BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE) B.Tech.Sem - VII ELECTRONIC: WINTER- 2022 SUBJECT: MOBILE & BROADBAND COMMUNICATION

Time: 02:30 PM-05:30 PM Day: Thursday Max. Marks: 60 Date: 15-12-2022 W-13397-2022 **N.B.:** All questions are **COMPULSORY**. 1) Figures to the right indicate FULL marks. 2) 3) Draw neat diagrams WHEREVER necessary. Describe Cellular system Architecture. Also describe multiple access (10) **Q.1** techniques used for cellular system. OR Describe Co-channel cell Location. Q.1 (10)Also draw a cluster for N = 7, i = 2 and j = 1. Draw 'GSM reference Architecture'. Also write functions of each block in it. **Q.2** (10)**Q.2** Write 'GSM Radio Aspects' and 'GSM security Aspect'. (10)Q.3 Draw 'Dynamic host configuration Protocol'. Also explain the client (10) initialization via DHCP. Q.3 Describe snooping TCP and Mobile TCP. (10)Describe: Q.4 (10)i) ISDN connections ii) ISDN addressing OR **Q.4** Write ISDN standards. Also describe circuit switching techniques in detail. (10)Q.5 Draw 'B-ISDN protocol reference Model' and explain function of each

Q.4 Write ISDN standards. Also describe circuit switching techniques in detail. (10)

Q.5 Draw 'B-ISDN protocol reference Model' and explain function of each (10) element.

OR

Q.5 With suitable diagram describe Synchronous Optical Network (SONET). (10)

Q.6 Describe 'ATM Traffic and congestion control". Also write ATM service. (10)

OR

Q.6 Describe ATM switching in detail. (10)