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Total Pages: 03

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COMPUTER NETWORKS PC-CS-304E

Time: Three Hours]

[Maximum Marks: 75

Note: Attempt Five questions in all, selecting at least one question from each Unit.

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- (a) What are the advantages that packet switching have over circuit switching? Describe the sur
 - (b) Explain TDM, FDM, WDM, TDMA and FDMA along with unique advantages and features of each.

2. (a) Consider a 3 kHz channel with 8-level signaling. Obtain and compare bit rate to channel capacity at 20 dB SNR.

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Explain different types of transmission media and (b) their advantages.

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(a) In a LAN, which MAC protocol has a higher 3. efficiency: ALOHA or CSMA-CD? Justify your answer.

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P.T.O.

8. (a) Explain the working of SNMP. Describe any three message types out of several available in SNMP. 9

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(b) What is the difference between leaky bucket and token bucket algorithms? Discuss the two algorithms.

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