MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)
MCA II Year II Semester (R18) Supplementary End Semester Examinations –July 2022
CRYPTOGRAPHY & NETWORK SECURITY

Time: 3Hrs
Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.
In Q.no 1 to 5 answer either A or B only

Q.No		Question	Marks	CO	BL
Q.1(A)	i.	Distinguish between diffusion and confusion.	4M	1	2
	ii.	Explain about security services, security attacks and its type.	8M	1	1
		OR			
Q.1(B)		What is substitution technique? Discuss the following with suitable example:			
		i. Caesar Cipher	4M	1	2
		ii. Play fair Cipher	4M	1	2
		iii. Vigenere Cipher	4M	1	2
Q.2(A)	i.	Explain about public key cryptography with neat diagram?	4M	2	1
	ii.	Discuss RSA Algorithm with an example?	8M	2	2
		OR			
Q.2(B)	i.	State Euler's totient function and Euler's theorem and give example?	6M	2	1
	ii.	State Extended Euclidean algorithm with an example?	6M	2	1
Q.3(A)		Classify various Message Authentication function and illustrate the properties of Hash function and MAC.	12M	3	2
		OR			
Q.3(B)		Define message authentication? Explain about Secure Hash Algorithm (SHA-512) process?	12M	3	1
Q.4(A)		What is Kerberos? Explain how it provides authenticated service?	12M	4	2
		OR			
Q.4(B)		Explain briefly about Pretty Good Privacy (PGP)?	12M	4	1
Q.5(A)		Define intrusion detection and discuss about different types of detection mechanisms?	12M	5	1
		OR			
Q.5(B)		Explain Secure Electronic Transaction (SET) with neat diagram?	12M	5	1

*** END***

Hall Ticket No: ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚ Course Code: 18MCAP402

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE
(UGC-AUTONOMOUS)

MCA II Year II Semester (R18) Supplementary End Semester Examinations –July 2022
WEB PROGRAMMING THROUGH PHP

Time: 3Hrs Max Marks: 60

Attempt all the questions. All parts of the question must be answered in one place only.
In Q.no 1 to 5 answer either A or B only

Q.No	Question	Marks	CO	BL
Q.1(A)	(i). Write any five CSS properties with example programs for each property?	6M	1	1
	(ii). Write any five form elements and explain them with example?	6M	1	1
	OR			
Q.1(B)	Explain the looping constructs (while, do..while, for, foreach) with example program and output?	12M	1	2
Q.2(A)	(i). Discuss elaborately: String manipulation functions in PHP	6M	2	1
	(ii). What is meant by Preg_match() and Preg_Replace() functions? Explain with example?	6M	2	1
	OR			
Q.2(B)	Define a function? Explain call by value and call by reference in PHP with example?	12M	2	1
Q.3(A)	(i). Define Object and Classes with example?	4M	3	1
	(ii). Explain the implementation of inheritance with an example Program in PHP?	8M	3	2
	OR			
Q.3(B)	(i). What is meant by exception? Mention its types.	3M	3	1
	(ii). Explain the concept of exception handling in PHP with an example program?	9M	3	2
Q.4(A)	(i). What is a database management system? Give three examples for DBMS?	4M	4	1
	(ii). Discuss the architecture of Web databases in detail?	8M	4	1
	OR			
Q.4(B)	(i)What is Primary key and Foreign Key? Explain different types of joins in detail with example?	12M	4	1
Q.5(A)	(i). Define session and session variables?	3M	5	1
	(ii). Write a program in PHP that creates a session and destroying the sessions?	9M	5	1
	OR			
Q.5(B)	Explain the database connectivity concept in PHP by creating a registration form and post data through the form into the database?	12M	5	2

*** END ***