Hall Ticket No:											Question Paper Code: 16MCA403
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MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA II Year II Semester (R16) Supplementary End Semester Examinations – December 2019 (Regulations: R16)

WEB PROGRAMMING THROUGH PHP

Time: 3	Hrs Max Mai	ks: 50
ļ	Attempt all the questions. All parts of the question must be answered in one place only. In Q.no 1 to 5 answer either Part-A or B only	
Q.1(A)	i) Explain the following in HTML. (a) Paragraph Tags (b) Hyperlinks	10M
	ii) With proper example describe table tag in HTML.	
	OR	
Q.1(B)	Design an HTML code to create a web page containing an application form to input	10M
	your Bio-data.{The bio —data should contain text boxes, radio buttons, submit and reset buttons appropriately}	
Q.2(A)	i) Discuss the different database related functions in PHP.	10M
	ii) What is scope? Discuss passing by value with example.	
	OR	
Q.2(B)	i) What is recursion? Explain implementation of recursion function using PHP with	10M
	example.	
	ii) Write a short note on reusing code.	
Q.3(A)	i) Explain error handling in PHP.	1 0M
	ii) Discuss in detail about inheritance in PHP.	
0.0(0)	OR	
Q.3(B)	i) Write a PHP program to send an Email with attachment.ii) Explain about operations and attributes in PHP.	10M
0.4(1)		10M
Q.4(A)	Explain in detail on database and web data base architecture.	10101
	OR	
Q.4(B)	i) Explain the procedure of designing own web database.	10M
	ii) Write a short note on MySQL identifiers.	
Q.5(A)	i) How to connect to MySQL database using PHP? Explain with syntax.	10M
	ii) Explain implementation of authentication with PHP and MySQL.	
	OR	
Q.5(B)	Discuss about various application techniques in PHP.	10M

*** END***

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(UGC-AUTONOMOUS)

MCA II Year II Semester (R16) Supplementary End Semester Examinations – December 2019 (Regulations: R16)

NETWORK SECURITY ESSENTIALS AND STANDARDS

	NETWORK SECORITY ESSENTIALS AND STANDARDS	
Time:	3Hrs Max M	arks: 50
	Attempt all the questions. All parts of the question must be answered in one place only.	
	In Q.no 1 to 5 answer either Part-A or B only	
Q.1(A)	Write in detail about multilevel model of security.	10M
	OR	
Q.1(B)	i. What are the Types of Attacks and explain each with an example.	5M
* ** #################################	ii. Write about Layers and Cryptography.	5M
Q.2(A)	What is meant by Public Key Cryptography? Explain RSA algorithm in detail.	10M
	OR	
Q.2(B)	Explain in detail with a neat diagram: Diffie-Hellman Key Exchange with an example	10M
Q.3(A)	Write a detailed note on Password Based authentication and Address Based authentication.	10M
	OR	
Q.3(B)	Write short notes on: i. Multiple Trusted Intermediaries	5M
Participant	ii. Delegation	5M
Q.4(A)	Illustrate the following: i. Secure Socket Layer Protocol (SSL) /TLS	5M
	ii. Kerberos Version 4	5M
	OR	
Q.4(B)	Explain How Real Time Communication Security takes place in networks?	10M
Q.5(A)	Explain the protocol MIME in Email Security.	10M
	OR	
Q.5(B)	How would you use different security services for Electronic mail?	10M

*** END***

Hall Tic	ket No:							Questio	n Paper Code: 16MB.	A114
MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE									1 F	
(UGC-AUTONOMOUS)										
MCA II Year II Semester (R16) Supplementary End Semester Examinations – December 2019										2019
(Regulations: R16)										
			OPE	RAT	ONS	RESE	ARCI	4		
Time	: 3Hrs							-	Max Marks	: 50
Attempt all the questions. All parts of the question must be answered in one place only.										
		•	•		•	ither Pa			,	
Q.1(A)	A company se	ls two diff	ferent	produ	cts A a	nd B m	naking	a profit c	of Rs. 40 and Rs. 3 0	10M
	per unit respe	ctively. Th	ey are	both	produc	e with	the h	elp of a c	ommon production	
	•								process has a total	
						-			f A and one hour to	
									ifficials feel that the	
									I that of B is 12,000	
	-			-					ermine the optimal	
	product mix th	at maximi	zes une	2 prom	_	-	caime	ethou.		
/- 1					OR					
Q. 1(B)	Solve the follow	-	y usin	g Simp	lex me	thod				10M
	Max. $Z = 5x_1 + 7$			4 2	0	14 10 .	7	25	ad u u > 0	
0.2(4)	Subject to cons			-			Mark Control of the C		Control of the Contro	4.04.4
Q.2(A)						•	oduct	as snown	below. The matrix	10M
	gives the kilom	eters from	!	T	1	T	מ	C		
			D_1	D_2	D_3	D_4	D_5	Supply		
		S ₁	5	8	6	6	3	8		
		S ₂	8	7	6	6	4	9		
		S₃ Deman	0	4	U	0		3	-	
		d	4	4	5	4	8			
	The shipping of		10 per	load	per kilo	meter	. Wha	t is shippi	ng schedule should	
	be used in orde		-						0	
					OR					
Q.2(B)	What are the o	lifferences	betw	een as	ssignme	ent and	d trans	portation	problems and also	10M
Q.2.(2)	explain the Hur				, s.B				, p. 1000	20
Q.3(A)	Briefly explain		MARKET CONTRACT	MARKANIKA SALAKA SAR	CLASSES THE DAYS BY MINISTERS			***************************************		*************************
Z.5 ()	(i) Payoff matri		_		um gar	ne (iii)	Saddle	e point		10M
	(iv) maximini ar				0	,				
					OR					
Q.3(B)	Determine a se	equence of	f the i	obs th		imizes	the to	otal elanso	ed time required to	10M
~-\-/	complete all jol	•	-							

Job

 M_1

 M_2

 M_3

Q.4(A) What is Simulation? Explain the types of simulation used in OR with examples.

10M

OF

Q.4(B) The following mortality rates have been observed for a certain type of fuse:

10M

Week	1	2	3	4	5
% fail by the end of the	5	15	35	57	100

There are 1000 fuses in use and it costs Rs 5 to replace an individual fuse. If all fuses were replaced simultaneously it would cost Rs 1.25 per fuse. It is proposed to replace all fuses at fixed intervals of time, whether or not they have burnt out, and to continue replacing burnt out fuses as they fail. At what time intervals should the group replacement be made? Also prove that this optimum policy is superior to the straight forward policy of replacing each fuse only when it fails.

Q.5(A) Consider the following details of a project,

10M

10M

		Duration							
Activity	Predecessor	Ontimistic	Most	Pessimisti					
		Optimistic	likely	С					
Α		6	7	8					
В		1	2	9					
C	_	1	4	7					
D	Α	1	2	3					
E	A, B	1	2	9					
F	С	1	5	9					
G	C	2	2	8					
н	E, F	4	4	4					
1	E, F	4	4	10					
J	D, H	2	5	14					
K	l, G	2	2	8					

(i) Construct the network, (ii) determine the critical path and expected project completion time and (iii) find the probability of completing the project on or before 25 weeks.

OR

- Q.5(B) Workers come to a tool store room to enquire about the special tools required by them. The average time between the arrivals is 60 seconds and the arrivals are distributed in Poisson fashion. The average service time is 40 seconds. Determine
 - (i) Average queue length.
 - (ii) Average length of non-empty queue.
 - (iii) Average number of workers in the system including the workers being attended.
 - (iv) Mean waiting time of an arrival.

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