**INTERNAL ASSIGNMENT - 1**

**Course Code : -** 23OMC102 **Last Date of Submission: -**

**Course Title : -** COMPUTER NETWORKS

**Assignment No. : -** 1  **Maximum Marks:** 30

**Note:**

1. The assignment has two parts, A and B. Part A is of 10 MCQ-type Questions of 1 mark each.
2. Part B is of 20 Marks having 8 Descriptive Questions. Attempt any 5 out of them.

**Part-A (10 x 1 = 10 Marks)**

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| **Q.No.** | **Question** |
| 1  Ans A | **A mesh is an example of**   1. Topology 2. Architecture 3. Protocol 4. Service |
| 2  Ans B | **Which of the following device uses MAC address to forward packets**   1. Hub 2. Switch 3. Router 4. Modem |
| 3  Ans C | The data transmission rate is highest in A. Copper wire  B. Coaxial Cable  C. Optical Fiber  D. None of the above |
| 4  Ans A | **In the OSI model, which performs error control?**   1. Data Link Layer 2. Transport Layer 3. Session Layer 4. Presentation Layer |
| 5  Ans A | **The switching method used in the traditional telephone network is**   1. Circuit Switching 2. Packet Switching 3. Frequency Switching 4. D. Space Switching |
| 6  Ans C | **Application layer protocol for sending and receiving emails**   1. HTTP 2. FTP 3. SMTP 4. D. None of the above |
| 7  Ans D | **Which of these is not an FTP command?**   1. USER 2. PASS 3. STOR 4. D. PATCH |
| 8  Ans A | **The port used for SMTP communication is**   1. 25 2. 80 3. 586 4. D. None of the above |
| 9  Ans B | **To stop the message transmission, POP3 uses \_\_\_ command**   1. FINISH 2. QUIT 3. CLOSE 4. D. None of the above |
| 10  Ans A | **MIME protocol is used to**   1. Attach multimedia to a mail message 2. Encrypt a message 3. Authenticate the user’s identity 4. D. None of the above |

**Section B (20 marks)**

Attempt any five questions from Q1 to Q8. (5 x 4 = 20 Marks)

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| **Q.No.** | **Question** | **CO** |
| 1 | Define Data Communication. Briefly explain its five components. | 1 |
| 2 | Describe the important network topologies. | 3 |
| 3 | List some of its services of Internet | 1 |
| 4 | What are the different media used for data transmission? Describe them. | 2 |
| 5 | Discuss Web Caching and its benefits | 1 |
| 6. | Write a short note on HTTP protocol | 2 |
| 7 | Explain the working of IMAP protocol | 2 |
| 8 | Discuss how an E-mail system operates. | 1 |