# PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

#### **BSc DEGREE EXAMINATION MAY 2025**

(Sixth Semester)

### Branch - INFORMATION TECHNOLOGY

## MAJOR ELECTIVE COURSE -II: NETWORK AND SYSTEM SECURITY

	<u>MA</u>	<u>JOR ELECTIVE C</u>	OURSE -11 :	NEI WUKK AND	S1S1EW SECOND
Time: Three Hours					Maximum: 50 Marks
		,,, ,, <b>AL</b> I	Answer AL	A (5 Marks) L questions arry EQUAL marks	$(5 \times 1 = 5)$
1 - 1	(i) (iii	nich key is kept public Encryption keys Decryption keys	(11) (iv)	Private keys	
2	(i) (iii	nich of the following Worm ) Ransomware	(ii) (iv)	Trojan Firewall	
3	W	What is the prevention of access to the database by unauthorized users referred to			
	as? (i) (iii		(ii) (iv	Reliability ) Inconsistency	
4	Wi an (i)	hat must always be ke d different kinds of v	iruses? (ii)	omputer system to p Software Antivirus	rotect it against hackers
5	W on (i)	hat is the term for the line with the intent to cybersecurity i) Transparency	deceive?	onally spreading fals  Disinformation  Hacking	se information or rumors
		AL	Answer A	B (15 Marks) LL Questions Carry EQUAL Mark	$(5 \times 3 = 15)$
6	a	Explain about securi	ty attacks. OR		
	b	Analyze MD5.			
7	a	Explain the targeted	malicious coe OR	ie.	
	b	Show the importance			_
8	a	How can sensitive data be protected from unauthorized access?  OR			
	ь	Explain about multi	level security.		
9	a	Describe the threats	OR		
	b	Bring out the salient features of physical security.			
10	a	Prepare the list of so	OR	es.	
	b	Explain about comp	uter crime.		Cont

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#### SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$ 

11 a Elucidate the various components of computer security.

OR

- b Classify the important features of public key cryptography.
- 12 a Examine the virus and other malicious code.

OR

- b Discover the various file protection mechanisms used to safeguard data.
- 13 a Summarise the essential database security requirements that should be followed to ensure the protection of sensitive data.

OR

- b Justify the need of multilevel database.
- 14 a Analyze the role of a firewall in network security.

OR

- b Identify some organizational security policies for networks.
- 15 a Discuss how to protect programs and data.

OR

b Point out the various ethical issues in computer society.

END

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