Reg. No. \_\_\_\_\_\_\_\_\_\_\_\_\_



**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **14CS2014** | **Duration :** | **3hrs** |
| **Sub. Name :** | **AD HOC NETWORKS** | **Max. Marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Explain different traffic profiles and different types of mobile host movements that can affect the validity of routes in Adhoc network with necessary diagrams. Also, brief about the challenges faced by adhoc mobile networks. | CO1 | 20 |
| **(OR)** | | | | |
| 2. | a. | Compare and contrast adhoc network and wireless sensor network. | CO1 | 6 |
| b. | Discuss about the various problems in Adhoc Channel access. | CO1 | 14 |
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| 3. |  | Illustrate and explain the different phases in associativity based routing protocol. | CO2 | 20 |
| **(OR)** | | | | |
| 4. | a. | Classify the different types of adhoc routing protocols with examples. | CO2 | 8 |
| b. | Discuss on smart batteries and its characteristics. | CO1 | 12 |
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| 5. | a. | Describe the functioning of DSR routing protocol with neat diagrams. | CO2 | 14 |
| b. | Elaborate different sub-protocols involved in ZRP. | CO2 | 6 |
| **(OR)** | | | | |
| 6. |  | What are the various factors that impact the communication throughput, end-to-end delay performance, route reconfiguration and route discovery time in Adhoc networks? Explain each in detail. | CO2 | 20 |
|  |  |  |  |  |
| 7. |  | Illustrate the mechanism used in TCP congestion control. Explain four different versions of TCP protocol. | CO3 | 20 |
| **(OR)** | | | | |
| 8. | a. | Describe DVMRP and CAMP multicast routing protocols in Adhoc Network. | CO2 | 14 |
| b. | List the classification of adhoc multicast routing protocol based on multicast delivery structures. | CO2 | 6 |
|  | | **Compulsory**: |  |  |
| 9. | a. | Illustrate and explain the functioning of various components in Associativity-based Adhoc multicast (ABAM) protocol. | CO2 | 14 |
| b. | Discuss on Location based multicast routing protocol. | CO2 | 6 |