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| **VELAMMAL COLLEGE OF ENGINEERING AND TECHNOLOGY, MADURAI – 625 009** |
| **Department of Computer Science and Engineering** |
| ***INTERNAL ASSESSMENT - I*** |

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| **Branch** | CSE | **Year/Sem./Sec.** | II/IV/A,B&C |
| **Course Code** | **21CS209** | **Date** | 28-02-2024 |
| **Course Name** | **INTERNET PROGRAMMING** | **Max. marks** | 50 |
| **Course Incharge** | Mrs.S.PadmaDevi , Ms.J.ShanthalakshmiRevathy,Mrs. C.Swedheetha | **Time** | 01:30 Hours |

PART A

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| **Sl.No** | **QUESTION** | **K** | **CO** | **Marks** |
| 1 | Difference Between host-to-host communication and Process to Process Communication. | K1 | CO1 | 2 |
| 1 | List the three ranges of ICANN with details. | K2 | CO1 | 2 |
| 1 | State the Congestion Control process in TCP. | K2 | CO1 | 2 |
| 2 | Draw the TCP Segment format and control flag. | K1 | CO1 | 2 |
| 2 | Define port numbers. | K1 | CO1 | 2 |
| 2 | What is the TCP Three-Way Handshaking Process? | K1 | CO1 | 2 |
| 3 | Define SYN Flooding Attack. | K1 | CO1 | 2 |
| 3 | Draw the state diagram for TCP Connection establishment. | K1 | CO1 | 2 |
| 3 | Difference between Connectionless and Connection-Oriented Protocol. | K1 | CO1 | 2 |
| 4 | Draw the UDP header format. | K1 | CO1 | 2 |
| 4 | Define Stream Control Transmission Protocol. | K1 | CO1 | 2 |
| 4 | Draw the architecture diagram for web client (Browser). | K1 | CO1 | 2 |
| 5 | List the objects of webpages. | K2 | CO1 | 2 |
| 5 | List the Three categories of web Documents. | K2 | CO1 | 2 |
| 5 | Difference between the Nonpersistent versus Persistent Connections. | K2 | CO1 | 2 |
| 6 | What is the use of File Transfer Protocol (FTP)? | K2 | CO1 | 2 |
| 6 | Define Electronic Mail. | K2 | CO1 | 2 |
| 6 | List the Mail transfer Phases. | K2 | CO1 | 2 |
| 7 | Define POP3. | K2 | CO2 | 2 |
| 7 | Define IMAP4. | K2 | CO2 | 2 |
| 7 | List the Components of SSH. | K2 | CO2 | 2 |
| 8 | Review about the Local Versus Remote Logging Process in TELNET. | K2 | CO2 | 2 |
| 8 | What is the use of DNS? | K2 | CO2 | 2 |
| 8 | Difference Between host-to-host communication and Process to Process Communication. | K2 | CO2 | 2 |

PART B

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| **Sl.No** | **QUESTION** | **K** | **CO** | **Marks** |
| 9 | 1. Formulate how would you differentiate UDP and TCP?(5)   Describe in detail about flow control in TCP with an example.(8) | K2 | CO1 | 13 |
| 9 | Explain adaptive flow control and retransmission techniques used in SCTP. | K2 | CO1 | 13 |
| 9 | Define UDP. Discuss the operations of UDP. Explain UDP checksum with one example. | K2 | CO1 | 13 |
| 9 | 1. Explain the operation of Go-Back-N protocol.(6)   With a diagram explain about TCP connection management. (7) | K2 | CO1 | 13 |
| 10 | Discuss in details about SNMP. | K2 | CO2 | 13 |
| 10 | Describe the message format, message transfer and the underlying protocol involved in the working of the electronic mail. | K2 | CO2 | 13 |
| 10 | Write in detail about DNS and its frame format. | K2 | CO2 | 13 |
| 10 | Examine your understanding on File Transfer Protocol. | K2 | CO2 | 13 |

PART C

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| **Sl.No** | **QUESTION** | **K** | **CO** | **Marks** |
| 11 | Analyse how reliable and ordered delivery is achieved through TCP. | K3 | CO1 | 8 |
| 11 | Identify and explain the various functionalities of SCTP. | K3 | CO1 | 8 |
| 11 | Analyze the basics of POP3 and IMAP mail access protocols. | K3 | CO1 | 8 |
| 11 | Tabulate the various HTTP request operations. | K3 | CO1 | 8 |