b. Short answer questions (Any two out of three). [10]

- 1. Describe various services provided by data link layer.
- 2. Explain Peer to Peer architecture.
- 3. Message switching

Q2) Explain in brief simplex, half – duplex and full – duplex data flow. [10]

Q3) Explain in brief TCP/IP reference model. [10]

Q4) Explain in brief routing and explain shortest path distance routing. [10]

Q5) Explain in brief guided transmission media. [10]

Q 6) Write short notes on. (Any Four out of Six) [20]

- a) File transfer protocol
- b) Packet switching
- c) Stop & wait protocol
- d) Client server architecture
- e) Data link layer in OSI model.

