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SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)

MCA I Year II Semester Regular Examinations October-2020
SYSTEM SOFTWARE

Time: 3 hours

Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

- 1 a Explain SIC Machine Architecture in detail. 6M
b Explain various features in VAX Architecture. 6M

OR

- 2 a Explain about CrayT3E Architecture. 6M
b Explain various features of Machine – Dependent Assembler. 6M

UNIT-II

- 3 a Explain basic functions of a Loader. 6M
b What are the algorithms and data structures for a linking? 6M

OR

- 4 a Explain with example about Macro Definition and Expansion. 6M
b Explain in detail about Macro Processor design options. 6M

UNIT-III

- 5 a Explain about Lexical Analysis with examples. 6M
b Explain about Code Generation with examples. 6M

OR

- 6 a What are the features of Machine Dependent Compiler? 4M
b What is a Text Editor? Explain editor structure. 8M

UNIT-IV

- 7 a What is a Device Driver? Explain various types of devices. 8M
b Explain in detail about character driver I. 4M

OR

- 8 a List out and discuss various design issues and driver of a Block Test Data Generator. 6M
b Explain Block Drivers I in details. 6M

UNIT-V

- 9 a Explain in detail about LINUX. 6M
b Explain about shell scripting in detail. 6M

OR

- 10 a Explain various shell programming. With examples. 6M
b Explain about Arrays and Operator concepts in shell programming with examples. 6M

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