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67218

MCA 5th Semester (Regular)
Examination, February-2022
(CBCS Scheme Current w.e.f. 2018-19)
Paper-18MCA35DB2
MOBILE COMPUTING

Time : Three Hours) [Maximum Marks : 80

Before answering the questions candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note :- Attempt five questions in all, selecting one question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

Compulsory Question

1. (a) What is FIDMA ?
- (b) What is TDMA ?
- (c) What is Orient TCP ?
- (d) What is Indirect TCP ?

67218 (1) RR-491 P.T.O.

- (e) What is Power-Aware ?
 - (f) What is Context-Aware ?
 - (g) What is Security in MANETs ?
 - (h) What is Tunneling ?
- 2×3=16

Unit-1

- 2. Explain the following with example :
 - (a) Radio Interface
 - (b) Protocols
 - (c) Localization
 - (d) Handover

4×4=16
- 3. How GSM bring changes in wireless scenario ? Explain Services, System Architecture, and Radio Interface with example. 16

Unit-II

- 4. How Mobile Network Layer works ? What is the role of IP Packet Delivery and Agent Advertisement in Mobile Network Layer ? Explain Dynamic Host Configuration Protocol with example. 16

- 5. Explain the following with example :
 - (a) Fast Retransmission/Fast Recovery
 - (b) Transmission/Time-Out Freezing
 - (c) Selective Retransmission

5+0+5=16

Unit-III

- 6. Explain the following with example :
 - (a) Push based Mechanisms
 - (b) Pull-based Mechanisms
 - (b) Hybrid Mechanism
 - (d) Selective Tuning Techniques

4×4=16
- 7. How Hoarding Techniques used in Database ? What are working of caching, invalidation mechanisms ? Explain Client Server Computing with adaptation. 16

Unit-IV

- 8. What are mobile Ad Hoc networks ? What are the properties of MANETs ? Explain the types of routing protocols with example.
- 9. What is Bluetooth ? Explain User Security, Physical Layer, and MAC Layer with example.