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MANIPAL ACADEMY OF HIGHER EDUCATION
MANIPAL SCHOOL OF INFORMATION SCIENCES

THIRD SEMESTER MASTER OF SCIENCE – M.Sc. (INFORMATION SCIENCE) DEGREE
EXAMINATION – DECEMBER 2020

SUBJECT: MIS 609.3 – MOBILE COMPUTING (ELECTIVE)

Wednesday, 9th December 2020

Time: 10.00 – 13.00 Hrs.

Max. Marks: 100

Answer ALL the questions

All questions carry 10 marks.

1. Explain the characteristics of a mobile computing environment.
2. What is multipath propagation? Explain with diagram the effects of multipath propagation.
3. (a). Define the term Cell and draw the seven-cell repeating pattern.
(b). Calculate the signal to interference ratio (S/I) of a seven-cell repeating pattern.
(c). write a short note on cell sectoring
4. With neat functional block diagram explain the Mobile Database Systems (MDS) architecture
5. With neat block diagram explain all the functional blocks in RSS of a GSM.
6. Explain the following (a). HLR (b). VLR (c) EIR
7. Explain various States of a Bluetooth device with neat diagram
8. How the mobility is performed through indirect routing when a mobile is moving between networks. Explain with suitable diagram
9. Write a short note on
(i) Snooping TCP b. Mobile TCP
10. What is session mobility? Explain the components involved in session mobility.
