

FACULTY OF INFORMATICS

B.E. 4/4 (IT) I – Semester (Suppl.) Examination, June / July 2015

Subject : Ad-hoc and Sensor Networks (Elective – II)

Time : 3 hours

Max. Marks : 75

Note: Answer all questions from Part-A. Answer any FIVE questions from Part-B.

PART – A (25 Marks)

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|--|---|
| 1 List any 4 types of wireless technologies. | 2 |
| 2 What is reflection in radio propagation? | 2 |
| 3 Write any 3 functions of TORA. | 3 |
| 4 Distinguish between proactive and on demand protocols. | 3 |
| 5 Write any three design issues of transport layer protocol for adhoc wireless networks. | 3 |
| 6 What is associativity-based adhoc multicast routing? | 2 |
| 7 What is Byzantine attack? | 2 |
| 8 Distinguish between hard QoS and soft QoS approaches. | 3 |
| 9 What are the main components of a wireless sensor network? | 3 |
| 10 What are the applications of wireless sensor networks? | 2 |

PART – B (50 Marks)

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|---|----|
| 11 Discuss about various spectrum allocation methods. | 10 |
| 12 Explain the working of DSDV protocol. Also mention its advantages and disadvantages. | 10 |
| 13 Explain why TCP cannot perform well in adhoc wireless networks. | 10 |
| 14 Discuss about the intrusion detection techniques for mobile adhoc networks. | 10 |
| 15 Explain about demand based and contention based MAC protocols for sensor networks. | 10 |
| 16 Give the classification of security attacks in adhoc wireless networks. | 10 |
| 17 Write a short note on : | |
| a) Differences between cellular and adhoc wireless networks | 5 |
| b) Sensor node technology | 5 |
