

Front Page of Answer Book

Enrollment Number: 2 0 1 9 B T C S 0 8 8

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Name of Program: B. TECH Year/Semester: 3RD YEAR/5TH SEMESTER

Name of Paper: <u>Cryptography & Cyber Security</u> Paper Code: <u>BTCS0501</u>

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Total No. of Pages.: 02

Instructions for Examinees

- 1. Fill up all entries required in this page.
- 2. Merge this doc page with your scanned answer sheets as a first page in a single PDF file.
- 3. Write your answers on A4 Ruled Sheets/Register Pages.
- 4. Write End after the last attempted question.
- 5. Write the page number on every page and mentioned Total No. of Pages on front Page.
- 6. If the content in the Answer Book of two students or more has found similar, in that case all copied answer will stand cancelled.

PRACTICAL ACTIVITY

Q1. What do you mean by DNA Computing? Ams1: DNA stornds for [DeoxyribonucleicAcid] DNA Computing & a integrated branch of computer science and biology Sciences that uses a computer (which uses DNA) to store information be perform complex how calculations. The main benefit of using DNA computers to solve complex problems is that different possible solutions are created all at once. Kin as Parallel Processing. Need of DNA Computing: Due to big data (extremely deuse information storage) volume And computing this much chunk of data Requires , unlimited space, -energy feliciticity) also storage albackup.

Eg: 1 gram of DNA HOLD 1×10' MB Qz. What is Cipher Feedback Mode? Application of CFB.

In this mode, the appear is given as feedback to nextblock of encyption with same new applications: First an initial rector IV is used for first encuption & output bits are divided as a set of Round. 6 b-s' bits. The left Hand Side 's' bits are related & one applied. on XOR application

with plaintext bits. The result is given as Input to shift Register & process

What is Output Feedback Made? Application of OFB.

The output Feedback Mode follows Nearly the same process as Epher feedback mode, except that it sends the encrypted output as feedback. Instead of actual aphen which is XOR O/P. Inthis mode all bits are sent instead of reading selected S-bits.

yqueth YASH GUPTA 2019BTCS088 BTECH CSIT I SEM CCS-21/01/2022