

Hall Ticket No:

Question Paper Code: 18MCAP101

MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA I Year I Semester (R18) Supplementary End Semester Examinations – June 2019

(Regulations: R18)

COMPUTER ORGANIZATION AND ARCHITECTURE

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 Part-A or B only

- Q.1(A) i) Discuss about r's complement and (r-1)'s complement with examples. 8M
ii) Distinguish between fixed point representation and floating point representation. 4M

OR

- Q.1(B) Write short on the following: 12M
i) Multiplexers ii) Encoders iii) Decoders iv) Registers

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- Q.2(A) Explain the different instruction formats with suitable examples. 12M

OR

- Q.2(B) i) What is hardwired control? Discuss its advantages and disadvantages. 6M
ii) Justify how Hardwired control unit is faster than micro-programmed control unit. 6M

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- Q.3(A) What are the hazards in pipeline architecture? Explain its types. 12M

OR

- Q.3(B) Discuss about exception handling. 12M

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- Q.4(A) What is the need for memory in computers? Discuss different types of memories. 12M

OR

- Q.4(B) Draw and explain about the virtual memory organization. 12M

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- Q.5(A) Define interrupt? What are the types of interrupts? Explain all briefly. 12M

OR

- Q.5(B) What are the different types of bus interfaces? Explain in detail USB bus organization. 12M

*** END***

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PROBLEM SOLVING WITH 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 Part-A or B only

- Q.1(A) What are the problem solving aspects? Explain each in detail. 12M
- OR
- Q.1(B) Discuss algorithm with a suitable example. 6M
Compare program debugging and program testing. 6M
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- Q.2(A) What are the main features of python? Explain in detail. 12M
- OR
- Q.2(B) Define arithmetic operator and logical operator. 6M
Write short notes on input() and eval() functions. 6M
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- Q.3(A) List out the basic functions of string with explanation. 4M
What is selection statement? Explain each in detail. 8M
- OR
- Q.3(B) State the role of function in the program. 4M
What a factorial program using recursion. 8M
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- Q.4(A) Write a program to print all odd numbers of a given list. 6M
List out the basic functions of tuple. Explain them. 6M
- OR
- Q.4(B) Differentiate between string and list. 6M
What is dictionary in python? Explain with an example. 6M
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- Q.5(A) What is modular programming? List out the advantages of modular programming. 12M
- OR
- Q.5(B) What are the modes to open a file? Explain each with examples. 12M

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