



UNIVERSITY OF NORTH BENGAL
BCA Honours 6th Semester Examination, 2021

CC13-BACHELOR OF COMPUTER APPLICATION (61)

MOBILE COMPUTING

Full Marks: 40

ASSIGNMENT

The figures in the margin indicate full marks.

Answer any two questions from the following

20×2 = 40

1. (a) With a neat diagram, explain the functional architecture of a GSM system. 12
(b) Explain the applications of Mobile Computing. 4
(c) Explain the limitations of Mobile Computing. 4

2. (a) Explain the characteristics of SDMA, TDMA, FDMA and CDMA. 12
(b) Explain about the Hidden and Exposed station problems in wireless environments. 8

3. (a) With the help of an example diagram, explain how IP packets are transferred from fixed node to mobile node. 15
(b) How to perform data delivery and congestion control in conventional TCP/IP transport layer protocol? Explain. 5

4. Write Short notes on: 5×4
 - (i) Goals of Mobile IP.
 - (ii) DHCP (Dynamic Host Configuration Protocol)
 - (iii) Handoff and its types
 - (iv) Mobile Computing vs Wireless Networking.

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