

N.B. : Solve any five questions.

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| 1. | (a) Explain scalar quantization. | 10 |
| | (b) Draw and explain JPEG image format. | 10 |
| 2. | (a) Draw and explain MPEG audio formats. | 10 |
| | (b) Compare LZ77, LZ78 and LZW algorithms. | 10 |
| 3. | (a) Classify security attacks and security goals (services). Also relate them. | 10 |
| | (b) Explain discrete logarithm and chine remainder theorem and its use in security. | 10 |
| 4. | (a) Explain any one MAC standard. | 10 |
| | (b) Justify the use of PCM for image compression. | 10 |
| 5. | (a) Explain PPM method for text compression. | 10 |
| | (b) List the 10 application for text, audio, video and suggest the appropriate compression technique. | 10 |
| 6. | (a) Explain how key management and distribution is a problem and how is it solved. | 10 |
| | (b) Explain M-Law and A-Law compounding for audio compression. | 10 |
| 7. | (a) Explain hybrid use of cryptography to send large file over networking for efficiency. | 10 |
| | (b) Write short note (any one) : | 10 |
| | (i) Linear predictive coding, | |
| | (ii) Elliptic curve cryptography. | |