

Total No. of Questions : 8]

SEAT No. :

P4892

[Total No. of Pages : 2

[5155]-18

M.E. (Computer)

MOBILE COMPUTING

(2008 Pattern) (Elective - I)

Time : 3 Hours]

[Max. Marks : 100

Instructions to the candidates:-

- 1) *Answers to the two sections should be written in separate answer books.*
- 2) *Attempt any three questions from each section.*
- 3) *Figures to the right indicate full marks.*
- 4) *Assume suitable data & draw neat diagrams wherever necessary.*

SECTION - I

Q1) a) Write a short note on SIM. **[8]**

b) Explain any two with neat diagram **[8]**

i) BTS

ii) BSC

iii) TRAV

Q2) Write a short note on each of the following. Draw diagram if necessary.

a) MSC **[4]**

b) HLR **[4]**

c) VLR **[4]**

d) EIR **[4]**

Q3) a) Explain OSI reference model in context of mobile computing. **[8]**

b) Write a short note on the Abis – Interface. **[8]**

P.T.O.

Q4) Explain in detail following of Air – Interface of GSM

- a) Structure of Air - interface [6]
- b) Physical versus logical channels [6]
- c) Logical channel configuration [6]

SECTION - II

Q5) Explain NSS with neat diagrams [16]

Q6) Write short note on each

- a) FDMA [6]
- b) TDMA [6]
- c) CDMA [6]

Q7) a) Explain SCCP protocol [8]

b) Explain TCAP protocol. [8]

Q8) a) Write a short note on Mobility Management. [8]

a) Write a short note on MAP protocol. [8]

