

**MASTER OF COMPUTER
APPLICATIONS (MCA-NEW)**

Term-End Examination

December, 2024

MCS-231 : MOBILE COMPUTING

Time : 3 Hours

Maximum Marks : 100

Note : *Question No. 1 is compulsory and carries 40 marks. Attempt any **three** questions from the rest.*

-
1. (a) What do you understand by mobility in mobile computing ? Explain different features of mobile computing. 10
 - (b) Explain GPRS along with its features. Describe the services offered by GPRS. 10

- (c) “Mobile computing often involves the use of TCP and UDP.” Compare and contrast these two protocols. 10
- (d) Write a short note about cells used in GSM. Explain the features of GSM. 10
2. (a) Draw a neat diagram for mobile computing architecture. Briefly explain it. 10
- (b) Elaborate the process of handing over control of a mobile device to a neighbouring cell. Discuss Soft Handover and Hard Handover. 10
3. (a) Explain the features of 5G Network. Describe its advantages. 10
- (b) Explain Mobile Device Data Store methods. 10

4. (a) Explain the objective of mobile IP. Explain the working of mobile IP with the help of a diagram. 10
- (b) Describe the concept of mobile cloud computing and its advantages for users. 10
5. (a) Explain data replication methods. 10
- (b) Explain thick and thin client architectures. 10

x x x x x x x