

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

**MCA I Year I Semester (R14) Regular &
Supplementary End Semester Examinations – Dec/Jan- 2015-16**
(Regulations: R14)

INTRODUCTION TO COMPUTING

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 I or II only

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|-----------|---|-----|
| Q.1(I) | a. Define computer. Explain the classification of computers. | 6M |
| | b. Define Input and Output devices. Explain the various input and output devices. | 6M |
| OR | | |
| Q.1(II) | What is the meaning of computer generation? Explain the properties of computers of various generations. | 12M |
| <hr/> | | |
| Q.2(I) | What do you mean by operating system? Explain the different functions (responsibilities) of the operating system. | 12M |
| OR | | |
| Q.2(II) | Write a note on the followings:
a. Computing Environments
b. Computer System architecture | 12M |
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| Q.3(I) | Define Heuristics. Explain the procedure to solve a problem using heuristics. | 12M |
| OR | | |
| Q.3(II) | What do you mean by programming languages? With an example the features of an high level languages. | 12M |
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| Q.4(I) | What do you mean by network? Explain the different types and uses of network. | 12M |
| OR | | |
| Q.4(II) | Write a note on the followings:
a. Computer Viruses
b. Fast Ethernet and Gigabit Ethernet. | 12M |
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| Q.5(I) | Write a detail note on presentation software. | 12M |
| OR | | |
| Q.5(II) | How to install and compile LaTeX? Explain | 12M |

*** END***

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ENGLISH FOR COMMUNICATION

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 I or II only

- Q.1(I) a) Fill in the blanks with appropriate preposition/ articles/ verb forms 6M
- i) They constructed _____ house.
 - ii) We went _____ foot to Tirumala.
 - iii) The Earth _____ (move) round the sun.
 - iv) Please keep this book _____ the table.
 - v) I have _____ umbrella.
 - vi) Don't be late for _____ school.

- b) Correct the following sentences and rewrite. 6M
- i) They were talking at each other.
 - ii) One of my friends are coming today.
 - iii) If I went to Bombay, I will meet your brother.
 - iv) The news is much surprising.
 - v) She is a real good singer.
 - vi) I know that she is speaking lies.

OR

- Q.1(II) a) Fill in the blank with appropriate word by choosing either of the two words given in the brackets. 12M
- i) Lata is _____ (sick/ill) of hard work.
 - ii) He saw _____ (to / through) his enemy's plan.
 - iii) He _____ (reminds / recollects) of a man whom I know.
 - iv) I _____ (decline / refuse) to join the company.
 - v) The car remained _____ (stationary / stationery) with the engine running.
 - vi) In her (ignorance / innocence) _____ she followed the wrong course.
- b) Write a sentence for each of the following idioms/ phrases.
- i) Bell the cat
 - ii) Break the ice
 - iii) sit on the fence
 - iv) Hit the nail on the head
 - v) Cock and bull stories
 - vi) Apple of one's eyes

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- Q.2(I) Describe the advantages and limitations of written communication. 12M

OR

- Q.2(II) Explain the terms (a) Upward Communication 4M
(b) Downward Communication 4M
(c) Horizontal Communication 4M
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Q.3(I) What is communication? Write objectives and types of communication. 12M

OR

Q.3(II) Define Technical proposals. Write about types of proposals? 12M

Q.4(I) What are the factors that contribute to effective oral presentation? Explain. 12M

OR

Q.4(II) What are communication barriers? What are the major types of barriers affecting communication? 12M

Q.5(I) Imagine you're the Medical Officer of your town, you are asked to submit a report on Dengue fever victims and measures to eradicate it. 12M

OR

Q.5(II) Write a letter to the publishers about the delay in dispatching the books ordered by you. 12M

***** END*****

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PROGRAMMING TO PYTHON

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 I or II only

- Q.1(I) Explain software Development Life Cycle. 12M
- OR**
- Q.1(II) List the symbols of Flowchart and Give detail description of each symbol with example 12M
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- Q.2(I) a) Differentiate interactive mode and Script mode. 12M
b) Write a program to print sum of 'n' numbers.
- OR**
- Q.2(II) Explain various conditional statements with examples. 12M
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- Q.3(I) a) Explain different loop statements with examples. 12M
b) Write a program to find whether a given string palindrome or not
- OR**
- Q.3(II) Define persistence. How to read and write a file? Explain with example. 12M
-
- Q.4(I) a) Explain init method and str method with example each. 12M
b) What is overloading? Explain with an example.
- OR**
- Q.4(II) Explain about event handling. Write a program to mouse event. 12M
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- Q.5(I) List the operations of stack and explain with an algorithm 12M
- OR**
- Q.5(II) a) Write short notes on Queues? 12M
b) What is abstract data type explain with an example.

***** END*****

Hall Ticket No:

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Course Code: 14MCA11T04/14MCA103

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MCA I Year I Semester (R14) Regular &
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COMPUTER ORGANIZATION

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 I or II only

- Q.1(I) Simplify the given Boolean function into
- a) Sum of Product form 6M
 - b) Product of sum form and implement if using basic gates 6M
- $F(A,B,C,D) = \sum (0,1,2,5,8,9,10)$
- OR**
- Q.1(II) Design a combinational circuit that converts 4 bit Gray code to a 4 bit binary number. 12M
Implement the circuit
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- Q.2(I) Explain the different type of addressing modes with an example. 12M
- OR**
- Q.2(II) a) Compare the RISC and CISC in detail. 6M
b) Compare and Contrast Micro Programming and Hardwired control. 6M
-
- Q.3(I) a) What is an instruction pipeline? Describe the organization of a four stage pipeline with the help of a diagram. 10M
b) Define pipeline speedup and efficiency. 02M
- OR**
- Q.3(II) a) Write note on exception handling. 04M
b) Describe any two techniques of data dependencies in pipelined computers. 08M
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- Q.4(I) a) Compare Static RAM and Dynamic RAM. 04M
b) Explain the various mapping techniques associated with cache memories 08M
- OR**
- Q.4(II) Describe in detail about magnetic tape memories and disk memories. 12M
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- Q.5(I) Define Plug & Play and explain SCSI in detail. 12M
- OR**
- Q.5(II) Explain the working of Universal Serial Bus (USB) Interface. 12M

*** END***

