

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**
- What do you mean by IP address?
 - Define cluster and reuse distance?
 - What is file system in Mobile Computing?
 - What do you mean by roaming in Mobile Computing?
 - Define static and dynamic routing?
 - List the various issues concern to transaction management?
 - Define UDP and SMTP?

SECTION B

2. **Attempt any three of the following:** **7 x 3 = 21**
- Explain GSM architecture with proper example?
 - Discuss the MAC issues?
 - Explain the various file system in Mobile Computing?
 - Discuss the various Mobile Agent of Mobile Computing?
 - Differentiate between wired network and ad-hoc networks?

SECTION C

3. **Attempt any one part of the following:** **7 x 1 = 7**
- Explain the various issues of mobile computing?
 - Write short notes: Hand-off and cellular system?
4. **Attempt any one part of the following:** **7 x 1 = 7**
- Explain TCP over wireless networks?
 - 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**
- Explain the disconnected operations in Mobile Computing with the help of example?
 - Discuss the adaptive clustering for wireless networks in Mobile Computing?
6. **Attempt any one part of the following:** **7 x 1 = 7**
- Explain the various security issues in Mobile Computing?
 - 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**
- What do you mean by routing protocol? Explain DSDV?
 - Explain wireless routing protocols?