

[Time: 3 Hours]

[Marks:80]

Please check whether you have got the right question paper.

- N.B:
1. Question no. 1 is compulsory.
  2. Solve any three questions out of remaining.
  3. Make suitable assumptions whenever necessary.
  4. Figures to the right indicates full marks.

- Q.1 (a) Classify MAC layer QoS Solutions. **05**
- Q.1 (b) Explain hidden and exposed problem in wireless ad-hoc networks. **05**
- Q.1 (c) Discuss attacks at network layer of wireless ad-hoc networks. **05**
- Q.1 (d) State different issues of Ad-Hoc Wireless network. **05**
- Q.2 (a) What are the major challenges a routing protocol faces in Ad-Hoc wireless network. **10**
- Q.2 (b) Explain Key Management in Ad Hoc Wireless Networks. **10**
- Q.3 (a) Discuss in detail transparency Predictive Location-Based QoS Routing Protocol. **10**
- Q.3 (b) State and explain the differences between infrastructure networks and ad hoc wireless networks. **10**
- Q.4 (a) Discuss Dynamic Source Routing Protocol in Ad Hoc Wireless Networks. **10**
- Q.4 (b) Explain split-TCP. **10**
- Q.5 (a) Classify routing protocols of wireless networks based on the Routing Information Update Mechanism. **10**
- Q.5 (b) Explain the need of power management in Ad-Hoc wireless network. **10**
- Q.6 (a) TCP does not perform well in Ad Hoc Wireless Networks. Justify. **10**
- Q.6 (b) Discuss in brief any one hierarchical routing protocol of wireless ah-hoc networks. **10**

\*\*\*\*\*