

SE | (M P N) | U (R.)
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49 : 2nd half-12-(I) JP

Con. 10502-12.

KR-7364

(3 Hours)

[Total Marks : 100

- N.B.:** (1) Q.1 is Compulsory.
(2) Attempt any 4 questions of remaining 6 questions.
(3) Figures to the right indicate full marks for the questions.
(4) Assume suitable data if required.
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| Q.1. | (a) Distinguish between AM & FM. | 5 |
| | (b) Explain Shannon's Theorem. | 5 |
| | (c) Distinguish between Analog & Digital Modulation. | 5 |
| | (d) Explain Cyclic codes. | 5 |
| Q.2. | (a) Explain phase modulation & demodulation. | 10 |
| | (b) Explain frequency modulators & demodulators. | 10 |
| Q.3. | (a) Explain sampling theorem for low pass & band pass filters. Also explain sampling technique principles. | 10 |
| | (b) Explain generation & detection of PAM. | 10 |
| Q.4. | (a) Explain TDM & FDM. | 10 |
| | (b) Explain PCM in detail. | 10 |
| Q.5. | (a) What is delta modulation & also explain adaptive delta modulation. | 10 |
| | (b) Explain ISI & how it reduce. | 10 |
| Q.6. | (a) What is effect of Gaussian Noise on digital communication. | 10 |
| | (b) Explain QPSK Transmitter & Receiver System. | 10 |
| Q.7. | Write Short Notes On : | 20 |
| | (a) Thermal Noise. | |
| | (b) QAM | |
| | (c) Noise Triangle. | |
| | (d) PCM waveform types. | |
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