

Assignment 6 - writery.

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a) Write a nabe on microprocessor and microcontroller. Draw block diagram of PICIS, memory

Ans -

1) microprocessor

is microprocesser is suited to processing information in computer system.

ii) mi croprocessor is processing intensive has powerful addressing moders, instructions to perform complex operations and manipulate large volume of data. iii) microprocessor usually requires external circuitary

to interface IIp devices

iv) microprocessor has very wide hus width. Large memory address spaces (> 4 (obytes) and lots of datab Edata bus: 32, 64, 128 bits wide)

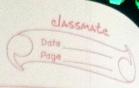
2) microcontroller.

is Is suited to control of IID devices requiring a minimus component count

ii) microcontroller is to control of IIPS and OIPS. Hence instructions are to set/clear bits, Boolean operations. It has extremely compact instructions, many implemented in one leyte.

Block diagram of memory

	ooh	Access RAM	0001
Bank	D	GAR	05Fh
	FFh		OFFA
Banki	ooh	GPR	looh
	FFh		IFFh
Bankz	ooh	GPR	200h
	FFh		2ffh
Ban kz	ooh	GPR	300h Access Bank Low
231405	FFh	1 6 1	3fth GPR
P. m. V. L.	ooh	GPP	400h Access Bank high
Banky	ffh		4FFh SFR
Banks	ffh	GPR	Fooh
Dan-3	ffh		5FFh / / / / / / / / / / / / / / / / / /
Banka		unused	600h
to14	100	Read ooh	EFFh /
STATISTICS AND A	da.	St. (DI)	Fooh /
	Assert 5	SFR	F5Fh /
	ooh		FGOH /
Bankis	FFN	SFR	FFFh/
	TILE		



	iii) It has buil	t in IID	cont	no) module, event			
	timing, counting. iv) Has namow buses, Relatively small memory address spaces (Kbytes) and less data (data bus & 16 lite wide)						
	iv) Has hamou	v buses, A	Relati	vely small memon.			
	address spaces	(Kbytes)	and	less data cdata			
	bus 8, 16 bit	s uside)		A SAME			
Block	diagram of P	IC18					
			398	S. THER LIVERY			
	MCIR/VPP C		40	RB7/PGD			
	RAOJANO/CUREF E	2	39	1 RB6/P4C			
	RAI/ANJ I	3	38	1 RB5/PGM			
	RAZ/ANZ/VRFF =	- 4	37	RB4			
	RR3/AN3/ VREFT	5	36	RB3/LANRX			
	RA4 1 TOCKI T	6	35	RB2/CANTX/IMTL			
	RA5/AN4/55/409 E	7 (1594)	347	RBI/INI			
	REO/ANS/RD E	8		RBOLINTO			
	REI/ANG/WR/C1001 I	9	CONTRACTOR OF THE	I VDD			
	RE2/AN7/ (3/(20UT I	10		VSS			
	VPD I	1) 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		RD7/PSP7/PID			
	VSS I	12	29	RD6/PSP6/PIC			
	OSCI (C/K) =	13	28 7	RDS/PSPS/PIB			
	OSC2/CIKOLRAG =			RD4/P5P4/ECCPI/PIA			
	RO TIOSOTICKI		26 7	RC7/RX/DT			
	RCITIOS, E	16	25 7	RCG/TX/CK			
	RC2/CCPa, =	17	24 7	RC4/ECCPI/SDD			
	RC3 SCK SL	18	23 7	RC4/5D1/5DA			
	RDO/PSPO/CIN+	19	22 7	RD3/P5P3/C2IN-			
	RD1/PSP1/C11N-	- 20	21	RD2/PSPL/C2/N+			