

YMCA UNIVERSITY OF SCIENCE AND TECHNOLOGY,
FARIDABAD

B.TECH. EXAMINATION (Under CBS)

• Mobile Adhoc Networks (IT 308)

Time: 3 hrs.

M.Marks:60

Note: Question Paper has two parts.

Part I has 10 questions and all questions are compulsory

Part II has 6 questions out of which 4 need to be attempted.

PART I

2*10

Q1. All questions are compulsory.

- i. Explain the term "Location Discovery".
- ii. Define Route Configuration time?
- iii. Explain the need of adhoc network?
- iv. Differentiate between Theoretical and Actual Capacity of a cell.
- v. Explain the base concept of signal stability based adaptive routing?
- vi. Why security is one of the major issues in adhoc network?
- vii. Explain the table structure of DSDV Routing Protocol.?
- viii. Give the classification of routing protocols based on the use of temporal information?
- ix. Give the advantages of INSIGNIA routing protocol.
- x. Define the term "Scalability" in context with adhoc network.

PART II

- Q2 Explain Ticket Based QoS Routing Protocol in detail. 10
- Q3 How does hybrid protocol are different from other routing protocols? Explain Zone Routing Protocol along with example. 10
- Q4 Differentiate between 5*2
- Cellular Network and Adhoc Network.
 - Proactive and Reactive Routing.
- Q5 a) Explain different Battery Scheduling Techniques. 5*2
- b) Is Table driven protocol suitable for high mobile environment?
- Q6 a) Explain how the route reconfiguration/repair time affects the network performance? 5*2
- b) Give the major issues in adhoc network routing.
- Q7 a) Explain various advantages and disadvantages of clustering. 5*2
- b) What is Sensor Network? How sensor networks are different from adhoc networks?