ZD-10787

NEPVD—103—2024

FACULTY OF SCIENCE & TECHNOLOGY

B.Sc. (NEP) (CS) (First Year) (First Semester) EXAMINATION

NOVEMBER/DECEMBER, 2024

COMPUTER SCIENCE

SCSCMT-1102

(Computer Network)

(Monday, 16-12-2024)   **Time : 10.00 a.m. to 12.00 noon**

Time—2 Hours   *Maximum Marks*—40

N.B. :— (i) Question No. 1 is compulsory.

    (ii) From Q. Nos. 2 to 5 solve any *three* questions.

    (iii) Figures to the right indicate full marks.

    (iv) Assume suitable data if necessary.

    (v) Use of any electronic media such as mobile phone, digital diary & electronic calculator is not permitted.

1. Attempt the following (2 marks each) :   10

    (a) Explain types of Network.

    (b) Explain IP Address Classes.

    (c) Explain SMTP in detail.

    (d) Explain Repeater.

    (e) What is mesh topology ?

2. Attempt the following (any *two*) (5 marks each) :   10

    (a) Explain Twisted pair cable and its types.

    (b) What is Topology ? Explain star topology.

    (c) Explain serial transmission mode.

3. Attempt the following any *two* (5 marks each) :   10

    (a) Explain types of Ethernet.

    (b) Explain Internet *versus* Intranet in detail.

    (c) Explain IPv4 *Vs* IPv6.

4. Attempt the following (any *two*) :   10

    (a) Explain OSI/ISO reference model.

    (b) What is Switching ? Explain packet switching.

    (c) Explain DHCP in detail.

5. Attempt the following (any *two*) :   10

    (a) Explain NIC card in detail.

    (b) Explain wifi and wimax in detail.

    (c) Explain Internet of Things (IOT).