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MCA
(SEM IV) THEORY EXAMINATION 2017-18
MOBILE COMPUTING

Time: 3 Hours**Total Marks: 70****Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief. 2 x 7 = 14**

- a. What is Bandwidth?
- b. Write down the formulae for data rate for noisy channel.
- c. Define the Wireless Media.
- d. What do you mean by Wi-Fi?
- e. What do you mean by Wireless Body Area Network?
- f. What do you mean by Wireless Ad-Hoc Network?
- g. What is Wireless Sensor Network?

SECTION B**2. Attempt any three of the following: 7 x 3 = 21**

- a. Explain the various features of CDMA.
- b. Explain the Wireless Communication Problems.
- c. Differentiate fix channel allocation scheme and dynamic allocation scheme.
- d. Explain the MAC protocols in details.
- e. Explain the Dynamic Source Routing (DSR) protocols.

SECTION C**3. Attempt any one part of the following: 7 x 1 = 7**

- (a) What is Mobile Computing? Explain the various application of Mobile Computing?
- (b) Explain Space Division Multiple Access technique in Wireless Telephony.

4. Attempt any one part of the following: 7 x 1 = 7

- (a) Explain CODA file System and its various features.
- (b) Explain Adaptive Clustering and its working for mobile wireless network.

5. Attempt any one part of the following: 7 x 1 = 7

- (a) Explain the Transaction Processing in Mobile Computing.
- (b) What do you mean by Data Replication? Classify the Data Replication?

6. Attempt any one part of the following: 7 x 1 = 7

- (a) Explain Security Threats in Mobile Agent Computing.
- (b) Explain the various Mobile Agent security issues in Mobile Computing.

7. Attempt any one part of the following: 7 x 1 = 7

- (a) Explain Destination Sequence Distance Vector Routing (DSDV) algorithm.
- (b) Explain the various layers of WAP Architecture.