TILAK MAHARASHTRA VIDYAPEETH, PUNE BACHELOR OF COMPUTER APPLICATIONS (B.C.A.) SPECIALIZATION IN CYBER SECURITY (CS) EXAMINATION : MAY - 2024 SEMESTER - I

Sub: Computer Fundamentals Networking/ Computer & Network Fundamentals (BCA- 140-18/140-20/BCA- CS-140-20/BCAC23-103)

| Date | : 22/05/2024 | Total Marks: 60 | Time: 2.00 pm To 4.30 pm |
|-------|--|--|---|
| | Bold figures to the a Candidates are adv Answers written ille Use of scientific cal | ompulsory unless and otherwise sta right of every question are the max vised to attempt questions in order. egibly are likely to be marked zero lculators, Log tables, Mollier Char elled diagrams wherever necessary | ximum marks for that question. rts is allowed. |
| Q.1. | Fill in the blanks. | | (5) |
| 1. | IP protocol works at layer | | |
| | a) Physical | b) Dat | a link |
| | c) Network | d) Tra | nsport |
| 2. | is a multipor | | L |
| | a) NIC | b) hub |) |
| | c) router | d) swi | |
| 3. | The input of NOT gate is 0 then output will be | | |
| | a) 2 | b) 0 | |
| | c) 1 | d) 3 | |
| 4. | is IEEE standard for Wireless Networks | | |
| | a) 802.2 | b) 802 | 2.3 |
| | c) 802.11 | d) 802 | 2.15 |
| 5. | The is a picking device | | |
| | a) scanner | b) key | board |
| | c) light pen | d) prir | nter |
| Q.2. | State True/False. (5) | | |
| 1. | WiFi networks has unlimited network range | | |
| 2. | Gateway is a device that connect two or more networks | | |
| 3. | Base of Hexadecimal number system is 8 | | |
| 4. | All devices share a single communication line or cable in bus topology | | |
| 5. | Mouse is output device | | |
| Q.3. | Answer the following. | (Solve any 5) | (10) |
| 1. | What is the use of FTP | and HTTP protocols? | |
| 2. | What are advantages of | f Internet? | |
| 3. | What is server? | | |
| 4. | What are types of keyboard? | | |
| 5. | What is Wi-Fi standards used in wireless network? | | |
| 6. | What is function of inp | ut unit and output unit? | |
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Q. 4. Answer the following in detail. (Solve any 6)

- 1. Explain types of network.
- 2. Write an algorithm and draw flowchart to find greater number among two.
- 3. Convert the following: i) $(435)_{10} = (?)_{16}$ ii) $(11001010)_2 = (?)_8$
- 4. Compare between IPv4 AND IPv6
- 5. Explain NOR and NAND gates using truth table.
- 6. What is an IP address? Explain IP classes of it.
- 7. Explain any two primary storage.

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

- 1. Short Note on Scanner
- 2. Explain OSI Reference Model.

(30)

(10)