Hall Ticket No: | | | | | | | | | | | Question Paper Code: 16ENG104

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA I Year I Semester (R16) Regular End Semester Examinations – Jan 2017

(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)	Write about your daily activities using Simple Present tense.	10M
	OR	
Q.1(B)	Write down any five rules of Subject - Verb agreement.	10M
Q.2(A)	Explain in detail the types of Communication.	10M
	OR	
Q.2(B)	Write an explanatory note on Verbal and Non- Verbal communication?	10M
Q.3(A)	Discuss different types of Listening Skills.	10M
	OR	
Q.3(B)	What are the different methods of reading?	10M
Q.4(A)	Discuss various aspects of preparation for facing an interview?	10M
	OR	
Q.4(B)	Explain how to plan and prepare an effective presentation.	10M
Q.5(A)	Write an email to your Principal about an Industry Visit you had recently.	10M
	OR	
Q.5(B)	Explain the features of a Technical Report.	10M

*** END***

Hall Ticket No: | | | | | | | | | | |

Question Paper Code: 16MCA101

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA I Year I Semester (R16) Regular End Semester Examinations – Jan 2017

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)	What is a computer? With the help of block diagram, explain.	10M
	OR	
Q.1(B)	Explain various Number Systems? In detail?	10M
Q.2(A)	What is a memory? Explain various types of memories?	10M
	OR	
Q.2(B)	In detail explain the Instruction set?	10M
Q.3(A)	What is an Interrupt, Explain various types of Interrupts?	10M
	OR	
Q.3(B)	Write about RISC?	10M
Q.4(A)	(i) In detail Explain about Operating systems? (ii) Write short notes on Database?	10M
	OR	
Q.4(B)	In detail explain the generations of computers?	10M
Q.5(A)	What is a networking? Explain the Layers of OSI Model?	10M
	OR	
Q.5(B)	Write about Cyber Law and Cyber Act?	10M

***** END*****

Hall Ticket No: | | | | | | | | | | |

Question Paper Code: 16MCA102

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA I Year I Semester (R16) Regular End Semester Examinations – Jan 2017

(Regulations: R16)

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. Draw the flowchart for finding a biggest number from the three numbers ii. Write the pseudo code and algorithm for finding whether the given number is EVEN or ODD	10M
	OR	
Q.1(B)	Discuss the different data types available in C. Differentiate between primary and secondary data types in C language using suitable examples.	10M
Q.2(A)	What are the various operators available in C? Discuss each one of them with suitable illustrations	10M
	OR	
Q.2(B)	i. Explain formatted and unformatted input/output structures with suitable examples ii. Define preprocessor directive? Write a macro for finding biggest of two numbers	10M
Q.3(A)	i. Write in detail about the various looping structures with suitable flow diagrams? ii. Write a program to find whether a given number is prime or not?	10M
	OR	
Q.3(B)	Write a program to find whether given number is Am-strong number or not?(Note: assume the number n=153, the cubes of the each digit's sum equal to the same number ie., $1^3+5^3+3^3=1+125+27=153$ then the number is called Am-strong number)	10M
Q.4(A)	i. Define scope, life time of a variable? Write different storage classes available in C? ii. Write C function for two swap two numbers using call by reference.	10M
	OR	
Q.4(B)	i. How are one-dimensional and two-dimensional arrays stored in computer memory? Illustrate with an example ii. Write in detail about pointer arithmetic. Support your answer with appropriate examples	10M
Q.5(A)	Give the main advantage of storing data as a file. Describe various ways in which data files can be categorized in 'C'. Illustrate by examples.	10M
	OR	
Q.5(B)	What is a structure? How does a structure differ from a union? Give examples. For what kind of applications, union data structure is useful? How are arrays different from structure?	10M

*** END***

Hall Ticket No: | | | | | | | | | | |

Question Paper Code: 16MCA103

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA I Year I Semester (R16) Regular End Semester Examinations – Jan 2017

(Regulations: R16)

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)	Explain the following i. Half adder ii. Full adder	10M
	OR	
Q.1(B)	What are the two ways to represent a real numbers? Explain in detail about the Floating point number system with IEEE754 representation.	10M
Q.2(A)	Explain in detail about the Multiplication and Division circuit	10M
	OR	
Q.2(B)	Explain the following i. Control path- Microprogramming ii. Hardware Logic	10M
Q.3(A)	What is Addressing mode? Explain the different addressing modes available with an example.	10M
	OR	
Q.3(B)	Define BUS? Explain in detail about different types of BUS architecture.	10M
Q.4(A)	Explain the various mapping functions used for mapping main memory blocks into cache memory.	10M
	OR	
Q.4(B)	What is semiconductor memory? Explain how the semiconductor memory stores the data.	10M
Q.5(A)	What is DMA? Explain how it is interacting with memory with neat diagram.	10M
	OR	
Q.5(B)	Explain the use of PCI bus in a computer in detail.	10M

***** END*****