

**M.Sc. 3rd Semester Examination, 2013**

**COMPUTER SCIENCE**

*( Mobile Computing )*

[ Elective - I ]

PAPER — COS-304

*Full Marks : 50*

*Time : 2 hours*

**Answer any four questions**

*The figures in the right hand margin indicate marks*

1. (a) What is Synchronous transmission? 2
- (b) Describe the advantages and disadvantages of wireless networking system. 4
- (c) What is LOS? 1
- (d) Describe B.S.S. in detail. 3

*( Turn Over )*

2. (a) Describe logical channels used in GSM system. 4
- (b) What is pulse shaping? 2
- (c) Explain LF and MF. 1
- (d) Write down the importance of radio-channel. 3
  
3. (a) What is handover process? Write the different types of handover process. 3 + 2
- (b) Explain Code Division Multiplexing technique briefly with proper diagram. 3
- (c) Define Bluetooth. 2
  
4. (a) What is SIM? Write the function of SIM? 2 + 3
- (b) Write the different types of spread spectrum communication technique. 3
- (c) Define Pseudo Noise. 2
  
5. (a) What is mobile IP? How mobile IP works. 2 + 3

( 3 )

(b) What is near terminals and far terminals? 3

(c) Define BTS. 2

6. Answer any *four* :  $2\frac{1}{2} \times 4$

(i) B-channel and D-channel

(ii) DSR (Data Signaling Rate)

(iii) Decibel

(iv) Multipath Propagation

(v) DHCP

(vi) PSK.

[ *Internal Assessment – 10 Marks* ]

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