

Seat No.	
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**B.E. (Computer Science and Engineering) (Part-IV) (Semester - VII)**  
**Examination, November - 2017**

**AD HOC WIRELESS NETWORK (Elective-I)**

**Sub. Code : 67547**

**Day and Date : Tuesday, 21 - 11 - 2017**

**Total Marks : 100**

**Time : 2.30 p.m to 5.30 p.m.**

- Instructions :**
- 1) Solve any three questions from each section.
  - 2) Figure to right indicates marks.
  - 3) Make necessary assumptions if required.

**SECTION - I**

- Q1) a)** Explain hidden terminal and exposed terminal problem Ad Hoc Wireless Network [8]
- b)** How beacon signals are used by Associativity Based Routing Protocol ? Explain ABR in detail. [8]
- Q2) a)** Explain Location Aided Routing:- LAR1 and LAR2 approach in detail. [9]
- b)** Explain Characteristics for ideal Routing Protocol for Ad Hoc wireless network. [8]
- Q3) a)** Explain ZRP routing protocol in detail. [8]
- b)** Explain MACA-By invitation protocol in detail. [8]
- Q4) a)** Explain MACAW protocol with neat timing diagram and control signals. [9]
- b)** What are the applications of Ad Hoc wireless network? [8]

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SECTION - II

- Q5) a) Explain Bandwidth Efficient Multicast Routing protocol in detail. [8]  
b) Why TCP does not perform well in Ad Hoc wireless network. [8]
- Q6) a) Explain Preferred Link-Based Multicast Routing Protocol in details [8]  
b) Explain Security Aware Routing AODV protocol in Ad Hoc wireless network. [8]
- Q7) a) Explain INSIGNIA QoS model in detail. [9]  
b) What are device and processor energy management schemes [8]
- Q8) a) What are the Network Layer Attacks in Ad Hoc wireless network? Explain in detail. [9]  
b) What are the design issues and challenges for Transport Layer in Ad Hoc Wireless network. [8]

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