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10/12/14 FN

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Question Paper Code : 45306

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

Elective

Software Engineering

ESE 516 — MOBILE COMPUTING

(Regulation 2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Distinguish infrastructured and adhoc networks.
2. Why is physical layer in IEEE802.11 subdivided? What are its sub layers?
3. What are the services offered by GSM?
4. What are the advantages of satellite systems?
5. What is HIPERLAN? List out its various phases.
6. What is Roaming in GSM?
7. What are the requirements of Mobile IP?
8. Define Routing discovery and routing maintenance.
9. List the interfaces used in WAP architecture.
10. What is WTP?

PART B — (5 × 16 = 80 marks)

11. (a) (i) What is multiplexing? Explain the different types of multiplexing techniques and state their merits and demerits. (8)
- (ii) Explain about cellular systems. List its advantages and disadvantages. (8)

Or

- (b) Explain about
 - (i) FHSS (8)
 - (ii) DSSS. (8)

12. (a) (i) Discuss the architecture of GSM with neat diagram. (10)
(ii) Explain the Handover mechanism in GSM. (6)

Or

- (b) (i) Explain the types of handover in UMTS. (6)
(ii) Explain the architecture of UMTS. (10)

13. (a) Explain the architecture of IEEE 802.11 standard. (16)

Or

- (b) Explain architecture of Blue tooth with neat diagram. (16)

14. (a) (i) Explain tunneling and encapsulation in mobile IP. (8)
(ii) Explain agent registration phase in mobile IP. (8)

Or

- (b) (i) Explain the agent discovery process in mobile IP. (8)
(ii) Explain about QOF provisioning in Adhoc network. (8)

15. (a) (i) Explain about WDP in WAP protocol set. (8)
(ii) Explain about WTLS in WAP protocol set. (8)

Or

- (b) Explain the WAE in WAP protocol set. (16)