

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)

Branch - COMPUTER SCIENCE

MAJOR ELECTIVE COURSE – I : CYBER SECURITY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which of the following is a type of cyber security? a) Cloud Security b) Network Security c) Application Security d) All of the above	K1	CO1
	2	A cyber-criminal or penetration tester uses the additional data that stores certain special instructions in the memory for activities to break the system in which of the following attack? a) Clickjacking b) Buffer-overflow c) Phishing d) MiTM	K2	CO1
2	3	What type of database is blockchain? a) Centralized relational database b) Decentralized ledger c) Distributed cache d) Hierarchical	K1	CO2
	4	Which of the following is a technique in which a malicious code is inserted into strings that are passed to an SQL query? a) SQL Malware b) SQL Injection c) SQL Hijack d) SQL Trojan	K2	CO2
3	5	Keeping your passwords without meaning makes the _____ attack almost impossible to perform successfully. a) social engineering b) phishing c) password guessing d) brute force	K1	CO3
	6	What is an important security measure to protect a social networking account? a) Keep passwords with relevant names b) Never keep password records c) Use strong, unique passwords that are not easily guessed d) Keep passwords short for easy recall	K2	CO3
4	7	What does E-Commerce stand for? a) Electronic Commerce b) Electronic Communication c) External Commerce d) E-Business Commerce	K1	CO4
	8	Which dimension of e-commerce enables commerce beyond the boundaries of the country? a) Richness b) Interactivity c) Global Reach d) Ubiquity	K2	CO4
5	9	Which of the following is not an appropriate way of targeting a mobile phone for hacking? a) Target mobile hardware vulnerabilities b) Target apps' vulnerabilities c) Setup Keyloggers and spyware in smart-phones d) Snatch the phone	K1	CO5
	10	Hackers cannot do which of the following after compromising your phone? a) Steal your information b) Rob your e-money c) Shoulder surfing d) Spying	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Describe the roles of cyber security roles and responsibilities.	K3	CO1
	(OR)			
	11.b.	Explain the Digital Citizenship with example.		
2	12.a.	How can blockchain technology be applied to address issues of trust and transparency in financial transactions?	K4	CO2
	(OR)			
	12.b.	Analyse SQL injection. Briefly describe the finding of SQL injection with example.		
3	13.a.	Analyze the positive and negative impacts of social media privacy on interpersonal communication.	K4	CO3
	(OR)			
	13.b.	Summarize the opportunities and pitfalls in online social media network.		
4	14.a.	Illustrate the concept of e-commerce and analyze the main components of a e-commerce system.	K5	CO4
	(OR)			
	14.b.	Explain with examples how digital payment modes are applied in daily transactions.		
5	15.a.	Recommend the safe procedure for downloading and management of third party software.	K5	CO5
	(OR)			
	15.b.	Design a device security policy for a mobile devices and covering laptops.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Explain how security and common vulnerabilities can be applied to ensure secure transactions in e-business.	K4	CO1
2	17	Evaluate the exploiting SQL injection and Blind SQL injection with example.	K5	CO2
3	18	Explain the challenges and privacy of the social media with suitable examples.	K4	CO3
4	19	Explain the working principle of USSD with a suitable example.	K4	CO4
5	20	Design a configuration policy and permission of security.	K5	CO5