Roll No.

[Total No. of Pages: 3

SVS 323 B-17

B.Sc. Vth Semester Degree Examination ELECTRONICS

(Digital Electronics and Microprocessor)

Paper - 5.2

Tin	ne : 3	Hours		Maximum Marks : 80		
	In	struction	ns to Candidates	s:	•	
-		1)	Answer all qu	uestion	s in Section-A	
	,				estions from sectio	n-B
					estions from Secti	on-C
				S	ection - A	
1.	Choose the correct answer					(5×1=5)
	i)-	A digit				
		a) D	ata selector	b)	Data manager	
		c) D	ata distributer	d)	None.	
	ii)	A read/Write memory is also known as				
		a) R	OM [°]	b)	RAM	
		c) P	ROM	d)	EPROM	• •
	iii)	In inte	1 8085 μp . the	addres	s bus is of	bit wide.
		a) 4		b)	8	
		c) 10	6	. d)	32	
	iv)	Which	of the following	g interr	upts of 8085 μp	has highest priority.
-		a) R	ST 5.5	b)	RST 6.5	
		c) IN	NTR	d)	TRAP	•
	v)	IC 825	51 is	-		
	•	a) D	MA controller	b)	USART	
		c) P	PI	d)	PIT.	

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2.	Fill in the Blanks $(5\times1=5)$					
	i) The resolution of bit D/A converter is approximately 0.4 percent.					
	ii) A Dynamic RAM must be periodically.					
	iii) 8085 μp has number of opcodes					
	iv) When DI instruction of $8085 \mu p$ is executed are disabled.					
	v) DMA stands for					
3.	State whether the following statement are true or false (5×1=5)					
	i) Accuracy is a comparison of the actual O/P of D/A with the expected O/P.					
	ii) ROM is a volatile memory.					
	iii) In $8085 \mu p$ one of the operand must be in Accumulator.					
	iv) CALL & RETURN instructions are used with stack.					
	v) A Programmable peripheral interface is a single port device.					
	Section-B					
	Answer any five of the following (5×5=25)					
4.	What is demultiplexer? Explain 1:4 demultiplexer.					
5.	In brief give an idea of primary and secondary memories with examples.					
6.	Write a short note on Instruction cycle.					
7. .	Write an ALP to transfer the contents of memory location 8051 H to Accumulator and than to register D, E and H.					
8.	Explain in brief Instruction format with suitable examples.					
9,	What is stack? Explain PUSH and POP operations.					
10.	Draw the pin diagram of 8253 programmable Interval Timer (P&T).					

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Section-C

Answer any four questions.

 $(4 \times 10 = 40)$

- 11. Explain A/D converter by dual slope Integrating method.
- 12. Explain the operation of ROM diode array matrix with diagram.
- 13. Draw the functional block diagram and explain the Architecture of 8085 μp
- 14. Write an ALP to
 - 1) Add two 8-bit numbers
 - 2) Find 2's complement of 8-bit number.
- 15. Draw the Architecture of 8255 general purpose peripheral interface, explain the operation of each block.
- 16. Write a short note on
 - a) Binary weighted D/A converter
 - b) PROM.
