

Code No: **R32051****R10****Set No. 1****III B.Tech II Semester Supplementary Examinations, April -2018****ADVANCED COMPUTER NETWORKS**

(Common to Computer Science Engineering and Information Technology)

Time: 3 hours**Max. Marks: 75**

Answer any FIVE Questions
All Questions carry equal marks

- 1
 - a) Compare virtual circuits and datagram subnets. [4M]
 - b) What is routing algorithm? Explain hierarchical routing algorithm. [6M]
 - c) What is congestion? Explain Load shedding algorithm. [5M]
- 2
 - a) Compare the merits and demerits of classfull addressing system and classless addressing system. [4M]
 - b) Explain Network Address Translation in detail. [7M]
 - c) Explain IPV6 address space. [4M]
- 3
 - a) What is fragmentation? Explain the transparent and non-transparent fragmentation in detail. [8M]
 - b) Explain IPV4 header format. [7M]
- 4
 - a) What is TCP? Explain TCP segment format in detail. [8M]
 - b) Explain SCTP packet format and list its advantages. [7M]
- 5
 - a) What is open loop and closed loop congestion control? Explain. [3M]
 - b) What is QoS? List the QoS requirements of few applications. [3M]
 - c) Explain the traffic shaping algorithms in detail. [9M]
- 6
 - a) Explain the architecture, services and protocols of email. [8M]
 - b) What is www? Explain static and dynamic web documents in detail. [7M]
- 7
 - a) Explain protocol stack issues and mobility issues in mobile computing. [6M]
 - b) Explain different routing protocols in MANETs. [9M]
- 8
 - a) Explain wireless mesh network design and different issues of WMN. [8M]
 - b) Explain P2P networks in detail. [7M]
