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Question Paper Code: 20428

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2022.

Sixth/Seventh Semester

Computer Science and Engineering

CS 8792 — CRYPTOGRAPHY AND NETWORK SECURITY

(Common to :Computer and Communication Engineering/Electronics and Communication Engineering/Electronics and Telecommunication Engineering/Information Technology)

(Regulations 2017)

Time: Three hours

Maximum: 100 marks

Answer ALL questions.

PART A — $(10 \times 2 = 20 \text{ marks})$

- 1. What are the two types of passive attacks?
- 2. Perform encryption for the plain text "AUTHENTICATION AND INTEGRITY" using single columnar transposition technique and the key is 614352.
- 3. Compare differential and Linear cryptanalysis.
- 4. Find gcd(45, 6) using Euclidean algorithm.
- 5. Find the value of 624 mod 35 using Euler's theorem.
- 6. What are the various ways to distribute the keys?
- 7. List the properties of hash function.
- 8. Why do we need digital signature?
- 9. List the five services provided by PGP.
- 10. Mention the difference between virus, worm and Trojan horse.

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