

C 29694

Name

Reg. No.



**SEVENTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION
OCTOBER 2012**

**CS 09 703—INTERNET TECHNOLOGY
(2009 admissions)**

Time : Three Hours

Maximum : 70 Marks

Part A

- I. (a) Mention the advantages of using the wireless system.
(b) Define roaming.
(c) State the need for message routing.
(d) Define GSM. Mention its use.
(e) State the characteristics of WAP.

(5 × 2 = 10 marks)

Part B

- II. (a) Write about any two popular cellular telephony networks.
(b) Explain about the third generation wireless systems.
(c) Write a note on Radio Resource Allocation.
(d) Explain about PACS Network signalling.
(e) How is the GSM short message service implemented ?
(f) Explain about the GPRS network nodes.

(4 × 5 = 20 marks)

Part C

- III. (a) With a neat sketch, explain the PCS architecture.

Or

- (b) Explain in detail about Handoff Management and the types of Handoff.

- IV. (a) Explain the Cellular Digital Packet Data Architecture in detail.

Or

- (b) Explain in detail about how mobility management is done using TCAP.

- V. (a) Explain in detail about GSM network signaling.

Or

- (b) Write in detail about GSM mobility management.

- VI. (a) Discuss in detail about the GPRS architecture and its functional groups.

Or

- (b) Write in detail about the GPRS interfaces.

(4 × 10 = 40 marks)