2018

MOBILE COMPUTING

Paper : CS 712

Full Marks : 100

Time : Three hours

The figures in the margin indicate
full marks for the questions.

Answer *any five* questions.

1. (a) What is meant by handover ? Discuss various types of handover and handover procedure in GSM. 10

   (b) List and explain the main elements of mobile computing architecture with a neat sketch diagram. 6

   (c) What are the special constraints and requirements of Mobile OS ? 4

2. Discuss about the following emerging technologies with one use case of each :

   (a) Internet of Things

(b) Big Data Analysis

(c) Machine Learning

(d) Cloud Computing.

5×4=20

3. (a) Write the difference between active and passive scanning. 5

(b) Explain Authentication and Encryption mechanisms of the following :

(i) WEP

(ii) WPA

(iii) WPA2 Enterprise.

5×3=15

4. (a) Draw LTE architecture and describe its operation. 15

(b) What is MANET ? List the applications of MANET. 5

5. If you have any plan for startup, discuss about it. Elaborate on how technology (information and communication technologies) can help change the face of your startup ecosystem. 20

6. (a) Discuss AoDV and OLSR routing protocols of MANET. 15

(b) Explain the architecture of WAP 2.0. 5

7. Compare and contrast Traditional TCP, Indirect TCP, Snooping TCP, Mobile TCP. 5×4=20

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