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SHIVAJI UNIVERSITY, KOLHAPUR
DATTAJIRAO KADAM ARTS, SCIENCE AND COMMERCE COLLEGE, ICHALKARANJI
B.C.A. Part-II Semester-III (CBCS) Examination, March-2024
Computer Network and Internet

Sub. Code: 83375

Day and Date: Wednesday, 10-04-2024

Total Marks: 70

Time: 10:30 a.m. to 01:30 p.m.

Instructions: 1) Q. 1 and Q. 6 are compulsory

2) Attempt any three from Q. 2 to Q. 5

Q. 1. A) Select the correct alternative

[10]

i) A collection of computers connected together is called as _____

- | | |
|---------------|-----------------------|
| a) Processing | b) Network |
| c) Chatting | d) Centralized system |

ii) A _____ is the physical path over which a message travels.

- | | |
|-----------|-------------|
| a) Medium | b) Path |
| c) Route | d) Protocol |

iii) A network that covers a large geographic distance such as a country is called a _____.

- | | |
|------------------------|------------------------|
| a) Distributed network | b) Wide area network |
| c) Local area network | d) Centralized network |

iv) An arrangement in which data can be received and sent simultaneously is called _____.

- | | |
|----------------|-----------------|
| a) Simplex | b) Full-duplex |
| c) Half-duplex | d) Multi-duplex |

v) Physical or logical arrangement of network is _____

- | | |
|---------------|------------|
| a) Topology | b) Routing |
| c) Networking | d) Control |

vi) In _____ transmission of data a group of n bits are sent simultaneously.

- | | |
|-----------------|----------------|
| a) Parallel | b) Serial |
| c) Asynchronous | d) Synchronous |

- vii) The third layer of OSI model is called as _____
- | | |
|----------------------|--------------------|
| a) network layer | b) session layer |
| c) application layer | d) transport layer |
- viii) How many layer does OSI Reference Model has?
- | | |
|------|------|
| a) 4 | b) 5 |
| c) 6 | d) 7 |
- ix) _____ topology requires a multipoint connection.
- | | |
|---------|---------|
| a) Star | b) Mesh |
| c) Ring | c) Bus |
- x) DNS is the abbreviation of _____
- | | |
|-------------------------|----------------------------|
| i) Dynamic Name System | ii) Dynamic Network System |
| iii) Domain Name System | iv) Domain Network System |

Q.1. B) Write a short answer of the following (Any 2) [10]

- a) What is LAN? Explain its advantages.
- b) What is infrared transmission?
- c) Write difference between connection oriented and connectionless services.

Q.2. Describe star topology with diagram. [10]

Q.3. Describe various internet security threats. [10]

Q.4. Explain LAN, WAN and MAN in detail. [10]

Q.5. Explain TCP/IP model in detail. [10]

Q.6. Write a short note on (Any 4) [20]

- a) Packet Switching
- b) Ring topology
- c) Sliding Window Protocol
- d) Repeater
- e) Difference between Intranet and Extranet
- f) Uses of computer networks.