No.	:	
	No.	No. :

Total No. of Questions: 16] [Total No. of Printed Pages: 3

SEM-3025

M.Sc. (IIIrd Semester) Examination, 2022 CYBER SECURITY

Paper - MCSEC-302

(Biometric Security)

Time: 3 Hours [Maximum Marks: 40

The question paper contains three Sections.

Section-A (Marks : $1 \times 10 = 10$)

Note: Answer all the *ten* questions carries 1 mark each. The answer should not exceed **50** words.

Section–B (Marks : $3 \times 5 = 15$)

Note: Answer any *five* questions by selecting at least *one* question from each Unit. Each question carries **3** marks. Answer should not exceed **200** words.

Section–C (Marks : $5 \times 3 = 15$)

Note: Answer *three* questions by selecting *one* question from each Unit. Each question carries **5** marks. The answer should not exceed **500** words.

Section-A

1. (i) Define Biometric.

BR-845 (1) SEM-3025 P.T.O.

- (ii) Write names of any four types of biometric systems.
- (iii) What is DNA? Define it.
- (iv) Write one weakness of Retina Biometric.
- (v) Give any five applications of biometric in our day-to-day life.
- (vi) What do you understand by Behavioural Biometric?
- (vii) What do you understand by Keystroke?
- (viii) Define Physiological Biometrics.
- (ix) Can voice of a person be useful as Biometric? Explain how?
- (x) What are the key criteria to select a Biometric method?

Section-B

Unit-I

- 2. What are the benefits of biometrics over traditional authentication system?
- 3. What do you understand by Accuracy of Biometric System? How one can say that a biometric system is more accurate than traditional methods?
- 4. Write a detailed note on applications of Biometric Identification.

Unit-II

- 5. Explain strengths and weaknessess of Fingerprints Biometric systems.
- 6. Is there any difference between Iris scan and Retina vascular scan? Explain.
- 7. Explain the usefulness of DNA Biometric.

Unit-III

- 8. Can signature of a person be a Biometric system for identification? Explain how?
- 9. How voice data acquisition and feature extraction can be done? Write strength and weaknesses of voice biometric system.
- 10. Write a detailed note on Multifactor Biometrics.

BR-845 (2) SEM-3025

Section-C

Unit-I

- 11. Explain the various biometric matching methods. How modern biometric systems are useful than traditional ones?
- 12. Explain complete process of Biometric Identification.

Unit-II

- 13. Explain Facial Scan Identification System in detail.
- 14. Explain hand scan biometric system in detail. Is it different from Handprint biometric system ?

Unit-III

- 15. Explain DNA biometric, its process, advantages and disadvantages.
- 16. Write short notes on the following:
 - (a) Multibiometrics
 - (b) Keystroke dynamics

BR-845 (3) SEM-3025