

Total No. of Questions : 12]

SEAT No. :

**P4057**

**[5563]-506**

[Total No. of Pages : 2

**T.Y. M.C.A. (Engineering )**

**MOBILE COMPUTING**

**(2013 Course) (Semester-V) (510905 B)**

*Time : 3 Hours]*

*[Max. Marks : 50*

*Instructions to the candidates:*

- 1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10, Q11 or Q12.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assume suitable data if necessary.*

**Q1)** Explain the concept of HLR and VLR with suitable diagram. **[9]**

OR

**Q2)** Explain the value added services of GSM. **[9]**

**Q3)** Explain the Bluetooth architecture with suitable diagram. **[8]**

OR

**Q4)** Explain the WAP architecture with suitable diagram. **[8]**

**Q5) a)** Explain the CODA file system. **[4]**

b) Write short notes on disconnected operations. **[4]**

OR

**Q6) a)** Explain the different data management issues. **[4]**

b) Write short notes on data replication. **[4]**

**Q7)** What is Android OS? Explain the architecture of android. **[8]**

OR

**P.T.O.**

**Q8)** Explain the different features of Android. [8]

**Q9) a)** Explain in details about location based services? [4]

b) Describe the concept of Intent with example. [4]

OR

**Q10)** What is Adapter? Explain with Example. [8]

**Q11)** Write a program for sending and receiving data message on Android. [9]

OR

**Q12)** Explain how binding and making connections with database in Android. [9]

