|  |  |
| --- | --- |
|  | **NSS COLLEGE OF ENGINEERING, PALAKKAD**  Govt. Aided College Affiliated to APJ Abdul Kalam Technological University Approved by AICTE  ***Department of Computer Science & Engineering***  **CST 303 COMPUTER NETWORKS**  **(FIFTH SEMESTER) (AY:2023-24)**  **TUTORIAL -4** |

**(Answer ALL Questions)**

**MODULE 3**

**Time: 1 Hr**

1. Consider the following subnet. Distance vector routing is used, and the following vectors have just come in to router C: from B: (5, 0, 8, 12, 6, 2); from D: (16, 12, 6, 0, 9, 10); and from E: (7, 6, 3, 9, 0, 4). The measured delays to B, D, and E, are 6, 3, and 5, respectively. What is C’s new routing table? Give both the outgoing line to use and the expected delay



1. Describe the difference between the warning bit method and the Random Early Detection (RED) method.
2. Explain the characteristics of Routing Information Protocol (RIP).

.

1. A computer on a 6-Mbps network is regulated by a token bucket. The token bucket is filled at a rate of 1 Mbps. It is initially filled to capacity with 8 megabits. How long can the computer transmit at the full 6 Mbps?
2. Illustrate the Count to Infinity problem in routing.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Quest.No** | **1** | **2** | **3** | **4** | **5** |
| **COs** | **CO:5** | **CO:5** | **CO:5** | **CO:5** | **CO:5** |
| **POs** | **PO1, PO2,PO3,PSO2** | **PO1, PO2,PO3,PSO2** | **PO1, PO2,PO3,PSO2** | **PO1, PO2,PO3,PSO2** | **PO1, PO2,PO3,PSO2** |

Course Module Coordinator Scrutiny Committee

Coordinator (Chairman & HOD