CB
60:40

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SPECIALIZATION IN CYBER SECURITY (CS)

EXAMINATION : DECEMBER -2022

SEMESTER - I

Sub: Computer Fundamentals Networking

(BCA- 140-18/140-20/BCA-CS-140-20)

Date :27/12/2022 **Total Marks : 60** **Time: 10.00 am to 12.30 pm**

Instructions:

1. *All questions are compulsory unless and otherwise stated.*
2. *Bold figures to the right of every question are the maximum marks for that question.*
3. *Candidates are advised to attempt questions in order.*
4. *Answers written illegibly are likely to be marked zero.*
5. *Use of scientific calculators, Log tables, Mollier Charts is allowed.*
6. *Draw neat and labelled diagrams wherever necessary.*

Q.1. Fill in the blanks. **(5)**

1. Repeaters works at _____ layer of OSI model.

a) Data link layer b) session

c) Physical layer d) Network layer

2. Boolean Algebra uses _____ digits

a) Binary b) Hexadecimal

c) Octal d) Decimal

3. The _____ layer is responsible for process-to-process delivery of the entire message

a) Transport layer b) Network layer

c) Application layer d) Physical layer

4. IPv4 Class A ranges from

a) 128-191 b) 1-126

c) 192-223 d) 224-239

5. Base of Octal number system is _____

a) 7 b) 2

c) 8 d) 16

Q.2. State True/False. **(5)**

1. Switches are uses in bus topology.

2. Client server networks provides centralized administration and management

3. Hub is a multiport repeater

4. Keyboard is an output device

5. An Algorithm represents the logic of the processing to be performed.

Q.3. Answer the following. (Solve any 5) **(10)**

1. Define computer data
2. Give difference between impact printers and non impact printers.
3. What is the function of an Input Unit?
4. Define Server.
5. What is peer to peer network?
6. Convert $(952)_{10} = (?)_{8}$

Q. 4. Answer the following in detail. (Solve any 6) **(30)**

1. Explain types of printer in detail
2. Explain types of network in detail.
3. Explain Name resolution. What is the use of DNS server?
4. Write a note in Intranet and Extranet.
5. Explain AND and OR gate in detail.
6. Explain primary storage in memory.
7. Write short note on various pointing devices.

Q. 5. Answer the following in detail. (Solve any 1) **(10)**

1. Explain network topology in detail.
2. What is an IP address? Explain the classes of IP address.