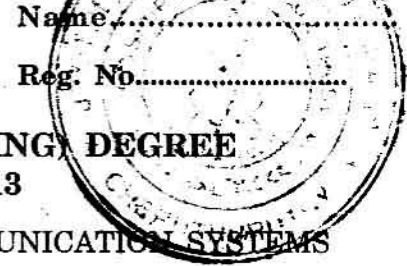


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**SEVENTH SEMESTER B.TECH. (ENGINEERING) DEGREE
EXAMINATION, NOVEMBER 2013**

CS 09 701—WIRELESS NETWORKS AND MOBILE COMMUNICATION SYSTEMS

Time : Three Hours

Maximum : 70 Marks

Part A

- I. (a) Define the need for the radio link transfer.
(b) Define Handoff.
(c) What do you mean by message routing ?
(d) Define GSM.
(e) State the characteristics of the GPRS.

(5 × 2 = 10 marks)

Part B

- II. (a) Explain the popular cellular telephony networks.
(b) Explain the concept of mobility management.
(c) How is the Radio Resource Allocation done ?
(d) Explain about the CDPD air interface.
(e) Write a note on GSM network signalling.
(f) How does a GPRS work ? Mention its principle of working.

(4 × 5 = 20 marks)

Part C

- III. (a) Explain in detail about the third generation wireless systems.

Or

- (b) Explain in detail about Roaming Management.

- IV. (a) Explain about the intersystem handoff and authentication in Is-41.

Or

- (b) With a neat sketch, explain about the cellular digital packet data architecture.

- V. (a) Explain in detail about the GSM short message service.

Or

- (b) Write about the working of the mobile number portability technique.

- VI. (a) Explain the functional groups of the GPRS in detail.

Or

- (b) Explain about the working of the GPRS network nodes and interfaces.

(4 × 10 = 40 marks)