

III B. Tech I Semester Supplementary Examinations, October/November- 2018**DATA COMMUNICATION**

(Common to Computer Science Engineering and Information Technology)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
 2. Answering the question in **Part-A** is compulsory
 3. Answer any **THREE** Questions from **Part-B**
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PART -A

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|---|----|---|------|
| 1 | a) | How we can check the effectiveness of data communication? | [3M] |
| | b) | What are the classes of transmission media? | [4M] |
| | c) | Define A law companding and μ law companding | [4M] |
| | d) | What are the Optical Properties of Radio Waves? | [4M] |
| | e) | Explain the Call Progress Tones and Signals. | [4M] |
| | f) | What is meant by Modem Synchronization? | [3M] |

PART -B

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|---|----|--|------|
| 2 | a) | Explain about Data communication networks. | [4M] |
| | b) | Discuss about ISO/OSI reference model with neat sketch. | [8M] |
| | c) | What is the significance of layered architecture in Computer networks? | [4M] |
| 3 | a) | Write the advantages of optical fiber communication. | [3M] |
| | b) | with neat block diagram, explain the general system of optical fiber communication | [8M] |
| | c) | Discuss about laser diode. | [5M] |
| 4 | a) | What are the drawbacks of DM? How can we overcome those drawbacks? | [8M] |
| | b) | Discuss about WDM in detail. | [8M] |
| 5 | a) | List and explain the Optical Properties of Radio Waves? | [8M] |
| | b) | Discuss in brief the application of satellite communications. | [8M] |
| 6 | a) | Explain the concept of Paging systems. | [8M] |
| | b) | List out the Difference between analog and digital systems. | [8M] |
| 7 | a) | Explain the significance of barcodes in detail | [8M] |
| | b) | Write short notes on 56K Modems. | [8M] |

