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Code No: 5405AB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M. Tech I Semester Examinations, July/August - 2021
COMPUTER NETWORKING
(Computer Science)

Time: 3 Hours   Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks
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1.a)   Give the significance of Asynchronous transfer mode.
  b)   Explain about delay tolerant Networks.   [8+7]

2.   Describe IPv4 and IPv6 header fields with neat sketch. Do they have any fields in common?   [15]

3.a)   Discuss the strategies, TCP uses to avoid congestion.
  b)   SMTP, FTP and HTTP are protocols to transfer messages from one point to another. Compare and contrast their use.   [7+8]

4.a)   Discuss important concepts of cellular networks.
  b)   Write short note on Wireless Mesh Networks.   [8+7]

5.a)   What are the four SONET layers? Explain their functions.
  b)   Explain the function of basic optical networking devices.   [7+8]

6.a)   Explain virtual LAN with neat sketch.
  b)   Explain MAC and LLC layers in detail.   [7+8]

7.   Explain Routing Information Protocol (RIP), Interior Gateway Routing Protocol (IGRP) and Spanning Tree Protocol (STP).   [15]

8.   Write TCP header format. Explain TCP connection establishment and TCP connection termination process.   [15]

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