

Seat	
No.	

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Kamala College, Kolhapur
(Autonomous)
B.C.A. (Part-II) (Semester-III)
Examination March/April - 2024
Computer Network and Internet
Subject Code: CC 316



Day and Date: Thursday, 18/04/2024

Total Marks: 80

Time: 12.00 p.m. to 03.00 p.m.

Instructions:

1. Que.1 and Que. 8 are compulsory and attempt any three Questions from Que. No. 2 to Que. No. 7
2. Figures to the right indicate marks.

Q 1) Multiple Choice Questions.

[12]

- 1) Which software prevents the external access to a system?
a. Firewall b. Gateway c. Router d. Virus checker
- 2) The length of an IPv6 address is?
a. 32 bits b. 64 bits c. 128 bits d. 256 bits
- 3) "Parity bits" are used for which of the following purposes?
a. Encryption of data b. To transmit faster
c. To detect errors d. To identify the user
- 4) The private key in asymmetric key cryptography is kept by?
a. Sender b. Receiver
c. Sender and Receiver d. None of the these
- 5) 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)

- 6) Which of the following switch methods creates a point-to-point physical connection between two or more computers?
- a. Message switching
 - b. Packet switching
 - c. Circuit switching
 - d. None of the these
- 6) In a network, participating computers are referred to as:.
- a. Physical address
 - b. Logical address
 - c. Source address
 - d. Destination address
- 7) An _____ standard that covers all aspects of network communications is the Open Systems Interconnection model.
- a. ANSI
 - b. EIA
 - c. ISO
 - d. OSI
- 8) In _____ process, layer n on the sending machine communicates with layer n on the receiving machine.
- a. an interface-to-interface
 - b. a peer-to-peer
 - c. a layer-to-layer
 - d. machine-to-machine
- 9) Which one of the following is a network topology?
- a. centralized
 - b. Ring
 - c. server
 - d. Peer to Peer
- 10) What kind of transmission medium is most appropriate to carry data in a computer network that is exposed to electrical interferences?
- a. Unshielded twisted pair
 - b. Coaxial cable
 - c. A microwave link
 - d. A fiber optical cable
- 12) When the mail server sends mail to other mail servers it becomes ____ ?
- a. SMTP client
 - b. SMTP server
 - c. Peer
 - d. Master

Q2) Explain in brief topology and types of topology in computer networking. [16]

Q3) a) Explain in brief stop and wait protocol. [8]

b) Explain in brief Packet Switching. [8]

Q4) a) Explain in brief what is Internet? [8]

How the internet works and role of web browser and search engine ?

b) Explain in brief serial and parallel transmission. [8]

Q5) a) Explain in brief OSI Reference model in computer networking. [8]

b) Explain in brief simplex , half duplex and full duplex transmission modes. [8]

Q6) Explain in brief guided transmission media and unguided transmission Media. [16]

Q7) a) Explain in brief computer network & components of networks.

b) Explain in brief working of Application layer of OSI reference model. [8]

Q 8) Write short notes on. (Any Four out of Six) [20]

- 1) Shortest path algorithm
- 2) UDP protocol
- 3) Gateway
- 4) IP Address
- 5) Message switching
- 6) Network layer in OSI model


