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PIMPRI CHINCHWAD EDUCATION TRUST
PIMPRI CHINCHWAD UNIVERSITY
Legacy Of Nurturing Excellence Since 1990
(Established under Govt. of Maharashtra Act No. V of 2023)



SCHOOL OF COMPUTER APPLICATIONS
DEPARTMENT OF BSC (Cyber Security)

UNIT TEST-II OCTOBER-2025

Batch: 2023-2026

Program: BSC (Cyber Security) TY

Semester: V

Course Code & Name:

UETAD104/INTRODUCTION TO GAMING APPLICATION

Maximum Marks:

20

DATE OF EXAM:- 13th OCTOBER 2025
TIME OF EXAM: - 2:45 P.M

Course Outcomes:

1. Define key game theory concepts, including strategies, payoffs, Nash equilibrium, and dominant strategies, and identify their applications in real-world scenario.
2. Compute pure and mixed strategy Nash equilibria in normal-form games and apply probability-based decision-making techniques in mixed strategies.
3. Solve zero-sum games using the minimax theorem, apply iterative elimination techniques, and explain the concept of correlated equilibria.
4. Construct and analyze extensive form games, apply backward induction, and differentiate between mixed and behavioral strategies in imperfect information settings.
5. Analyze repeated games, stochastic games, Bayesian Nash equilibrium, and cooperative game concepts like the Shapley value and Core, applying them to strategic decision-making.

Instructions: Give Proper Instructions.

- All questions are compulsory, but attempt only the number of questions mentioned in each section.
- Write answers neatly and to the point, Each question carries 5 marks.
- Use clear diagrams, tables, or charts if required to explain your answer.
- Answer any 2 questions from Q.1 and any 2 questions from Q.2.

QUESTIONS		CO	BTL	Marks
Q.1 Attempt the following (Any 2)		Max Marks: 10 (2*5)		
A	What is a Zero-Sum Game? Explain the Minimax Theorem for Zero-Sum Games.	CO1	I, II	05
B	Explain the concept of Iterative Removal of Strictly Dominated Strategies (IRSDS) with an example.	CO1	II	05
C	Compare Nash Equilibrium, Minimax Strategy, and Correlated Equilibrium with examples.	CO1	II	05
Q.2 Attempt the following (Any 2)		Max Marks: 10 (2*5)		
A	Illustrate the meaning of Imperfect Information Games with real-life examples.	CO2	I, II	05
B	Explain how an extensive form game is shown using a game tree. Include players, decision points, and payoffs.	CO2	II	05
C	Define and compare Mixed Strategy and Behavioral Strategy with suitable examples.	CO2	I, II	05

*****All the Best*****

Enrolment No. _____



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SCHOOL OF COMPUTER APPLICATIONS
DEPARTMENT OF BSc(Cyber Security)

UNIT TEST-II OCTOBER-2025

PROGRAM: TYBSC CYBER SECURITY	SEMESTER: V	BATCH: 2023-26
COURSE CODE & NAME:	UBS301/MAJ ETHICAL HACKING	
MAXIMUM MARKS:	20	DATE OF EXAM: -13 TH OCTOBER 2025 TIME OF EXAM: - 11:30 A.M

Course Outcomes:

1. To Understand the core functionalities of Ethics in Regards to the Computer Security
2. To Perform foot printing and scanning.
3. To Demonstrate the Technique for System Hacking
4. To Characterise the Malware and there attacks and detect and prevent them.
5. To Detect and prevent the security attacks in different environments.

Instructions:

QUESTIONS		CO	BTL	Marks
Q.1 Attempt the following (Any 2)		Max Marks: 10 (2*5)		
A	What is Session Hijacking? Explain any two techniques used by attackers to perform session hijacking.	CO3	II	05
B	Differentiate between Denial of Service (DoS) and Distributed Denial of Service (DDoS) attacks. Suggest any two countermeasures for these attacks.	CO3	IV	05
C	What is covert communication in networking? Describe one real-life example where it can be misused.	CO3	III	05
Q.2 Attempt the following (Any 2)		Max Marks: 10 (2*5)		
A	Describe the security challenges faced by Mobile Devices. Suggest best practices to ensure mobile device security.	CO4	III	05
B	What are Wireless LANs (WLANs)? Explain the major vulnerabilities in WLANs and methods to secure them.	CO4	IV	05
C	Discuss various Wireless Technologies and explain how they impact the security of communication networks	CO4	V	05

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C	Define and compare Mixed Strategy and Behavioral Strategy with suitable examples.	CO2	I, II	05

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