

SVKM'S NMIMS
SCHOOL OF TECHNOLOGY MANAGEMENT & ENGINEERING, NAVI-MUMBAI
Academic Year: 2022-2023

Program: BTech Stream: CSBS
Subject: Mobile Computing
Date: 23/08/2022
Marks: 20

Year: IV Semester: VII
Time: 45 mins (11.00 to 12.00)
No. of Pages: 1

Mid-Term Examination

Instructions: Candidates should read carefully the instructions printed on the question paper and on the cover of the Answer Book, which is provided for their use.

- 1) ~~Question No. 1 is compulsory.~~ All questions are compulsory.
- 2) Each question carries equal marks.
- 3) Answer to each new question to be started on a new page.
- 4) Figures in brackets on the right-hand side indicate full marks.
- 5) Assume Suitable data if necessary.

Q.No.	Statement of the question	CO/ SO/ BL	Marks
Q.1 (a)	Define line of sight and relate the influence of the distance between sender and receiver to the path loss.	CO1/SO/BL2	(2)
Q.1 (b)	Illustrate the use of carrier signal in radio communication.	CO1/SO/BL2	(2)
Q.1 (c)	Compare DHSS and FHSS.	CO3/SO/BL1	(2)
Q.1 (d)	Specify a quick and static location update scheme and mention 2 limitations of the same.	CO2/SO/BL2	(2)
Q.2	Illustrate two-level hierarchical database updation with a diagram for the call process in location management.	CO2/SO/BL2	(4)
Q.3	Brief the techniques used in different dimensions for sharing the medium with minimal interference in wireless communication.	CO3/SO/BL1	(4)
Q.4	Relate the concept of location area and Paging area. Illustrate the limitations of the paging techniques.	CO2/SO/BL1	(4)

TDM
FDM
VDM
DDM

3. TIME, FREQUENCY,
CODE, VELOCITY