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.

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: BSSE 8 (A)

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

Ans: Adhoc Network is different form Infrastructure Networks because in Adhoc Network the device are connected directly to each other, there is no central device. While in Infrastructure Networks there is a central device from which all the devices are connected.

 Q2: **What is the difference between reactive and proactive routing protocols in MANETS?**
(3)
Ans:
REACTIVE ROUTING PROTOCOL:
Reactive Routing Protocols is high because routes are created on demand. In Reactive Routing Protocols the Periodic update is not required. In Reactive Routing Protocols the availability of routes in created on demand.

PROACTIVE ROUTING PROTOCOL:
In Proactive routing Protocols is low because the routes are predefined.In Proactive routing Protocols the Periodic update is always required.In Proactive routing Protocols the routes are always available.

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

Ans: A Regular Flooding is the point at which a parcel must be overflowed, every hub in the system rehashes this bundle the first occasion when it gets it. Along these lines beginning from the wellspring of the bundle, every hub in the part associated with the source will get the parcel in any event once.
In MPR Flooding the quantity of repeaters yet at the same time guaranteeing that every hub in the system gets an overwhelmed bundle at any rate once. A MPR Flooding is one of the most

famous such improvement having every hub select an insignificant arrangement of MPR's answerable for transferring overflowed parcels.

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

Ans: DSR uses existing routes to source to send route reply message.
MAC routes is used when the links have to be bi directional. RREP is used when the links have unidirectional.

Q5: What is source routing? (2)

Ans: It is a specific routing process where the senders can specify the route which data packets take through a network it allows for troubleshooting and various transmission goals and it is alternative to customary routing where packets move through a network which is based on their destination.

Q6: If AODV does not store route information in the packet then how does the routing works? (4)

Ans: The AODV does not store route information in the packet and does the routing because each and every forwarder remembers its reverse path to the sender. The sender sends the message to the receiver and reverse back through its source routing.

Q7. What are the functions of sequence numbers in AODV? (3)

Ans: AODV is not quite the same as other on request directing convention since it use arrangement numbers to decide and modern course to a goal. Each passage in the way goal is assigned with a succession number which makes the information secure and sends it to the craving sender.