CMP 243 STUDY

a la ax society today, digital compiters are used for soo many activities?

I The digital Compiter is made up of? (Name all 3)

chilat is the function of the CPU in the Compiter?

d Draw a diagramatric representation of the CPU?

e State 4 Features of the CPU

f The CPU is made up of three (3) essential (onponents. What we thay?

g State 3 things about the ALU

h hist all Ar. Phonobic & hogical operations

i When ALU operations become more Complex What hoppess?

J What does the CU do in the CPU?

k What are Pregisters

2 Illust are Pregisters? (Como boll Definitions a State 5 Facts about registers 6 State the 3 Types of registers and their 5th parts c Draw the register representation? I list the 4 registers we will be looking at! e lithet 2 registers are used to perform read and write aperations + Thise two registors are used exclusively by --- and are not -I Write the 3 steps of performing a write operation into a specified money local in Simplanty, butile the steps involved in a read operation i bellevet are the linestruction Feteling Registers (2)? State their sub parts? I bellevet is a Memory be computer? k Name 4 Major Storage dévices Una conventional digital Computer, m Draw a Complete menory heirachy n Drom a Memory herarchy With registers removed I be blant exactly is an angineering trade-off! What is belled! P Memory herrachy can be Cheracherized Asho, a number of parameters, Which we! 2 tor a given possit in binne,... T Explain in a line or more: Access, Conjucity, cycle time, Laborey, Bandwille, la 5 Diam the Toble summarizely the Parameters of a mennony he wordly that 4 Features of the Cache v State 4 advantages of the Cache and 2 dis of mobages

V State 4 Features of the Manh Menny w Name the 2 mark types of Mak Memory à List 5 charactoristics of the Man Mennery y List 5 Features of the Secondary Memory 3 List 5 characteristres of the Secondary Storage Draw out the Memory Blocks diagram ii Address Vranslation List 5 in How many bits for each block? I for _ and O for ! Drow alyran? v In Fredshired List, Draw Diagram. Each free block ____ i bellere are postetors stored vii Frace List Array. Crive 2 Altribotes and Draw Diagram viii What are the the two fragmentations and describe in a line of two ix bellet are the 4 picks in Variable sized Allocation

3 What we peripheral Devices?

a What are the 4 taypes of Peripheral Devices and examples for each is What are the 4 Elements of the hyper and broget substystem? chillent are the 4 1/0 service Concepts? d Name and Explain the 3 Components of the Device driver! e Dram Cho Donice Oriver Structure I What we Monitors? and their Types of Display Screens?

g What is the Full Meaning of CPT, who invented it and when, I whom is object. h hibst are the procedures that make a Cht Manstor work? i Draw the CRT Months I bellest one LCO Monibors? Full meaning, Usesen ___. Consists of I Har is aptical Effect achieved and bullint are the types? 1 Draw the LCD Monther display n List 3 advantages and 3 disadvantages of using the LCD a librat are LBD's Manters? Do they use more power? a fullent are printers? Printers can be classified into? 8 belleut is the Difference between each Probler classifications! 2 Exploit What what are the 3 Types of printers! r Explan the Det 19 above Porter and Down one of the porte? s Explant the Inn Let Printer, Stube the bus (2) technologies used? & State 2 advantages and 3 dreadvantages of verly the littlet & Explain the Laser Let Printer

4 What is the INGOT GIROMIH? And the process of making It a Draw the INCROT CRIMOWTH Diagram 6 What or a water? How is the water Surface smoothened? Draw Water Sandy chlast is Libbagraphy! Philoslibbagraphy And Plobolibbagraphy in 10 Structure? d Mhat is the Photorosist? And the role it plays in photolithoggraphy e What are the Process of Exposive in Photolitography! Drum Dingram f Dovologment: The PP is developed using ___ ! Stato Two Possis. Pibros in developed 9 helhat is flre that Streetire? Dian a diagram of this. h Draw the Phobo Lithrography Diagram i What is a the ticle? Dim the Dingian I bllut ale ble MASK Creneralion-repeably stops, Dan Dingram k Fihal 1x Mashis "What is Eboling? What happens he dry and web aboling?"
In What are the bus hiportant issues the Etching? n Han does the hornal oxidation stop work o Oxede forms dre bo. ---PDifferences between wet and Dry oxedentim. State 3 2 billent about Local Oxidation 1 How does the Dopont Diffusion Process 5 lon Implantion t bellent is Dapos, born aund its bepes. v bellet is scribing and clearly? Down A Dingram