

RANI RASHMONI GREEN UNIVERSITY
Post Graduate Department of Computer Science
M.Sc. Semester-I Examinations 2024
Subject: Computer Science
Paper: MSCCS103 (Computer Network & Cyber Security)

Time: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates are required to give their answer in their own words as far as practicable.*

Group A

5x2=10

1. Answer any five questions.

- i. What is “Solar Winds Supply Chain Attack”?
- ii. How can the drawbacks of Flooding can be minimized?
- iii. What do you mean by ethical hacking?
- iv. Classify various types of port addresses with their ranges.
- v. Write the name of a routing protocol and a routed protocol.
- vi. What is Trojan Horse?
- vii. Differentiate between TCP and UDP.

Group B

[Answer any five questions]

5x6 =30

2. What is congestion? Briefly describe a congestion control algorithm with example. 6
3. Briefly describe TCP header format in detail. 6
4. How can organizations prioritize the CIA (Confidentiality, Integrity, and Availability) objectives based on their specific needs and risk profile? Can there be situations where one goal might be temporarily prioritized over another in response to a specific threat? 4+2
5. Briefly describe CSMA/CA with flowchart. 6
6. Write short notes on: (**any two**)
 - i. Distance vector routing protocol.
 - ii. ARP
 - iii. Link state routing Protocol3+3
7. Discuss different types (at least six) of Malware to launch cyber attack. 6
8. Briefly describe different classes of IP(v4) addresses with their ranges and default subnet mask. 6