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**VA—323—2024**

**FACULTY OF SCIENCE AND TECHNOLOGY**

**B.Sc. (Second Year) (Fourth Semester) EXAMINATION**

**NOVEMBER/DECEMBER, 2024**

**(New/CBCS Pattern)**

**COMPUTER SCIENCE**

**Paper VIII**

**(Computer Networks)**

**(Monday, 23-12-2024)**

**Time : 2.00 p.m. to 4.00 p.m.**

*Time—Two Hours*

*Maximum Marks—40*

*N.B. :— (i) Attempt all questions.*

*(ii) Answer suitable data, if necessary.*

1. (a) What is Computer Network ? Explain its applications and discuss TCP/IP model in detail. 15

*Or*

(b) Explain the structure of telephone system. 8

(c) What is Switching ? Explain types of switching. 7

2. (a) Enlist the various network devices. Explain any three network devices. 15

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*Or*

- (b) Explain in detail domain name system. 8
- (c) Explain FTP protocol. 7
3. Write short notes on (any *two*) : 10
- (a) Data transmission modes
- (b) Types of networks
- (c) Fiber optics
- (d) Firewall.