**SESSION FEB/MAR 2022**

**PROGRAM MCA**

**SEMESTER II**

**COURSE CODE & NAME DCA6204 & ADVANCED COMPUTER NETWORKS**

**SET-I**

**1. Explain the data transfer steps of Frame Relay call control. Explain TCP retransmission strategy.**

**Ans:** Frame Relay is a relatively new technology far better suited for the transmission of the bursty traffic typical for computer networks in comparison to X.25 networks. At first, the Frame Relay technology was standardized by Its Half solved only

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**2. Compare Circuit and Packet Switching with example. Describe some SONET/SDH devices.**

**Ans:** Circuit switching assures dedicated communication link between two stations. Usually this types of networks consists a set of switches connected by a sequence of links. On each physical link, a logical channel is dedicated to the connections. And each link is divided into n channels by using different multiplexing techniques. Circuit switching method follows three steps for a successful communication.

**3. What are the differences between dynamic routes and static routes, explain with example? Explain the functioning of the Open Shortest Path First (OSPF) protocol.**

**Ans:**

|  |  |  |
| --- | --- | --- |
| **Key** | **Static Routing** | **Dynamic Routing** |
| Routing pattern | In static routing, user-defined routes are used in the routing table. | In dynamic routing, routes are updated as per the changes in network. |

**SET-II**

**4. Discuss the problems of symmetric key cryptography, discuss with suitable example. Explain RSA technique with an example.**

**Ans:**

* Few problems of symmetric key cryptography are Key agreement or key distribution key maintenance. To overcome those problems asymmetric key cryptography has been introduced. The most important

**5. Explain following Network Hardware Components:**

* **Network interface card**
* **Hub**
* **Switch**
* **Router**
* **Gateway**

Ans: Networking hardware normally refers to devices supporting to setup a computer network. Typically this includes network interface card, hub, repeater, bridge, switches, routers and gateways etc. Now we will discuss each device separately. Based on the layer in which they operate in a layer these devices

**6. Explain in detail, the Secure Socket layer. Describe the four types of protocol of SSL.**

**Ans:** SSL is a security protocol that was developed by Netscape Communications Corporation, along with RSA Data Security, Inc. The primary goal of the SSL protocol is to provide a private channel between communicating applications, which ensures privacy of data, authentication of the partners, and integrity.

SSL provides an alternative to the