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

MCA I Year I Semester Regular End Semester Examinations Feb/ Mar- 2015

INTRODUCTION TO COMPUTING

Time: 3Hrs Note: 1. Attempt all the questions. 2. In Q.no 1 to 5 answer either I or II only.			
Explain different units of a computer and write the characteristics of a comp	uter? 12m		
OR			
How do you represent characters in computers? Explain hexadecimal representation of numbers with suitable examples?	12m		
What is memory cell? Describe various physical devices used to construct memories.	12m		
OR			
Describe the structure of instructions and write about instruction set.	12m		
Explain the following a. Processor features b. Virtual memory OR	6m 6m		
Briefly discuss about various programming languages.	12m		
Define operating system? Write about various functions of operating system	n. 12m		
OR			
Describe various generations of computers.	12m		
What is LAN? Explain how it works and write about LAN technologies.	12m		
OR Explain the following a. World Wide Web b. Cyber Crime	6m 6m		
	1. Attempt all the questions. 2. In Q.no 1 to 5 answer either I or II only. Explain different units of a computer and write the characteristics of a comp OR How do you represent characters in computers? Explain hexadecimal representation of numbers with suitable examples? What is memory cell? Describe various physical devices used to construct memories. OR Describe the structure of instructions and write about instruction set. Explain the following a. Processor features b. Virtual memory OR Briefly discuss about various programming languages. Define operating system? Write about various functions of operating system OR Describe various generations of computers. What is LAN? Explain how it works and write about LAN technologies. OR Explain the following a. World Wide Web		

Course Code: 14MCA11T02

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ENGLISH FOR COMMUNICATION

	Attempt	Max Mark all the questions. 1 to 5 answer either I or II only.	ks: 60
Q.1(I)	a. Fill i. ii. iii. iv. v. vi.	in the blanks with appropriate preposition/ article /verb form. English (speak) all over the world. This is best of all options. Raju (complete) the project report just now. Gold is precious metal. John (do) the work since 2009. Brainstorming is a good tool find suitable answer.	6m
	h. Cor	rect the following sentences and rewrite.	6m
	vii. viii. ix. x. xi. xii.	I did not find no one in the office on Sunday. Our principal asked all the staff members to attend to the meeting. The number of students present today are very less. The students sat under the shade of a tree. Beside his salary, he gets tutorial amount also. I look forward to meet him.	
		OR	
Q.1(II)		in the blanks with appropriate word by choosing either of the two rds given in the brackets. There will be new (curb/kerb) on drink-driving from next week. She is very good at keeping (peace/ piece) in the family. You should pull both (reigns/ reins) to stop or slow a horse. The (fir /fur) trees on the mountain were covered in snow. The girl carefully pulled up the weed by its (roots/routes). Ravi painted on the (canvas/ canvass) given to him.	бт
52	b. Wrivii. viii. ix. x. xi. xii.	te a sentence for each of the following idioms/ phrases. Keep one's fingers crossed. Kick the bucket. Cut both ways. A stumbling block. Bear the brunt. Apple of one's eye.	6m

Q.2(I)	What is the purpose of professional communication? Explain with suitable examples.	12m
	OR	
Q.2(II)	What are the seven C's of effective communication?	12m
Q.3(I)	Write short notes on:	
	a. Non-verbal communication.	6m
	b. Barriers to communication.	6m
	OR	
Q.3(II)	The five factors that influence fluency and self-expression are articulation,	12m
	pronunciation, voice quality, accent and intonation. Explain.	
Q.4(I)	Why is systematic planning important for making an effective presentation?	12m
	What are the essential elements in the Introduction, Body and Conclusion of oral presentation?	
	OR	
Q.4(II)	What is the difference between formal and informal interviews? What are the characteristics being tested by the interviewer?	12m
Q.5(I)	Write a letter of application for the post of Software Engineer in Cognizant Technologies, Hyderabad. Enclose your Resume.	12m
	OR	
Q.5(II)	Write a report on the Technical Event conducted in your department.	12m

*** End***

Course Code: 14MCA11T03

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

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PROGRAMMING TO PYTHON

Time			ax Marks: 60
Note: 1. Attempt all the questions. 2. In Q.no 1 to 5 answer either I or II only.			
Q.1(I)	a) Find	d the value of X in the following: i) 123203 ₄ =X ₁₆ ii) 1022102 ₃ =X ₉	6m
	b) Drav	w the block diagram of a computer and explain the function of each block	ck. 6m
Q.1(II)	a) Drav	$\overline{\mathbf{OR}}$ w the flowchart for reading 2 numbers and printing the GCD of the 2 nu	mbers. 6m
	b) Drav	w the flowchart for printing the biggest of 3 numbers read.	6m
Q.2(I)	•	te a Python recursive function firstDigit(n) that returns the first digit of tument.	he 6m
	b) Writ	te in detail on String operations and functions in Python.	6m
		OR	
Q.2(II)	a) Writ	te in detail on functions and modules in Python.	6m
	b) Writ	te a Python recursive function that sorts all letters in a string and return i	t. 6m
Q.3(I)	mult	te a program that adds all numbers from 2 to 10,000 to a list. Then remotiples of 2 (but not 2), multiples of 3 (but not 3), and so on, up to the mu 00. Print the remaining values.	
	-	te a program that asks the user for a file name and prints the number of acters, words, and lines in that file.	6m
		OR	
Q.3II)	you	te a function that reverses the sequence of elements in a list. For example call the function with the list 1 4 9 16 9 7 4 9 11; then the list is changed 9 4 7 9 16 9 4 1	•
		te a program that reads each line in a file, reverses its lines, and writes ther file.	nem to 6m
Q.4(I)	Write in deta	ail on event handling and Exception handling in Python language.	12m
		OR	
Q.4(II)	Write a Pyth	on program to build a date class to implement a date functionality.	12m
Q.5(I)	Write a Pyth	on program to implement stack using Python lists.	12m
		OR	
Q.5(II)	Write a Pyth	on program to evaluate a postfix expression.	12m

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COMPUTER ORGANIZATION

		ax Marks: 60	
Note: 1. Attempt all the questions. 2. In Q.no 1 to 5 answer either I or II only.			
Q.1(I)	a. Discuss basic functional units of a computer.b. What are the arithmetic operations performed on floating point numbers? Explain with example.	6m 6m	
	OR		
Q.1(II)	a. With a neat diagram, explain the structure of a bus.b. Explain Karnaugh map simplification with example.	6m 6m	
Q.2(I)	Explain basic five addressing modes with suitable examples.	12m	
	OR		
Q.2(II)	a. Describe the fields in instruction formats.b. Differentiate between Hardwired control and Micro programmed control.	6m 6m	
Q.3(I)	What is a data hazard? Illustrate with an example. How can you mitigate data hazards explain with example?	12m	
	OR		
Q.3II)	How can you mitigate the instruction hazards? Explain.	12m	
Q.4(I)	a. Discuss RAID levels in detail.b. Give a note on memory interleaving.	6m 6m	
	OR		
Q.4(II)	List and explain various Read-only memories.	12m	
Q.5(I)	Explain the two types of buses.	12m	
OR			
Q.5(II)	Give a note on PCI bus and USB.	12m	

*** End***