

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATIONS SP/2025)**

**CLASS: BBA
BRANCH: BBA**

**SEMESTER : VI
SESSION : SP/2025**

SUBJECT: MT311 - COMPUTER NETWORK

TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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|--------|--|-------|----|
| Q.1(a) | Explain the following : | [2] 1 | 2 |
| | i. Network Criteria | | |
| | ii. Protocol & Standard | | |
| Q.1(b) | Give a brief comparative account of business and home application of computer and mobile and its impact on social issues. | [3] 2 | 2 |
| Q.2(a) | With diagram give a comparative account of network topology. As a ICT in-charge which topology you will implement in your organization - educational or geographically separated office (main and branch in different cities). | [2] 1 | 2 |
| Q.2(b) | Give a brief account of channels of guided and wireless media with diagram. | [3] 1 | 1 |
| Q.3(a) | With diagram sketch the working of Email when you wish to send a mail to your friend in USA. | [2] 2 | 2 |
| Q.3(b) | Sketch the evolution of LAN & WAN with the devices required for each. | [3] 2 | 2 |
| Q.4(a) | Differentiate among HUB, SWITCH & ROUTER in terms of data transfer. | [2] 1 | 2 |
| Q.4(b) | “Evolution of TCP/IP was the turning point in the Web- Technology & Internet” - Justify and compare with OSI model. | [3] 2 | 3 |
| Q.5(a) | The period of a signal is 100 ms. What is its frequency in kilohertz? | [2] 2 | 2 |
| Q.5(b) | Explain bit rate, frequency and bandwidth with example & example. | [3] 2 | 2 |

:::27/02/2025 E:::