# 2004E124

## **B.Sc. Sem-6 Examination**

#### CC 311

## Electronics (A) Modern Commu.

Time: 2-00 Hours]

April 2022

[Max. Marks: 50

### **SECTION - I**

<ul> <li>Q.I (A) Explain with diagram receive and transmit mode functions in a basic telephone set.  (B) Draw the block diagram of a cordless telephone. Explain Cordless telephone concept frequency allocations.</li> <li>Q.II (A) Explain BORSCHT functions in the Subscriber Interface at the central office with block diagram.  (B) Explain PBX in detail with the help of block diagram.</li> <li>Q.III (A) Explain TDMA and CDMA with diagrams.  (B) Draw block diagram of typical AMPS unit. Give the sequence of operations that occur was person initiates a cellular telephone call.</li> <li>Q.IV (A) Explain cellular concepts and frequency allocation in detail with diagram.  (B) Write short note on advanced cell phones.</li> <li>Q.V (A) Explain FR and ATM packet with figure.  (B) With simplified diagram of the Internet explain Internet Backbone.</li> <li>Q.VI (A) With general block diagram explain routers.  (B) Explain the sequence of operations for accessing data by using the iSCI protocol.</li> </ul>	
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<ul> <li>Q.VII (A) Explain the term Node. Explain WANs, MANs and LANs in detail.</li> <li>(B) Explain E-mail, Internet Access, Groupware, Client-server and Peer-to-peer LANs.</li> </ul>	7 7
Q.VIII (A) With block diagram explain bus topology, mesh topology & other topologies. (B) With diagram explain how Repeaters and Hubs are used in LAN.	7 7
SECTION – II	
Q.IX Attempt any EIGHT  (A) A basic telephone set is an baseband transceiver.  (B) A switch hook is a pole mechanical switch.  (C) Many POPs are connected to multiple IXCs, but in many areas, only one IXC serves a  (D) An alternative to the PBX is known as	<b>8</b> ·
<ul> <li>(E) CDMA is just another name of spectrum.</li> <li>(F) In FDD, frequency channels are assigned for transmit and receive functions.</li> <li>(G) GPRS system is designed to work with phones.</li> <li>(H) EDGE is sometimes referred to as GPRS.</li> </ul>	
<ul> <li>(I) SONET is by far most widely used data transmission network in the United State</li> <li>(J) NAPs provide the links between</li> <li>(K) The host-to-host layer is really</li> <li>(L) IP determines the format of the</li> </ul>	
<ul> <li>(M) PANs are referred to as networks that are set up for a specific single purp</li> <li>(N) MANs are usually fiber-optic rings encircling a city that provide access to use</li> <li>(O) In a peer-to-peer configuration, any PC can serve as either client or</li> <li>(P) Fiber-optic cable is a noncoducting cable consisting of a or plastic center cable.</li> </ul>	ose. rs.