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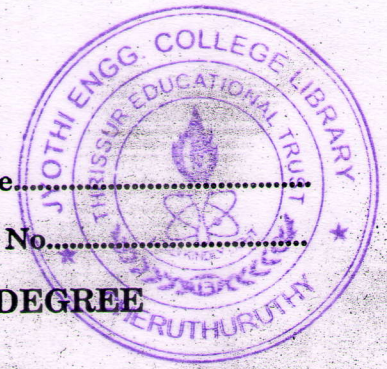
SEVENTH SEMESTER B.TECH (ENGINEERING) DEGREE EXAMINATION, DECEMBER 2005

CS 2K 705 C—MOBILE COMMUNICATION SYSTEMS

Time : Three Hours   Maximum : 100 Marks

I. (a) Write the advantage of Frequency hopped spectrum over Direct sequence spread spectrum.

   (b) Write short notes on dynamic channel allocation scheme.

   (c) How does the near-far effect influence TDMA system ? What happens in CDMA systems ?

   (d) List the security services offered by GSM.

   (e) Write the condition to keep the satellite in a stable circular orbit.

   (f) Draw the states of Blue tooth device.

   (g) What is meant by decap sulation ?

   (h) Write the disadvantages of mobile TCP.

                                                        (8 × 5 = 40 marks)

II. (a) Write the history of wireless communication.

                              Or

    (b) Write the features of FDMA and TDMA.

III. (a) Explain GSM system Architecture.

                              Or

    (b) Discuss the digital video broadcasting scenario with diagram.

IV. (a) Discuss the IEEE 802.11 protocol architecture and bridging.

                              Or

    (b) Discuss the functions of WATM.

V. (a) Discuss IP-in-IP Encapsulation.

                              Or

    (b) (i) List the main differences between ad hoc networks and other networks.   (7 marks)

       (ii) Give an example for least interference routing.   (8 marks)

                                                        (4 × 15 = 60 marks)