

Seat No. : \_\_\_\_\_

# AK-104

April-2025

Int. M.Sc., (CA & IT) Sem.-VIII

## Mobile Computing

Time : 2:30 Hours]

[Max. Marks : 70

1. Answer the following questions : 14
  - (1) What is spread spectrum ? Explain DSSS and FHSS in brief. 7
  - (2) Describe how signal propagation affects wireless communication. 7
  
2. Answer the following questions : (Any two) 14
  - (1) Explain basic architecture of GSM. 7
  - (2) Explain the authentication and encryption process in GSM. 7
  - (3) Explain architecture of GPRS. 7
  
3. Answer the following questions : 14
  - (1) Explain HIPERLAN-1 and HIPERLAN-2 with feature. 7
  - (2) Explain protocol architecture of Bluetooth. 7

**OR**

  - (2) Explain infrastructure and adhoc wireless LAN. 7
  
4. Answer the following questions : 14
  - (1) Explain working of dynamic host configuration protocol. 10

**OR**

  - (a) Write a short note on TCP over 3G networks. 5
  - (b) Explain Indirect TCP. 5
  - (2) Write advantages and disadvantages of wireless sensor network. 4
  
5. Answer the following questions : 14
  - (1) Explain working of Wireless application protocol with figure. 5

**OR**

  - (1) Explain WAP protocol stack 5
  - (2) What is Phonegap ? List the platform supported by Phonegap. 5
  - (3) Explain push technology with example. 4