Assignment 97 Q1] > Microprocessor: General Purpose Drocessor which contain All u for arthemities logical of tration, Control unit Brollocking oploades, Registers (General purpose 32)
Let Registers 7 Can also include auche Henory I FPU / MMU. MAINI Manory Res Hemory Ship includes Que interdift Controller, PAMY ROM & Per phenals > I/O POITS + o Controller embedded Systems. MCU > CPU - > RAM

Controller > Paphere Electromechanical Systems : Electrical of Electromechanical Systems where it's Controlled by Special Purpose Computer inside it

Mechanical Narchware is chiven by Embedded Systems. note frocessor: processor works on note all data at a time y it's more than n-bit, data is broken into noit pieces of to Q2/ Mioroproconsor Micro Contraller , general Purpose chip - special purpose this sincludes the Mpu+IIO ports, RAM, ROM includes Alu, Orche, Cu Registors ds > designer Cait add anything exister relly to lit more advanted tasks dis & Bulkier X expensive es RAM, Roll, Floports are external addition adv: for apps which cost xsize (space) is critical, Musics
Sitable. designer an add Rory RAMI timens 150 ports to fit the taskashe please.

Q3 Von Deuman Arc. Harvard Arc. I whale menous for both instructions & data. seponate memory for each data, instruction -> 1 bus fordata & > 2 separte buses >1 instructions for RAM, 1 for Rom. s 10 Pipeling, used for our Emputers -> Pipelining: used for-Smaller devices Q4] ROMAYPES: [Readonly Memory ] > PROM & Programable ROM, user burnsingo into, C not example, programmable once, C each bit -> fuse burnt when it's programmed & Mask ROM: the Ic Hanfactures burnings, at it EPROM: et crasable PROM, Can be erased only outside the board by ultraviolet, erased whole clip at once. du te destas la destas estas e Shows in for the state will

Hybridi This miles EFFROM: electrically EPROM, Can be brased electrically on the board, erasing only byte not whate chip, costs more than EPROM. > Flash & electrically erasable, erasing block not byte or whole Chip, it's pragrammed on System board. NVRAM & non volatile RAM
Con be read & written, like SRAM,
hus a backup hiergy Source, where
if power's cit, the catents aren't
lost due to lithium battery. Q5) RAM types & (Random access Memory) SRAM & Static RAM, for tachbit there's 6 Housistors go it's expensive, don't require refreshing & fast, less Cafacity than DRAY.

DRAM: dynamic RAM Cheaper than SPAM as it sequives 1. Harsistor + apantor, due to cherge leakage, it reads refreshing & it something so its

Q6) Qui Cait write on AROM unless there's special configurations or external device writes on it. Fige Volatile Writable Francisco Evange Cost Speed SRAM Yes byte unlimited Figurie Past yes DRAM Yes yes byte unlined moderate malerate NURAM no byte unlimited experie fast yes Flash no book limited moderate fast to yes PROM no once by none none moderate first ( MuskRom no none some cheap fast 00 EPROM no yes by whole limited moderate fast byte limited esperive fast to read EE (ROM no yes