Detry M Panickes Ap in est Module I 191. System Software Vs Application Software

192. Defluent System Software & their difference.

(Including fundaments) Cp3. Functions of OS 4. (SIC Architecture (Explain) (10 marles). a) Memory. 215 hylin b) Regisler: A, X, L, PC, SW (5) 9 Data formats d) Instruction formats a) Memory 7 220 byla b) Register: A, X, L, B, S, T, F, PC, SW c) Data Romat (floating pt Including) d) Instruction format (4 Types) e) Addressing modes. f) Instruction Set 9) Input and Output. SIC Vs SIC/XE Architecture. 4p 6) (Lesfout & Explain) Assembler Dikuctives - START - END

- BYTE
- RESB - } Amay bare
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Module I

- SIC Programming - SIC/XE Programming. - il Basic Functions of Assembler (5 marks)
- kostovetron reservate
- Assembler output Format / Records - Header Record > Compulsary. - Text Record H 1 COPY 1 0 D1000 1074 - End Record. Eg: -T 100 1000 ---. Assembler Data Structures, E 100100. -> Operation Code Table (OPTAB)

-> Symbol Table (SYMTAB)

-> Location Counter (LOCCTR) - Two Pais Assembles (Compulsary (Qn)
10 martis
10 martis
10 pais 1
10 Pais 1
10 Pais 2
10 Mark) Data
10 Structures. ife - Pars 1 ife Pars 2 (optional). - Hand assembly

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Module 3 Machine Dependent Assembler Features Ly Instruction Format La Addressing Modes La Program Relocation with (fig) 2. Independent Assembler Features Lis Symbol Defining statements bels
Labels
Laboration L. Expressions till absolute Library
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Laboration Laboration Laboration Laboration
Refund
Refun Diogram Blocks: Segments of code that are tonged in the strong of code La Control Sections: Segnuls of code had an translated coster! Segnuls of code had an translated hinting mto Independent objet program Linking Creternal reference. Assembler Design Options JEEXTDEF Ly One Pass Assembler

Load & go assembler,

White Pass Assembler.

MAXIEN/2 no forward Refer completed in part

18 HALFZ EQU Symbol definition must be completed in part

Ly One Pass Assembler

Regulation

Ly Alpha EQU BETA

Ly Alpha EQU DELTA

BETA EQU DELTA

DELTA RESW 1 DELTA RESW 1 UP La MASM Assemble - CODE none - CODE, DATA, CONST, STACK. ASSUME , gump , ---. module 2 Imposfant : forward Reference no A reference to a label that is with Eg. differed defined later in the program. DOWNLOW BEDYROM RTUROTES.IN SEM.

Module 4 Loader & Linker Basic Loader Functions ->

UR La Design of Absolute Loader (4) Je La Simple bootstrap Loader (4) Machine Dependent Loader Features La Relocation 1. Piogram Listurg Algorithm & Data Structures of Two pass Linking Londin Two variables - PROGADDR, CSADDR. Machine Independent Loader Features La Automatic hibrary Search La Loader Options.

INCLUDE DELETE Loader Design Options. CHANGE 1- Linkage Edither (2 figures 1 Dynamic Linking (1/p) (Bootstrap boadu

of Maeroprocessor - Macro Instruction Defenetion & Expansion Compulsary Data structures.

Data structures. 4 NAMTAB LO DEFTAB. Il Machine Independent Mairo processor Fealur - Concatenation of Mano prousur - Generalion of unique Labels - Conditional Marco Expansion - Keyword Macco Parameters. Jevice Drivers - Mano processor Design Options.

— Reculsive Mano Expansion - Very /p

— Reculsive Mano Expansion - Very /p

— Creminal purpose Mano processors

— Creminal purpose Mano processors

[Applied Internal Design Control of The Control o - Anatomy of a device drive 8. - Pats Hardwan lution Voyer character & block device drivers with Egg: - General design of device driven de figure: 1-General dingn. 2. Synchronous De 2. Synchronous Devue Drive 3. Agrichmonous Dence Donce. Text Editors - Overview of Editing 5. Serial Input & ofp Dala. ip-user Interface (4 marke). if Editor Eflucture: : tig with Explanation (8 mark de Debugging Function & Capabilities (4 months) Debuggers - Relationship with other parts of System. Complement Debuggerey Methods 7 Induction - fig. 7 Essay Deduction fig. 7 Deduction fig. 7