

Code No: **R32051****R10****Set No. 1****III B.Tech II Semester Supplementary Examinations, April - 2017****ADVANCED COMPUTER NETWORKS****(Computer Science Engineering)****Time: 3 hours****Max. Marks: 75****Answer any FIVE Questions****All Questions carry equal marks**

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- 1 a) Explain different methods that can be used for broadcast routing. [8M]  
b) Explain about Route Discovery and Route Maintenance in MANETS. [7M]
- 2 a) For the IPv4 addresses given below calculate Subnet Mask, Broadcast Address and Number of Hosts possible. [8M]  
i. 10.0.199.237/22  
ii. 192.168.14.87/26  
b) What is the necessity of IPv6 addressing? And how IPv6 is advantageous over IPv4? [7M]
- 3 With a neat sketch explain the architecture of IPv4 datagram. [15M]
- 4 a) Elaborate on different methods in TCP to handle flow control. [8M]  
b) Explain association establishment process in SCTP. [7M]
- 5 a) Write notes on open loop and closed loop congestion control methods. [8M]  
b) Write notes on congestion control in TCP. [7M]
- 6 a) Explain in detail about HTTP methods. [8M]  
b) Explain about the JPEG standard. [7M]
- 7 a) Discuss about the protocol stack issues in mobile computing. [8M]  
b) What are the mobility issues in mobile computing? [7M]
- 8 Explain in detail about the design of Wireless mesh Networks and also present different issues in them [15M]

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