

Mid-West University
Examinations Management Office
Final Examinations -2081

Level: Bachelors/ BIT/Semester: II

F. M: 60

Time: 3hrs.

P. M: 30

Subject: Principle of Cybersecurity (BIT423)

Candidates are required to give their answers in their own words as far as practicable. Figures in the margins indicate marks.

Group A

Very short questions

[8 x 2 = 16]

Attempt all the questions.

1. Define Cyber Threat.
2. What do you mean by Cryptography?
3. What is Firewall. Illustrate its uses.
4. What do you mean by Snooping?
5. What is a trojan horse?
6. Define Denial of Service Attack.
7. What are the types of Computer Security?
8. Explain network security model.

Group B

Short answer questions

[5 x 4 = 20]

Attempt any five questions. '

9. Define Hash Function. Explain its application.
10. Explain MD5(Message Digest Algorithm).

11. Differentiate between Symmetric Cryptography and Asymmetric Cryptography.
12. Explain the Concept of Public Key Infrastructure(PKI).
13. Describe Network Security. Explain its importance.
14. Explain the Challenges of Cyber Security.

Group C

Long answer questions

[3 x 8 = 24]

Attempt any three questions.

15. Explain Caesar Cipher. Decrypt the ciphertext "TEXER MR GWMX" with key=4.
16. Describe RSA Algorithm. What are the benefits of Digital Signatures?
17. What is user Authentication? Explain the common method of authentication.
18. What is an Anti-Virus? Explain its working Principle.

The End