

BCA 3rd year

Total No. of Pages : 4

BCA THIRD YEAR EXAMINATION, 2023
WIRELESS AND MOBILE COMPUTING
Paper - I

Time Allowed : Three Hours

Maximum Marks : 100

PART-A

[Marks : 20]

Note: Answer **all** questions (50 words each). All questions carry equal marks.

PART-B

[Marks : 50]

Note: Answer **five** questions (**250** words each). Selecting **one** from each unit. All questions carry equal marks.

PART-C

[Marks : 30]

Note: Answer **any two** questions (**300** words each). All questions carry equal marks.

PART-A

1. (i) What is a GSM ?
- (ii) Define Mobility management.
- (iii) What is the role of a MAC protocol ?
- (iv) List the wireless networking standards used in Mobile computing.
- (v) Define Mobile computing.
- (vi) List the advantage of Mobile computing.
- (vii) What is service discovery example ?
- (viii) Define Multicast Discovery.
- (ix) Which operating system is used in mobile ?
- (x) What is Plam mobile OS ?

PART-B

UNIT-I

2. Discuss the basic scheme of the CDMA protocol.
3. Explain GSM architecture and specifications.

UNIT-II

4. Explain design issues of MAC protocol.

5. Explain Bluetooth in detail.

UNIT-III

6. Explain mobile computing and its applications.
7. Explain advantages of Mobile Agents.

UNIT-IV

8. Explain Mobile TCP and its advantages.
9. Discuss on Coda File System architecture.

UNIT-V

10. Explain of symbian OS and its features.
11. Explain the features of IOS operating system.

PART-C

12. What is a wireless Network ? Explain types of wireless Networks.
13. Explain the functions of physical layer in IEEE802.11 protocol architecture.
14. Describe the architecture of Mobile Computing Environment.
15. Explain the different components of the Mobile IP.