



BRAINWARE UNIVERSITY

Term End Examination 2023-2024
Programme – M.Sc.(ANCS)-2022
Course Name – Biometric Security
Course Code - MNCS304B
(Semester III)

Library erails and Brainware University Road, Barantishnapur Road, Toures and Road, Road, Road, Road, Road, Road, Road, West Bengal Toures (Mala).

Full Marks: 60

Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- 1. Choose the correct alternative from the following:
- (i) Select the reason why combining biometric authentication with OTPs is considered a strong security practice.
 - a) It prevents the need for biometric enrollment.
 - c) It speeds up the authentication process.
- b) It ensures that users don't need to remember passwords.
- d) It adds two distinct and independent layers of verification.
- (ii) Test the reason why OTPs are effective for security in biometric authentication.
 - a) OTPs are permanent codes linked to the user\'s biometric data
 - c) OTPs can be used across multiple authentication sessions
- b) OTPs are time-sensitive and valid only for a short duration
- d) OTPs are stored on the user\'s device for easy access
- (iii) In a biometric 2FA system with OTPs, test the step comes after successful biometric authentication.
 - a) User account creation

- b) One-Time Password generation
- c) Capturing additional biometric data
- d) User identity verification through email
- (iv) Predict that the biometric security with OTPs that helps to mitigate the risk of data breaches.
 - a) It encrypts biometric data during transmission
- b) It prevents unauthorized access through biometric cloning
- c) It allows unlimited login attempts with OTPs d) It stores biometric data in public databases
- (v) Decide the strength of signature-scan technology.
 - a) Resistance to imposters

b) Requirement for specialized devices

c) Inconsistent signatures

- d) Limited applications
- (vi) Recognize the reason for selecting a biometric system.
 - a) Accuracy

b) Acceptability

c) Cost effectiveness

- d) All of the above
- (vii) Memorize FNMR in biometric system.

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12. Judge the potential future growth areas for iris recognition technology and its current applications, such as in physical access and network security.

Justify the concept of Two-Factor Authentication (2FA) in detail. Discuss its significance in (5) enhancing security and provide examples of where it is commonly used.

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