

Total No. of Questions : 8]

SEAT No :

**P 2288**

**[5333]-3002**

[Total No. of Pages :2

**M.Sc.**

**COMPUTER SCIENCE**

**CS - 302 : Mobile Computing  
(2013 Pattern) (Semester-III)**

*Time : 3 Hours]*

*[Max. Marks : 50*

*Instructions to the candidates:*

- 1) Attempt any Five of the following.*
- 2) Neat diagrams must be drawn wherever necessary.*
- 3) Figures to the right indicate full marks.*

**Q1)** Attempt all of the following:

- a) Explain registration process in Mobile IP. **[4]**
- b) What are the requirements from Mobile IP. **[4]**
- c) Define Cell breathing. **[2]**

**Q2)** Attempt all of the following:

- a) Explain HAWAII with its advantages & disadvantages. **[4]**
- b) Compare FACOA with CO-COA. **[4]**
- c) What is WAE? **[2]**

**Q3)** Attempt all of the following:

- a) Explain in brief wireless session protocol. **[4]**
- b) Why optimization in Mobile IP needed? What are the limitations of optimization? **[4]**
- c) Explain Agent Solicitation. **[2]**

**P.T.O.**

**Q4)** Attempt all of the following:

- a) What are the advantages & disadvantages of CDMA? [4]
- b) Explain Reference model in GSM. [4]
- c) How MACA resolves hidden & exposed terminal problem? [2]

**Q5)** Attempt all of the following:

- a) Explain WAP gateway in details. [4]
- b) Explain UMTS architecture. [4]
- c) What is MN and CN. [2]

**Q6)** Attempt the following:

- a) “CDMA-CA” used in wireless LAN instead of “CDMA-CD”. Comment & Justify. [4]
- b) Explain functions of RNC. [4]
- c) What is OVSF. [2]

**Q7)** Attempt all of the following:

- a) How event Handling is done in Android O.S. [5]
- b) What is triangular routing behaviour? How it is avoided in Mobile IP? [5]

**Q8)** Attempt all of the following:

- a) Explain GPRS architecture. [5]
- b) What are problems associated with reverse path in mobile IP? [5]

