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| Academic Year : 2021-22 | |
| Subject: Computer Networks and Security (310244) | |
| CLASS: T.E. | SEMESTER: V |
| Assignment No.: I | Date of submission: |

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| **Q. No.** | **Question** | **Marks** | **Learning Level** | **CO** | **PO** | **PSO** |
| 1 | Explain in detail OSI and TCP /IP reference model with neat diagrams and write functions of each layer.(with neat diagrams) | 5 | Understanding | C304.1 | 1,2,10,12 | 2 |
| 2 | Write short note on topologies(with neat diagram and advantages, functions,advantages and disadvantages of each)  Bus,Ring,Star,Mesh,Tree | 5 | Applying | C304.1 | 1,2,10,12 | 2 |

**Name & Sign of Subject In-charge**

**P.S.Gaikwad**

**P.Bhujbal**

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| Assignment No.: II | Date of submission: |

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| **Q. No.** | **Question** | **Marks** | **Learning Level** | **CO** | **PO** | **PSO** |
| 1 | Explain with neat diagrams and advantages and disadvantages of each  Stop and Wait ARQ protocol  Go Back N ARQ protocol  Selective repeat ARQ Protocol | 5 | Applying | C304.2 | 1,2,10,12 | 2,3 |
| 2 | Find Hamming distance d?  (00000,11111)  Find minimum Hamming distance dmin?  d(00000,01011)  d(00000,11110)  d(00000,11000) | 5 | Applying | C304.2 | 1,2,10,12 | 2,3 |

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| Assignment No.: III | Date of submission: |

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| **Q. No.** | **Question** | **Marks** | **Learning Level** | **CO** | **PO** | **PSO** |
| 1 | What are the drawbacks of distance Vector Routing and solutions to recover them? | 5 | Analyzing | C304.3 | 1,2,3,4 | 1,2 |
| 2 | A class B network on internet has a subnet mask of 255.255.240.0.what is the maximum number of hosts per subnet? | 5 | Applying | C304.3 | 1,2 | 1,2 |

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| CLASS: T.E. | SEMESTER: V |
| Assignment No.: IV | Date of submission: |

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| **Q. No.** | **Question** | **Marks** | **Learning Level** | **CO** | **PO** | **PSO** |
| 1 | Explain error control and flow control in TCP with example. | 5 | Analyzing | C304.4 | 1,2,3,4 | 1,2 |
| 2 | Define socket? Explain with suitable example the connection between client and server with the help of socket? | 5 | Understanding | C304.4 | 1,2,3,4 | 1,2 |

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| Assignment No.: V | Date of submission: |

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| **Q. No.** | **Question** | **Marks** | **Learning Level** | **CO** | **PO** | **PSO** |
| 1 | Explain in detail E-mail architecture and services? | 5 | Understanding | C304.5 | 1,3 | 1,2 |
| 2 | Discuss the role of SMTP and POP protocol in Email massage transfer? | 5 | Understanding | C304.5 | 1,2,3,4 | 1,2 |

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| CLASS: T.E. | SEMESTER: V |
| Assignment No.: VI | Date of submission: |

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| **Q. No.** | **Question** | **Marks** | **Learning Level** | **CO** | **PO** | **PSO** |
| 1 | Explain security architecture of OSI | 5 | Understanding | C304.6 | 1,3 | 1,2 |
| 2 | Explain IPSec header in detail | 5 | Understanding | C304.6 | 1,3 | 1,2 |

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