

Question Paper



MANIPAL UNIVERSITY

SCHOOL OF INFORMATION SCIENCES
THIRD SEMESTER MASTER OF SCIENCE- MSc(INFORMATION SCIENCE)
DEGREE EXAMINATION November-2017
DATE : Wednesday, November 22, 2017
TIME : 10:00AM - 1:00PM
Mobile computing [MIS 609.3]

Marks: 100

Duration: 180 mins.

Answer all the questions.

- 1) What are the advantages and limitations of wireless communications? Explain the contributions of radio waves for wireless transmission. (10)
- 2) What is multipath propagation? Explain various multipath propagation effects with example (10)
- 3) (a). Define the term Cell and draw the seven-cell repeating pattern. (10)
(b). Calculate the signal to interference ratio (S/I) of a seven-cell repeating pattern.
(c). write a short note on cell sectoring
- 4) (a). Define the following terms: (i) Call blocking (ii) Call termination (10)
(b). Write a short note on satellite propagation.
- 5) With neat block diagram explain all the functional blocks in RSS of a GSM. (10)
- 6) Explain the following (a). HLR (b). VLR (c) EIR (10)
- 7) Explain various States of a Bluetooth device with neat diagram (10)
- 8) How the mobility is performed through indirect routing when a mobile is moving between networks. Explain with suitable diagram (10)
- 9) Write a short note on (10)
a. Snooping TCP b. Mobile TCP
- 10) What is session mobility? Explain the components involved in session mobility. (10)

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