

**C 44402**

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Name \_\_\_\_\_

Reg. No. \_\_\_\_\_



**SEVENTH SEMESTER B.TECH. (ENGINEERING)  
[SUPPLEMENTARY] EXAMINATION, JUNE 2013**

**CS/PTCS 09 701—WIRELESS NETWORKS AND MOBILE COMMUNICATION SYSTEM**

(2009 Scheme)

Time : Three Hours

Maximum : 70 Marks

**Part A**

*Answer any five questions.  
Each question carries 2 marks.*

- I. (a) Define Handoff.  
(b) Mention the popular cellular telephony networks.  
(c) Define Network Signalling.  
(d) Mention the advantages of using the GSM.  
(e) State the characteristics of the GPRS.

(5 × 2 = 10 marks)

**Part B**

*Answer any four questions.  
Each question carries 5 marks.*

- II. (a) Explain about the Radio Link Transfer technique.  
(b) Explain about the PCS Architecture.  
(c) Write a note on Interconnection and message routing in Network Signalling.  
(d) Explain about the Radio Resource Allocation technique.  
(e) Explain about the Mobile number portability in GSM.  
(f) Explain about the working of the WAP.

(4 × 5 = 20 marks)

**Part C**

*Answer all questions.  
Each question carries 10 marks.*

- III. (a) Explain about the working of the cellular Telephony networks.

*Or*

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

- IV. (a) Explain in detail about the CDPD Air interface mechanism.

*Or*

- (b) Explain in detail about the Inter system Handoff and authentication in IS-41.

**Turn over**

V. (a) Explain in detail about the GSM Network Signalling.

*Or*

(b) Explain about the GSM short message service technique.

VI. (a) Explain about the GPRS functional groups and Architecture.

*Or*

(b) Explain the working of the GPRS Network modes and interfaces.

(4 × 10 = 40 marks)