

P1501

[3764] - 435
B.E. (IT)
MOBILE COMPUTING
(2003 Course)

*Time : 3 Hours]**[Max. Marks:100**Instructions to the candidates:*

- 1) *Answer any 3 questions from each section.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Assume suitable data, if necessary.*

SECTION - I

- Q1)** a) Explaining the role of Context Manager, describe it's various information and relevances in the mobile computing environment. [8]
- b) Explain the three-tier architecture of mobile computing. [8]

OR

- Q2)** a) Explain various characteristics of mobile computing environment. [8]
- b) What is multiple access method? Why is it important? Explain various multiple access mechanisms with it's application areas and examples.[8]

- Q3)** a) Explain in detail various databases used in GSM. [9]
- b) Explain the strengths and architecture of SMS in detail. [9]

OR

- Q4)** Write **detail** notes on : [18]

- a) IPv6.
- b) Mobile IP.
- c) RFID.

- Q5)** a) Explain FHSS and DSSS in detail with appropriate diagrams. [8]
- b) Write short notes on : [8]
- i) MMS.
 - ii) IS-95 architecture.

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OR

- Q6)** a) Explain the 3G Networks with it's applications. [8]
b) Write short notes on : [8]
i) SGSN.
ii) GGSN.

SECTION - II

- Q7)** a) Explain 802.11 architecture. [8]
b) Explain various entities used in SS#7 architecture. [8]

OR

- Q8)** a) Explain various factors which are considered as constraints for handheld devices. [8]
b) Explain various internal components of PDA. [8]
Q9) a) Explain Palm OS architecture. [9]
b) Explain Symbian OS architecture. [9]

OR

- Q10)** a) Explain how J2ME is different than J2EE and J2SE. [9]
b) Explain the three prong approach used in JAVA. [9]
Q11) a) Explain any two real time protocols in detail. [8]
b) Explain various flavors of Windows CE. [8]

OR

- Q12)** a) Explain symmetric and asymmetric key algorithms with examples. [8]
b) Explain various attacks on static and dynamic assets. [8]

