SP-256

Seat No.	

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T.Y. B.Tech. (Computer Science and Engineering)
(Part - III) (Semester - V) (CBCS) Examination, November - 2023
SYSTEM PROGRAMMING
Sub. Code : 80795

Day and Date : Thursday, 30 - 11 - 2023 **Total Marks : 70**

Time : 10.30 a.m. to 01.00 p.m.

Instructions : **1)** **All Questions are compulsory.**
2) **Assume suitable data wherever necessary.**

Q1) Solve MCQs (2 Marks Each)

a) Specification Gap is gap between _____ and _____.

i) Application Domain and Execution Domain

ii) Application Domain and PL Domain

iii) PL Domain and Execution Domain

iv) PL Domain and CL Domain

b) Opcode of MOVER is _____.

i) 00 ii) 02

iii) 04 iv) 03

c) MACRO is Enclosed between _____.

i) START and END statement.

ii) MACRO header and MEND Statement

iii) MOVER and MOVEM

iv) None of these

d) PNTAB contains _____.

i) Values of actual parameter ii) Names of actual parameter

iii) Values of formal parameter iv) Names of formal parameter

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P.T.O.

e) Example for Re-Locatable programs is/are _____

i) All the object modules

ii) All the high-level language programs

iii) Hand-Coded Machine instructions

iv) All the above

f) If Link origin ≠Load origin, then Loader_____

i) Performs relocation and loads the program into main memory

ii) Performs relocation but do not load the program into main memory

iii) Do not perform relocation but loads the program into main memory

iv) None of these

g) TOS=ARB-1

ARB=ARB*

Above Actions are used

i) To Access Nonlocal variables

ii) During Block entry into the Stack

iii) During Block exit from the stack

iv) All of the above

Q2) Solve any 2 of the following. (7 Marks Each)

a) Explain Fundamentals of language specification

b) Discuss classification of grammars

c) Give an algorithm for Pass-I of two pass assembler.

Q3) Solve any 2 of the following. (7 Marks Each)

a) Explain two models of program execution.

b) Explain advanced macro facilities in details.

c) What is nested macro call? Explain with an example.

Q4) Solve any 2 of the following. (7 Marks Each)

a) What is assembler? Explain elements of assembly language

b) What is interpreter? Explain pure and impure interpreter in detail.

c) What is Editor? Explain Structure of Editor with suitable Diagram

Q5) Solve any 2 of the following. (7 Marks Each)

a) Explain Self-relocating program, relocatable program and non-relocatable program.

b) What is object module? Explain components object module with an example.

c) Explain Types of editors with an example for each editor

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