

Seat	
No.	

Total No of Pages: 03

**Kamala College, Kolhapur**

**(Autonomous)**

**B.C.A. (Part-II) (Semester-III)**

**Examination Nov. /Dec. - 2023.**

**Computer Network and Internet**

**Subject Code: CC 316**



**Day and Date: Wednesday 29/11/2023**

**Total Marks: 80**

**Time: 08.00 a.m. to 11.00 a.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 of the following transmission directions listed is not a legitimate channel?  
a. Simplex      b. Half Duplex      c. Full Duplex      d. Double Duplex
- 2) "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
- 3) Which software prevents the external access to a system?  
a. Firewall      b. Gateway      c. Router      d. Virus checker
- 4) Which of the following methods is used to broadcast two packets on the medium at a time?  
a. Collision      b. Synchronous  
c. Asynchronous      d. None of the above
- 5) 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



- 6) MAC address is also called \_\_\_\_\_.
- a. Physical address
  - b. Logical address
  - c. Source address
  - d. Destination address
- 7) ARPANET stands for \_\_\_\_\_.
- a. Advanced Recheck Projects Agency Internet
  - b. Advanced Recheck Projects Agency Network
  - c. Advanced Research Projects Agency Network
  - d. Advanced Research Projects Agency Internet
- 8) Which of the following devices is not a networking device?
- a. Hub
  - b. Switch
  - c. Bridge
  - d. None of the these
- 9) Which one of the following is not a network topology?
- a. Star
  - b. Ring
  - c. Bus
  - d. Peer to Peer
- 10) Which of the following cannot be used as a medium for 802.3 ethernet?
- a. A thin coaxial cable
  - b. A twisted pair cable
  - c. A microwave link
  - d. A fiber optical cable
- 11) What is the maximum data transfer rate of the optical fiber wire?
- a. 50 kbps
  - b. 1000 kbps
  - c. 1000 Mbps
  - d. None of the these
- 12) Which of the following layers does the HTTP protocol work on?
- a. Physical layer
  - b. Data-link layer
  - c. Application layer
  - d. None of the these

Q2) Explain in brief guided transmission media and unguided transmission

Media.

[16]

Q3) a) Explain in brief serial and parallel transmission.

[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 ?

b) Explain in brief stop and wait protocol.

[8]

Q5) a) Explain in brief computer network & components of networks.

[8]

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



Q6) Explain in brief topology and types of topology in computer networking. [16]

Q7) a) Explain in brief TCP/IP model in computer networking. [8]

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

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

- 1) Shortest path algorithm
- 2) TCP protocol
- 3) Domain name system
- 4) Message switching
- 5) repeater
- 6) Network Layer in OSI model



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