

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -3 EXAMINATION- Dec. 2017

B. Tech.-VII Semester

COURSE CODE: 15B1WCI731

MAX. MARKS: 35

COURSE NAME: MOBILE COMPUTING

COURSE CREDITS: 3

MAX. TIME: 2 Hr

*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.*

- Q.1 Describe the following question in short. (10x2=20)
- (a) How the mobile IP is differ from simple IP?
  - (b) What do you understand by the COA?
  - (c) Why the encapsulation and decapsulation process is used in mobile environment?
  - (d) How the mobile computing is different from wireless communication?
  - (e) What is snooping? How it can overcome?
  - (f) How the suboptimal triangle problem is occurred. What is the possible solution for it?
  - (g) Describes the mobility binding and visitor list tables.
  - (h) How the reestablishment problem can handle in mobile environment. What the possible factors responsible for this?
  - (i) Why the exposed and hidden terminal is occurred? What are the possible solutions for it?
  - (j) What are the different challenges for the ubiquitous computing? How these challenges are reduced?
- Q.2 Why do congestion occur in a network? Explain how does TCP detect and handle congestion. (5)
- Q.3 Explain the operation of mobile IP with the help of a suitable schematic diagram and examples (5)
- Q.4 Describe the system architecture and protocol architecture of IEEE102.11 with suitable diagram? (5)