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SEAT No. :

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[4937]-302

M.Sc.

COMPUTER SCIENCE

CS - 302 : Mobile Computing

(2011 Pattern) (Semester - III)

Time : 3 Hours]

[Max. Marks : 80

Instructions to the candidates:

- 1) All questions are compulsory.*
- 2) Neat diagrams must be drawn wherever necessary.*
- 3) Figures to the right indicate full marks.*

Q1) Attempt All of the following

[16]

- a) Define user mobility & device portability.
- b) Give the disadvantages of spread spectrum.
- c) List the problems related with reverse funneling.
- d) Write any two advantages of snooping TCP.
- e) Explain hidden & exposed terminals.
- f) Explain the use of broadcast control channel.
- g) List four J2ME profiles.
- h) Give the name of any four mobile communication protocols.

Q2) Attempt any four of the following:

[16]

- a) What are the advantages & disadvantages of CDMA?
- b) Explain different types of handover used in UMTS.
- c) Which are the components of GPRS & what is their purpose?
- d) Discuss the various applications of mobile computing.
- e) How wireless transport layer establishes a secure session?

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Q3) Attempt any four of the following:

[16]

- a) Explain Features of Android.
- b) Explain the function of each layer in WAP Architecture.
- c) List & explain various mobile services of GSM?
- d) Explain FDMA in detail.
- e) Explain Dynamic source Routing.

Q4) Attempt any four of the following:

[16]

- a) Explain any one method used for congestion control in mobile transport layer.
- b) Write a short note on reverse tunneling.
- c) What advantages does the use of IPV6 offer for mobility?
- d) What are the advantages & disadvantages of cellular systems?
- e) Explain lifecycle of MIDlet.

Q5) Attempt any four of the following:

16]

- a) What is MMS? How it is different from short message service? Describe MMS Architecture.
- b) Describe FHSS with neat diagram.
- c) Write note on Indirect TCP.
- d) Describe tunneling & encapsulation.
- e) What is code Division multiplexing? Explain.

