



'সমানো মন্ত্র: সধিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**  
BCA Honours 6th Semester Examination, 2023

**CC13-BACHELOR OF COMPUTER APPLICATION (61)**

**MOBILE COMPUTING**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

**GROUP-A**

1. Answer any **five**: 1×5 = 5
- (a) State any two important difference between GSM and CDMA.
  - (b) Differentiate HLR and VLR.
  - (c) What is MANET?
  - (d) Define DHCP.
  - (e) What is snooping TCP?
  - (f) Differentiate Mobile Computing and Wireless Networking.
  - (g) What is the function of a WAP gateway?
  - (h) Mention the major protocols involved in mobile payment systems.

**GROUP-B**

2. Answer any **three**: 5×3 = 15
- (a) Differentiate FDMA, TDMA and CDMA.
  - (b) Write a short note on network security.
  - (c) Write a short note on Mobile Databases.
  - (d) Name the requirements for mobile IP and justify them. Does mobile IP fulfill them all?
  - (e) Explain WAP push architecture.

**GROUP-C**

3. Answer any **two**: 10×2 = 20
- (a) Explain the architecture of GSM with the help of a diagram.
  - (b) Explain GRPS protocol architecture. Explain the design issues of MANET routing protocol in detail.
  - (c) Explain various operating systems for mobile computing. Write a short note on Mobile Commerce.
  - (d) Discuss the limitations of traditional TCP in the context of mobile computing. Explain end to end semantics of the transport layer.

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