

Hall Ticket No:

Question Paper Code: 16MCA103

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

MCA I Year I Semester (R16) Supplementary End Semester Examinations – September 2021
(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 different logic gates with their truth tables and logical circuits 10M

OR

Q.1(B) What is number system? Explain fixed point and floating point operations with examples 10M

Q.2(A) Draw 4-bit carry-look ahead adder and explain? 10M

OR

Q.2(B) Perform multiplication for -13 and +09 using Booth's algorithm. 10M

Q.3(A) What is Addressing Mode? Explain briefly with examples. 10M

OR

Q.3(B) What is stack? Explain its role in subroutine nesting? 10M

Q.4(A) What is memory explain the memory organization influence the system performance. 10M

OR

Q.4(B) What is volatile and nonvolatile? Explain briefly the functionalities of SRAM and DRAM. 10M

Q.5(A) What is DMA? Explain the advantages of DMA. 10M

OR

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

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