SVKM'S NMIMS

SCHOOL OF TECHNOLOGY MANAGEMENT& ENGINEERING, NAVI-MUMBAI

Academic Year: 2022-2023

Program: BTech Stream: CSBS
Subject: Mobile Computing
Date: 26/09/2022
Marks: 20

Year: IV Semester: VII
Time: 45 mins (11.00 to12.00)
No. of Pages:1

Mid-Term Examination A

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. Answer any 3 from Q2 to Q5.**
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)	List the access methods used in WLAN 802.11	CO3/SO/BL1	(2)
Q.1 (b)	Illustrate the basics of Zigbee technology.	CO3/SO/BL2	(2)
Q.1 (c)	Compare infrared and radio transmission technology wrt wireless LAN	CO3/SO/BL1	(2)
Q.1 (d)	**Analyse** how bluetooth solves hidden terminal problem.	CO3/SO/BL3	(2)
Q.2	Differentiate between proactive and reactive routing protocols in Manet. Highlight how count to infinity problem be solved in DSDV routing.	CO3/SO/BL2	(4)
Q.3	Explain the concept of beamforming in MIMO. List the advantages and applications of MIMO technology.	CO3/SO/BL1	(4)
Q.4	What are piconet and scatternet? Explain the process of piconet formation.	CO2/SO/BL1	(4)
Q.5	Explain the process of identifying an optimal path in dynamic source routing with an example.	CO3/SO/BL1	(4)