

No Preview
Available

Total No. of Question : [4]

Registration No. :

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Programme Name : Computer Science & Engineering(AI ML)
Regular T.Y.B.Tech. ESE (A.Y. 2023-24) Sem.V Nov.2023
V SEMESTER (2021 BATCH)
201AIMLL301-System Programing and Compilers(TH)

Duration : [11:00 AM - 01:00 PM]

Date : 20 Nov, 2023

Day : Monday

Marks : 50

Instructions :

(Q1) All Questions are compulsory [20.0]

(1.1) Define System programming, Difference between Application program and System Program. [6.0]

CO :- C301.1
Blooms Taxonomy :- Understand

(1.2) Write a short note on Advanced Assembler Directives. I)ORIGIN, II) EQU, III)LTORG [7.0]

CO :- C301.1
Blooms Taxonomy :- Understand

(1.3) Construct the FA accepting the set of all strings ending with 101 where $\Sigma = \{1,0\}$ [7.0]

CO :- C301.2
Blooms Taxonomy :- Remember

(Q2) All Questions are compulsory [10.0]

(2.1) Distinguish between LL parser and LR parser. [6.0]

CO :- C301.3
Blooms Taxonomy :- Understand, Apply

OR [2.1 / 2.2]

(2.2) Explain Top down parsing (Recursive Decent parsing) with example. [6.0]

CO :- C301.3
Blooms Taxonomy :- Understand, Apply

(2.3) Find FIRST and FOLLOW sets for the following grammar. [4.0]

$S \rightarrow iEtSS^* | a$
 $S^* \rightarrow eS | \wedge$
 $E \rightarrow b$

CO :- C301.3

Blooms Taxonomy :- Understand, Apply

(Q3) All Questions are compulsory

[10.0]

(3.1) What is syntax directed translation explain with advantages and disadvantages.

[5.0]

CO :- C301.4

Blooms Taxonomy :- Understand

OR [3.1 / 3.2]

(3.2) Explain back patching in detail.

[5.0]

CO :- C301.4

Blooms Taxonomy :- Understand

(3.3) Explain L-attributed definition with example

[5.0]

CO :- C301.4

Blooms Taxonomy :- Understand

(Q4) All Questions are compulsory

[10.0]

(4.1) Explain optimization of basic blocks

[5.0]

CO :- C301.5

Blooms Taxonomy :- Understand

OR [4.1 / 4.2]

(4.2) Distinguish between PRAM and MESH.

[5.0]

CO :- C301.5

Blooms Taxonomy :- Understand

(4.3) Explain peephole Optimization in brief.

[5.0]

CO :- C301.5

Blooms Taxonomy :- Understand
