12/5/2016 BE comp (CBSGS) sem-VIII sub- AWN

QP Code : 721100

(3 Hours) [Total Marks : 80

N.B. : (1) Question no. **1** is **compulsory**.
(2) Attempt **any three** of remaining five questions.
(3) **All** questions carry **equal** marks.

1 (a) What are the major challenges a routing protocol faces in Ad-hoc wireless networks. 10
(b) Explain different issues in Ad-hoc wireless network. 10

2 (a) List and explain in brief network layer attacks. 10
(b) What do you mean by proactive and reactive routing? Explain in brief any one on demand routing protocol. 10

3 (a) Explain the Zone Routing Protocol (ZRP) with example. 10
(b) Give brief explanations of power aware routing metrics of Ad-hoc wireless networks. 10

4. (a) Explain the design choice for providing QoS support for Ad-hoc wireless networks. 10
(b) Illustrate the DSDV routing protocol with example 10

5. (a) Why does TCP not perform well in Ad-hoc wireless networks? Explain 10
(b) What are the main issues that need to be addressed while designing a MAC protocol for Ad-hoc network. 10

6. (a) Briefly explain the network security requirements and give classification of security attacks on Ad-hoc wireless networks. 10
(b) Explain ticket based QoS routing protocol. 10