

KADI SARVA VISHWAVIDYALAYA**B.E. Semester – VI Regular Examination April – 2015****Subject Name: - MOBILE COMPUTING****Subject Code: - IT 601****Date: 27/4/2015****Time: 10.30 am to 1.30 pm****Total Marks: 70****Instruction: (1) Answer each section in separate Answer sheet.****(2) Use of Scientific calculator is permitted.****(3) All questions are Compulsory.****(4) Figure to the right indicates full marks.****Section – I****Q.1****[A] Write down the limitation of GPRS. [5]****[B] Explain following protocol used in the Bluetooth technology. [5]**

1) Link Manager Protocol.

2) Logical Link Control and Adaptation Protocol.

3) Service Discovery protocol.

4) RFCOMM

[C] What is RFID? And explain its tags. [5]**OR****[C] What are the different tiers in three tier architecture of mobile computing? [5]**
Describe the functions of these tiers.**Q.2****[A] Describe about Mobile IP & draw its architecture. [5]****[B] Differentiate the WiMax and WiFi Technologies. [5]****OR****Q.2****[A] Explain about indirect & snooping TCP. Also give any two advantages of mobile TCP. [5]****[B] Explain the following Multiple Access Techniques used to access the channel by mobile subscriber. [5]**

1) Time Division Multiple access.

2) Code Division Multiple access.

Q.3**[A] Explain Session Initiation Protocol (SIP). [5]****[B] How is data routing done in GPRS? In what respect is data routing difference from voice routing. [5]****OR****Q.3****[A] What is GSM? & illustrate GSM Architecture. [5]****[B] Explain the difference between SMMO & SMMT. [5]**

Section – II

Q.4

- [A] Describe the call routing in GSM with an example. [5]
- [B] What is VAS? Explain VAS through SMS with an example. [5]
- [C] What is Direct Sequence Spread Spectrum Technology? Explain how it works in the CDMA technology. [5]

OR

- [C] Describe 3G networks. How is a 3G network different from a 2G CDMA network? [5]

Q.5

- [A] Give six functions where CDMA is different from GSM. [5]
- [B] Describe GSM Frequency allocation. [5]

OR

Q.5

- [A] What is VoIP? Compare H.323 and SIP. [5]
- [B] Describe the WAP protocol stack. What are the functions of different layers in this protocol stack? [5]

Q.6

- [A] Compare WiFi vs. 3G and also discuss wireless LAN security issues. [5]
- [B] What is WAP Push? How is different from pull? [5]

OR

Q.6

- [A] What is MMS & describe its architecture. [5]
- [B] Explain following. [5]
 - 1) What is mean of channel coding in GPRS?
 - 2) Hard handoff
 - 3) Soft handoff
 - 4) Tunnelling