

Roll No. :

Total No. of Pages : 3

BCA304

B.C.A. IIIrd Year Examination, 2022

WIRELESS AND MOBILE COMPUTING

Paper-IV

Time Allowed : 1½ Hours

Maximum Marks : 100

Part-A

[Marks : 30]

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

Part-B

[Marks : 70]

Note :- Answer any two questions (250 words each). All questions carry equal marks.

Part-A

1. (i) What is Mobile Computing ?
- (ii) Define Cellular Concept.
- (iii) Differentiate between Mobile Communication and Mobile Computing.

- (iv) Define Data Broadcasting.
- (v) What is WAP ?
- (vi) Define Data Dissemination.
- (vii) What is meant by Middleware ?
- (viii) What is Mobile Agents ?
- (ix) Define Mobile IP.
- (x) What is Mobility ?

Part-B

- 2. (a) Discuss the channels allocation in Cellular Systems.
- (b) Explain Mobility Management. **20+15**
- 3. Write short notes on the following :
 - (i) Location Management Principles and Techniques
 - (ii) CDMA and GPRS **25+10**
- 4. (a) Discuss the Wireless Multiple Access Protocols.
- (b) Explain IEEE 802.11 and Bluetooth. **20+15**

5. Discuss the WAP Architecture, Application Environment and Applications. **35**
6. (a) Discuss the characteristics and issues in Mobile Computing.
- (b) Explain Mobile Web Caching. **25+10**
7. Write short notes on the following :
- (i) Mobile cache maintenance schemes
- (ii) Data dissemination overview and challenges **18+17**
8. (a) Discuss the Service Discovery and Standardization methods of Middleware.
- (b) Write a short note on Mobile TCP. **25+10**
9. Write short notes on the following :
- (i) Database systems in Mobile Environment
- (ii) Unicast and Multicast Discovery **18+17**