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**Question Paper Code : 45910**

5 Year M.Sc. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2014.

Elective

Software Engineering

XIT 004/10677 SWE 71 – MOBILE COMPUTING

(Common to 5 Year M.Sc. Information Technology)

(Regulation 2003/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is spreading factor?
2. Why do we need the specialized MAC?
3. Difference between soft handover and hard hand over.
4. What is Radio Resource management?
5. Differentiate between infrastructure and ad-hoc networks
6. What is the power saving mechanisms in Bluetooth?
7. Draw the protocol architecture for GRE according to RFC1701.
8. Define reverse tunneling.
9. Mention any two salient features of WAP.
10. What is WML?

PART B — (5 × 16 = 80 marks)

11. (a) Explain about Space, Frequency, Time and Code multiplexing in detail.

Or

- (b) (i) Explain about TDMA techniques in detail. (12)
- (ii) Describe in detail the Simplified Reference Model. (4)

12. (a) (i) Describe the architecture of GSM with a neat diagram. (8)  
(ii) Explain in detail the protocol architecture of GSM. (8)

Or

- (b) Explain about radio interface, UTRAN and handover of UMTS and IMT - 2000 in detail.
13. (a) Explain the medium access control layer in IEEE802.11 with neat sketches.

Or

- (b) Describe the architecture of BLUETOOTH in detail.
14. (a) (i) Explain in detail the agent discovery of Mobile IP. (8)  
(ii) Explain about tunneling and encapsulation in detail. (8)

Or

- (b) Explain about IPV6 protocol in detail.
15. (a) Describe in detail the architecture of WAP.

Or

- (b) Write the WML script to vote for your personal champion in a show.