Reg. No.: .....

Name: .....

University of Kerala

W7137

Third Semester FYUGP Degree Examination, November 2025

Discipline Specific Elective

COMPUTER SCIENCE

UK3DSECSC200/ UK3DSECAP200 - Introduction to Cyber Security

Academic Level: 200-299

2024 Admission

Time: 2 Hours(120 Mins) **Max. Marks: 56**

Part A.6 Marks:Time 5 Minutes.(Cognitive Level :Remember(RE)/Understand(UN)) Objective Type.1 mark each, Answer all questions

Qn No.	Question	CL	CO
1	What does the acronym “CIA” in Cyber Security stand for?	RE	1
2	A program that damages or disrupts computer operations is called _____.	RE	2
3	The term describes an attack that floods a system with traffic to make it unavailable. Options : A)XSS B)DDoS C)Rootkit D)Botnet	UN	3
4	Expand IAM	UN	2
5	The process of converting readable data into a secret code to protect it is called _____.	UN	1
6	Explain the term “Defense in Depth.”	UN	4

Part B.10 Marks.Time:20 Minutes (Cognitive Level:Understand(UN)/Apply(AP))Two-three sentences.2 marks each.Answer all questions

Qn No.	Question	CL	CO
7	Explain the reason behind cyber crime.	UN	1
8	What do you meant by drive by download.	UN	2
9	Apply the concept of TCP Flooding	AP	3
10	Interpret and define any two passive attacks in cyber field.	AP	4

Qn No.	Question	CL	CO
11	Identify which type of information system would be most appropriate for handling sales transactions in a retail business.	AP	2

Part C.16 Marks.Time:35 Minutes.(Cognitive Level :Apply(AP)/Analyse(AN))Short Answer.4 marks each, Answer all 4 questions,choosing among options * within each question

Qn No.	Question	CL	CO
12	A) Discuss Internet security OR B) Give a simple example of how a **fake email or website** can be used to steal information.	AP	2, 3
13	A) Execute the proper classification procedure for a new, highly sensitive project document. OR B) Identify the various types of endpoint security solutions and explain how they help protect organizational networks.	AP	1, 2
14	A) Analyse Different types of DOS OR B) Break down the advantages of Incremental Data Backup compared to a full backup.	AN	3, 4
15	A) **Analyze** the differences between internal and external threats and **evaluate** how each can affect the confidentiality and integrity of organizational data. OR B) Analyze how a SYN flood attack affects server and network infrastructure.	AN	1, 3

Part D.24 Marks.Time: 60 Minutes.(Cognitive Level :Analyse(AN)/Evaluate(EV)/Create(CR)) Long Answer 6 Marks each.Answer all 4 questions choosing among options * within each question

Qn No.	Question	CL	CO
16	A) Compare the importance of each CIA component in a military vs e-commerce environment. OR B) Justify the need for access management in cyber security.	AN	4, 2
17	A) Compare different types of viruses OR B) Explain endpoint security and its types.	EV	3, 4
18	A) Evaluate the role of user awareness in minimizing the spread of malware. OR B) Describe email security protocols.	EV	3, 4
19	A) Design the steps of SQL injection attacks OR B) Categorize security technologies.	CR	4, 4