

**B.Sc. Sem.-6 Examination****CC - 311****Electronics****August 2021****[Max. Marks : 50****Time : 2-00 Hours]****SECTION - I**

- Q.I** (A) Discuss about Basic Telephone Set in detail. Explain Switch Ringer and Hybrid Circuit. 7  
(B) Explain BORSCHT functions in the Subscriber Interface with block diagram. 7
- Q.II** (A) Explain the Cordless Phone. Explain its Features & Capabilities. 7  
(B) With the help of block diagram explain Private Telephone System in detail. 7
- Q.III** (A) Explain cellular concepts and multiple access in detail with diagram. 7  
(B) Explain EDGE in detail. What makes EDGE faster than GPRS? 7
- Q.IV** (A) Explain TDMA and SDMA with diagrams. 7  
(B) Draw block diagram of typical AMPS unit. Give the sequence of operations that occur when a person initiates a cellular telephone call. 7
- Q.V** (A) Explain E-mail, File Transfer, WWW, E-commerce, Searches, VoIP and Video over internet protocol. 7  
(B) Discuss Internet Backbone with block diagram. 7
- Q.VI** (A) Explain Frame Relay and Asynchronous Transfer Mode with figure. 7  
(B) Draw and explain basic architecture of a SAN. 7
- Q.VII** (A) Explain the term Node. Explain MANs, LANs and PANs in detail. 7  
(B) With diagram explain how Hubs & Bridges are used in LAN. 7
- Q.VIII** (A) With block diagram explain star topology & ring topology. 7  
(B) Draw and explain types of WLANs. 7

**SECTION – II**

- Q.IX** Attempt any **EIGHT** 8
- (A) A switch hook is a \_\_\_\_\_ pole mechanical switch.
- (B) Full form of MDMF is \_\_\_\_\_.
- (C) The transceivers in both the portable and the base units use \_\_\_\_\_ duplex operation.
- (D) Most PBXs are set up to handle \_\_\_\_\_ or more telephone interconnections.
- (E) In FDD, \_\_\_\_\_ frequency channels are assigned for transmit and receive functions.
- (F) In AMPS, the receiver is typically a \_\_\_\_\_ conversion superheterodyne.
- (G) Full form of RSSI is \_\_\_\_\_.
- (H) Full form of NAM is \_\_\_\_\_.
- (I) \_\_\_\_\_ is a method that allows different pages or websites to be linked.
- (J) Frame relay is a \_\_\_\_\_ switching protocol.
- (K) Full form of STS is \_\_\_\_\_.
- (L) IP determines the format of the \_\_\_\_\_.
- (M) PANs are referred to as \_\_\_\_\_ networks that are set up for a specific single purpose.
- (N) The primary advantage of the bus is that it is \_\_\_\_\_ than any of the other topologies.
- (O) The most popular and widely used groupware program is \_\_\_\_\_.
- (P) Fiber optic cable is a \_\_\_\_\_ cable consisting of a glass or plastic.