Printed Pages: 01 **Sub Code: RCAE15**

Paper Id: 214245 **Roll No.** | | | | | | | | | | |

MCA
(SEM IV) THEORY EXAMINATION 2018-19
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 do you mean by IP address?
b. Define cluster and reuse distance?
c. What is file system in Mobile Computing?
d. What do you mean by roaming in Mobile Computing?
e. Define static and dynamic routing?
f. List the various issues concern to transaction management?
g. Define UDP and SMTP?

SECTION B

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

a. Explain GSM architecture with proper example?
b. Discuss the MAC issues?
c. Explain the various file system in Mobile Computing?
d. Discuss the various Mobile Agent of Mobile Computing?
e. Differentiate between wired network and ad-hoc networks?

SECTION C

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

(a) Explain the various issues of mobile computing?
(b) Write short notes: Hand-off and cellular system?

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

(a) Explain TCP over wireless networks?
(b) What do you mean by various wireless applications? Explain data broadcasting in details?

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

(a) Explain the disconnected operations in Mobile Computing with the help of example?
(b) Discuss the adaptive clustering for wireless networks in Mobile Computing?

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

(a) Explain the various security issues in Mobile Computing?
(b) What do you mean by Fault tolerance? Explain transaction processing in Mobile Computing Environment?

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

(a) What do you mean by routing protocol? Explain DSDV?
(b) Explain wireless routing protocols?

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