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Code No: **R32051** 

## III B.Tech II Semester Supplementary Examinations, November - 2017 ADVANCED COMPUTER NETWORKS

(Common to Computer Science and Engineering, Information Technology)

## **Time: 3 hours** Max. Marks: 75 **Answer any FIVE Questions** All Questions carry equal marks \*\*\*\*\* 1 a) Explain about Network Layer design issues [5M] b) Explain link state routing algorithm. [10M] Explain about classful addressing, classless addressing 2 a) [8M] b) Explain the need for network layer internet as a data gram [7M] What is fragmentation?Explain the fragmentation in IPV4 3 a) [8M] Explain the process of Transition from IPV4 to IPV6 b) [7M] 4 a) Explain UDP in detail. [8M] b) Explain about flow control and error control with respect to TCP [7M] What is QOS ?Discuss in brief techniques to improve QOS 5 a) [8M] Compare and contrast open loop congestion control & closed loop congestion b) [7M] control 6 a) Explain about static web documents and dynamic web documents with an [8M] example b) Explain about video compression and video on demand [7M] 7 a) Explain the protocol Stack Issues in Mobile Computing Environment [8M] b) Explain the importance of the Ad Hoc networks security [7M] 8 a) Explain about sensor network operation and sensor Architecture [8M] b) Explain the issues in Grid construction technology [7M]

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