

## **Important Instructions:**

- 1) Open this MS-Word document and start writing answers below each respective question given on page 2.**
- 2) Answers the question in the same sequence in which they appear.**
- 3) Provide to the point and concrete answers.**
- 4) First read the questions and understand what is required of you before writing the answer.**
- 5) Attempt the paper yourself and do not copy from your friends or the Internet. Students with exactly similar answers or copy paste from the Internet will not get any marks for their assignment.**
- 6) You can contact me for help if you have any doubt in the above instructions or the assignment questions.**
- 7) All questions must be attempted.**
- 8) Do not forget to write your name, university ID, class and section information.**
- 9) Rename you answer file with your university ID# before uploading to SIC.**
- 10) When you are finished with writing your answers and are ready to submit your answer, convert it to PDF (no MS Word) and upload it to SIC unzipped, before the deadline mentioned on SIC.**
- 11) Do not make any changes to the format provided.**
- 12) Failure in following the above instructions might result in deduction of marks.**

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**Sessional Assignment, Course: - Mobile Computing**

**Deadline: - Mentioned on SIC**

**Marks: - 20**

**Program: - BS (CS), BS-SE**

**Dated: 11 April 2020**

**Related Course: Lecture 7 and 8.**

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**Class and Section: \_\_\_BS SE B\_\_\_\_\_**

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**Q1: In what aspects is an Adhoc network different from infrastructure networks? (3)**

**Ans Infrastructure network;**

**In infrastructure network the communication occurs only between the wireless nodes and access points. Not directly between the wireless nodes.**

**Adhoc Network;**

**In adhoc network each nodes communicates directly with other nodes so no access point control is needed**

**Q2: What is the difference between reactive and proactive routing protocols in MANETS? (3)**

**Ans Proactive Routing Protocols;**

**In proactive routing protocols each node of the network maintains a single or multiple routing tables that are regular updated.**

**Reactive Routing Protocols;**

**In Reactive protocol in mobile adhoc network each network nodes discover its route to its destination on demand.**

**Q3: Differentiate between regular and MPR flooding? (2)**

**Ans; MPR flooding protocols through simulation.MPR flooding is the auto configuration protocol we proposed for OSLR.**

**Regular is Expression of a pattern in a string using special characters and words.**

**Q4: On which path is the route reply message sent in DSR? (3)**

**Ans Route requests RREQ are forwarded in a manner similar to DSR**

**Q5: What is source routing?**

**(2)**

**Ans Source Routing;**

**In computer networking source routing also called path addressing allows a sender of a packet to a partially or completely specify the route the packet takes through the network.**

**Q6: If AODV does not store route information in the packet then how does the routing works?**

**(4)**

**Ans; The adhoc demands distance vector algorithm enables dynamic self starting multi hop routing between participating mobile nodes wishing to establish and maintain hoc network.**

**Q7. What are the functions of sequence numbers in AODV?**

**(3)**

**Ans AODV differs from other on demand an up to date path to a destination every entry in the routing table is associated with a sequence number.**