

R09

Code No: 57095

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech IV Year I Semester Examinations, December - 2019
ADVANCED TELECOMMUNICATION TECHNOLOGIES
(Electronics and Telematics Engineering)

Time: 3 Hours

Max. Marks: 75

Answer any Five Questions
All Questions Carry Equal Marks

- 1.a) Discuss the interactive and distributed services of BISDN.
b) What are the principles and objectives of BISDN?
c) Draw the structure of BISDN and explain transmission rates supported. [5+5+5]
- 2.a) Explain the capabilities of ISDN signaling.
b) Write short notes on Broadband network performance. [8+7]
- 3.a) What are the data link protocols used by BISDN. Explain.
b) Describe BISDN layered architecture in detail. [7+8]
4. Briefly explain the following:
a) Cell structure
b) Cell header [8+7]
- 5.a) Discuss the various switching elements with neat sketches.
b) What do you mean by multicast functionality? Explain. [8+7]
- 6.a) What do you understand by the term system depth? Explain.
b) Explain the network management in ATM's. [7+8]
- 7.a) Explain the following terms
i) Delay Trade-off ii) Lost packet rate
b) Briefly explain the media gateway controller and its protocols. [8+7]
8. How does CATV is used as a basic transport medium for the last mile? Discuss. [15]

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