PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

MCA DEGREE EXAMINATION MAY 2024

(Third Semester)

Branch - COMPUTER APPLICATIONS

MAJOR ELECTIVE COURSE - II: SOFTWARE SECURITY

Γime: '	Three Hours		Ma	ximum: 50 Mark
	SECTION-A (S Answer ALL of ALL questions carry	questions		$(5 \times 1 = 5)$
	How many arguments does the at() function a) 0 b) 1	ion take?	d)	2
2.	In C++, dynamic memory allocation is do		rator	
3. V	Which of the following is called as protoc	E. C. Commission	v.god	
	Which one of these is a response to positive by Acceptance			Transfer
a	Which of the following is the best approach Black box testing b) Wi	h to conducting a p		ration test?
SECTION - B (15 Marks) Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)				
 a. Explain about Common string manipulation Errors. (OR) b. Write an object size checking with an Example. 				
'. a.	a. Define Modifying the Instruction pointer with Example program. (OR)			
b.	Write about C++ Dynamic Memory Management with suitable syntax.			
8. a.	Explain HTTP methods and its Descript (OR)	ion.		
b.	Describe the HTTP server response code	e.		
9. a.	Write about Modern risk analysis. (OR)			
b.	What are penetration testing and its type	?		
0. a.	Define Building Block of Change in Enterprise Software Security. (OR)			
b.	How to define the list of Abuse Case?			

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11. a. Explain the Signed Integer Typed and Signed Integer Ranges.

(OR)

- b. Discuss about Overwriting Memory with Example program.
- 12. a. Define Global Offset Table. Explain.

(OR)

- b. Discuss about Doug Lea's Memory Allocator with suitable diagram.
- 13. a. Define Keep alive secession in HTTP.

(OR)

- b. Describe the Protocol-Level Encryption.
- 14. a. Explain about proper penetration test.

(OR)

- b. What is a Risk Calculation in software testing.
- 15. a. Write Security testing and its types.

(OR

b. Write about Establishing a Metrics program.

Z-Z-Z END