

Code No: PT32052

www.FirstRanker.com

www.FirstRanker.com





III B. Tech II Semester (Substitute Subject) Regular/ Supply Examinations, April - 2018 **DATA COMMUNICATION**

(Common to CSE and IT)

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

PART –A

| 1 | a) | Explain Peer-to-Peer client/server network. | [4M] |
|---|-----|---|----------------|
| | b) | Write a note on Transverse Electromagnetic wave. | [4M] |
| | c) | List and explain the four most common methods of pulse modulation. | [4M] |
| | d) | Define Electromagnetic Radiation. | [3M] |
| | e) | List the features of personal communication system. | [3M] |
| | f) | Define data communication modems and tell why they are used in data communications circuits. | [4M] |
| | | PART –B | |
| 2 | -) | | [0] /] |
| 2 | a) | Explain briefly about standards organization for data communication. | [8M] |
| | b) | Define digital modulation? Give a brief description of amplitude-shift keying and frequency-shift keying. | [8M] |
| 3 | a) | Draw the electromagnetic frequency spectrum and explain it. | [8M] |
| | b) | Write the advantage and disadvantages of optical fiber comparison. | [8M] |
| 4 | a) | Define signal voltage-to-quantization noise ratio. Determine the SQR for | [8M] |
| | 1 \ | Linear PCM Code. | |
| | b) | Define T Carrier system? Describe a T1 carrier system. | [8M] |
| 5 | a) | Draw the block diagram of microwave Radio link and explain it. | [8M] |
| | b) | Write the advantages and disadvantages of Geosynchronous satellite. | [8M] |
| 6 | a) | Briefly describe the basic functions of a standard telephone set. | [8M] |
| 0 | b) | Describe the united states digital cellular system. | [8M] |
| | -) | ······································ | r1 |
| 7 | a) | Define POSTNET. How logic 0s and 1s indicated with the POSTNET base code | [8M] |
| | b) | Give the difference between asynchronous and synchronous modems. | [8M] |
| | - | • • | |

www.FirstRanker.com