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

MCA I Year I Semester (R16) Supplementary End Semester Examinations – January 2020
(Regulations: R16)

ENGLISH FOR COMMUNICATION

Time: 3Hrs   Max Marks: 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)	What are idiomatic sentences? Write 10 sentences by using different idioms.	10M
	OR	
Q.1(B)	What is the use of prepositions? Write 5 prepositions with their usage.5M	10M
	What are Word Roots? Write their usage with examples.5M	
Q.2(A)	What is Body Language? Give examples on the purpose of better Body Language in one's Professional Career.	10M
	OR	
Q.2(B)	"Communication is a two way process of exchanging ideas or information between two human beings". Explain this statement with the help of a diagram.	10M
Q.3(A)	How can good listening habits be developed? 5M	10M
	What are the Jargons of speech? 5M	
	OR	
Q.3(B)	"The speaking and public presentation skills are primary requirements for a successful leader". Discuss the statement.	10M
Q.4(A)	Mention the Pre Interview and Post Interview strategies.	10M
	OR	
Q.4(B)	What are the prerequisites of effective presentations?	10M
Q.5(A)	Write an e-mail to the Principal Secretary of Higher education, A.P on the need of Students' Skill Development centers across Andhra Pradesh.	10M
Q.5(B)	Write a letter to the Chairman, Andhra Pradesh state Technical Education Council, to introduce the new courses like Artificial Intelligence, Machine Learning and Black Chain Technology in the new Curriculum.	10M

*** END***

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INTRODUCTION TO COMPUTING

Time: 3Hrs   Max Marks: 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)	Draw the block diagram of a computer. Explain the function of each of the block along with its characteristics.	10M
	OR	
Q.1(B)	How to solve a problem using a computer? Explain with an example.	10M
Q.2(A)	Explain about various physical devices used to construct Memories in detail.	10M
	OR	
Q.2(B)	Explain the following in brief i) Structure of an Instruction. ii) Machine Language.	5M*2= 10M
Q.3(A)	Describe how data is read from I/O Units to Main Memory and written from Main Memory I/O Units in brief	10M
	OR	
Q.3(B)	Outline the following in breif i) Interrupt Structure. ii) Software Qualities.	5M*2= 10M
Q.4(A)	Explain Various Data Models for DBMS in brief.	10M
	OR	
Q.4(B)	Why Multi tasking ? Explain main functions of OS Multitasking in detail.	10M
Q.5(A)	Explain about LAN Technologies and how LAN Works.	10M
	OR	
Q.5(B)	Write a note on the following in brief. i) TCP/IP ii) World Wide Web(WWW)	5M*2= 10M

*** END***

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PROGRAMMING IN C

Time: 3Hrs   Max Marks: 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)	i. Define flow chart? Explain its symbols.	5M
	ii. Write and algorithm and draw the flow chart to find the bigger of two numbers.	5M
	OR	
Q.1(B)	i. Write the structure of the C program and Explain.	5M
	ii. Write an algorithm and draw the flow chart to find the sum of the digits of the given integer.	5M
Q.2(A)	Define Operator? Explain different types of operators in C.	10M
	OR	
Q.2(B)	Explain different types of I/O functions in C.	10M
Q.3(A)	Write about different types of control statements in C.	10M
	OR	
Q.3(B)	i. Explain about switch statement.	5M
	ii. Write a program which takes two integer operands and one operator from the user, performs the operations and print the result.	5M
Q.4(A)	Discuss about different types of storage classes in C.	10M
	OR	
Q.4(B)	i. What is array? How to pass single dimensional array as a function argument?	5M
	ii. Write a program to find the product of two matrices using functions.	5M
Q.5(A)	Define Structure, How to define and declare a structure? Illustrate with an example Program?	10M
	OR	
Q.5(B)	i. Explain about different types of files.	5M
	ii. Write a C Program to reverse the first n characters in a file.	5M

*** END***

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COMPUTER ORGANIZATION

Time: 3Hrs   Max Marks: 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)	With the help of neat diagram, explain the basic structure of a digital computer.	10M

OR

Q.1(B)	i) An encoder performs the inverse operation of a decoder." Explain.	5M
	ii) What is the functional difference between a NAND gate and a negative-OR gate? Do they both have the same truth table?	5M

Q.2(A)	List and explain the characteristics of CISC and RISC	10M

OR

Q.2(B)	What is register? Explain the different types of registers.	10M

Q.3(A)	With the help of neat diagram, explain the bus architecture.	10M

OR

Q.3(B)	Explain the following:	10M
	i) Instruction format	
	ii) hand shaking	

Q.4(A)	The access time of a cache memory is 100 ns and that of main memory is 1000 ns. It is estimated that 80% of the memory requests are for read and the remaining 20% are for write. The hit ratio for read accesses only is 0.9. A write-through procedure is used. (i). What is the average access time of the system considering only memory read cycles? (ii). What is the average access time of the system for both read and write requests?	10M

OR

Q.4(B)	Distinguish between the virtual memory and cache memory. Write the merits and demerits of virtual memory.	10M

Q.5(A)	Why are the read and write control lines in a DMA controller bidirectional? Under what condition and for what purpose are they are they used as inputs? Under what condition and for what purpose are they are they used as outputs?	10M

OR

Q.5(B)	What is interface? Explain the different types of interfaces with examples.	10M

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