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MSE-031

**MASTER OF SCIENCE
(INFORMATION SECURITY) (MSCIS)**

Term-End Examination

June, 2023

MSE-031 : CYBER SECURITY USING PYTHON

Time : 3 Hours

Maximum Marks : 100

Note : *Question No. 1 is compulsory. Attempt any
four from the rest six questions.*

1. (a) Write stepwise procedure to install Python and write minimum system resources required. 10
- (b) Write and explain any *five* features of Python. 10
2. (a) What do you mean by Python Libraries ? Give illustration. 10
- (b) What is a graphical user interface ? Discuss its common elements. 10
3. (a) What do you mean by cyber security ? Write and explain any *four* cyber threats. 10

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- (b) Write and explain any *two* encryption standards. 10
4. (a) Describe the purpose of conducting network log analysis. Explain it with any *one* tool which you are familiar. 10
- (b) Write and explain any *five* attacks on wi-fi networks scripting (XSS). 10
5. (a) Describe cross-site attacks. Explain with an example. 10
- (b) Write and explain any *five* vulnerabilities in a website procedure to prevent. 10
6. (a) What is social media analysis for information gathering ? Explain it with an example. 10
- (b) Explain the use of Python for web scraping. 10
7. Write short notes on any *four* of the following in about **150** words each : $5 \times 4 = 20$
- (a) Code Injection
- (b) SOCMINT
- (c) Virtual Environment
- (d) Interacting Programming
- (e) Benefits of Python for Cyber Security
- (f) Packet sniffing