



বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

**M.Sc. Examinations 2020**

**Semester IV**

**Subject: COMPUTER SCIENCE**

**Paper: COS- 402**

(Theory)

**Full Marks: 40**

**Time: 2hrs.**

*Candidates are required to give their answers in their own words as far as practicable.*

Answer any One of the following questions

Theory

**Paper : 402 (Cryptography and Steganography)**

1. Write a Short Note on Mono-alphabetic, Poly-alphabetic ciphers and Transposition cipher with example and distinguish between them.
2. Define S-box, D-box and Feistel cipher with example
3. Write a Short Note on DES function.
4. Write a Short Note on AES
5. Write encoding and decoding scheme of F4 algorithm.
6. Explain PVD based Steganographic Scheme
7. Explain Weighted matrix based Steganographic Scheme
8. Compare AES and DES in terms of substitution, permutation and round keys
9. Write encoding and decoding scheme of F3 algorithm.
10. Write short notes on DCT based Steganographic Scheme.
11. Write encoding and decoding scheme of Jsteg and Outguess 0.1 algorithm.
12. Write short notes on various Steganalysis Schemes.



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