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Seat No.	
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B.TECH (Semester-V) (CBCS)

Examination, May, 2025

Computer Science and Engineering (AIML)

INFORMATION SECURITY

Subject Code : 92007

Day and Date : Saturday, 10/05/2025

Total Marks : 70

Time : 02.30 p.m. to 05.00 p.m.

- Instructions :**
- 1) **Question no. 6 is compulsory**
 - 2) **Solve any four questions from Q. No. 1 to Q. No. 5**
 - 3) **Assume suitable data wherever necessary**
 - 4) **Figures to the right indicate full marks**

- Q.1) a) What is OSI Security Architecture? [08]**
- b) Explain Message authentication code (MAC) [07]**
- Q.2) a) How do we achieve authentication, confidentiality and Confidentiality and authentication using PGP? [08]**
- b) Explain Symmetric Cipher Models with block diagram. [07]**
- Q.3) a) Write DES algorithm. [08]**
- b) What is IP Sec Authentication Header? [07]**
- Q.4) a) Explain Secure Electronic Transaction. [08]**
- b) Explain Password management scheme. [07]**

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Q.5) a) Using Playfair cipher, encrypt the plaintext “instruments” using ‘MONARCHY’ keyword. [08]

b) State the difference between Digital signature and electronic signature. [07]

Q.6) Write a short note on (Any 2) : [10]

a) Kerberos.

b) Spoofing.

c) S/MIME
