



DF-3004

Second Year B. Sc. (Sem. III) Examination March / April - 2016

Electronics for Computer Science: Paper - IV

(Microprocessor Circuit & Application)

Time: 2 Hours] [Total Marks: 50

Instructions:

(1)

નીચે દર્શાવેલ 🚁 નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.	Seat No.:
Fillup strictly the details of - signs on your answer book. Name of the Examination:	
◆ S. Y. B. Sc. (SEM. 3)	
Name of the Subject :	 (
◆ ELECTRONICS FOR COMPUTER SCIENCE - 4	
-Subject Code No.: 3 0 0 4 -Section No. (1, 2,):1,2,3	Student's Signature

- (2) All questions are compulsory.
- (3) Symbols and terminology used here have their usual meanings.
- (4) Scientific calculator is allowed.
- (5) Mobile (Cell phones) are strictly prohibited.

Q. 1 to 12 Multiple choice questions: (1 mark)

Q. 13 to 22 Multiple Choise Questions: (2 marks)

Q. 23 to 28 Multiple Choice Questions: (3 marks)

O.M.R. Sheet ભરવા અંગેની અગત્યની સૂચનાઓ આપેલ O.M.R. Sheetની પાછળ છાપેલ છે.

Important instructions to fillup O.M.R. Sheet is given on back side of the provided O.M.R. Sheet.

1	How	many buses are connected as part of the 8085A micropi	rocessor?
	(A)	5	
	(B)	8	
	(C)	2	
	(D)	3	
2		register in the 8085A that is used to keep track of the memore next op-code to be run in the program is the :	ry address
	(A)	instruction pointer	
	(B)	accumulator	
	(C)	stack pointer	
	(D)	program counter	
3	How	many bits are used in the data bus ?	
	(A)	9	
	(B)	10	
	(C)	7	
	(D)	8	
4	Whic	th bus is a bidirectional bus ?	
	(A)	address but and data bus	
	(B)	None of these	
	(C)	address bus	
	(D)	data bus	
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5	Single-bit indicators that may be set or cleared to show the results of logical or arithmetic operations are the :			
	(A)	monitors		
	(B)	decisions		
	(C)	flags		
	(D)	registers		
6		technique of assigning a memory address to ech I/O devouter system is called :	vice in the	
	(A)	dedicated I/O		
	(B)	wired I/O		
	(C)	memory-mapped I/O		
	(D)	ported I/O		
7	When	n was the first 8-bit microprocessor introduced ?		
	(A)	1979		
	(B)	1985		
	(C)	1969		
	(D)	1974		
8	Which of the following buses is primarily used to carry signals that direct other ICs to find out what type of operation is being performed ?			
	(A)	address bus		
	(B)	address decoder bus		
	(C)	data bus		
	(D)	control bus		
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9	Wha	t type of circuit is used at the interface point of an input port?
	(A)	tristate buffer
	(B)	None of these
	(C)	decoder
	(D)	latch
10		have to be converted to
	(A)	assembly language
	(B)	All of these
	(C)	hexadecimal machine code
	(D)	binary machine code
11	The	software used to drive microprocessor-based systems is called :
	(A)	machine language code
	(B)	BASIC interpreter instructions
	(C)	assembly language
	(D)	firmware
12		circuits in the 8085A that provide the arithmetic and logic functions called the :
	(A)	I/O
	(B)	None of these
	(C)	CPU
	(D)	ALU
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	(D)	24H	
	(C)	DF H	
	(B)	AF H	
	(A)	ВСН	
17	The	1's compliment of 50H =	
	(D)	B2H	
	(C)	11H	
	(B)	None of these	
	(A)	EF H	
16	If (A	A) = DE H and (B) = 11 H then A+B =	
	(D)	45 H	
	(C)	11 H	
	(B)	None of these	
	(A)	Both of these	
15	If (A	A) = 55H & Data is 10 H, then what will be XRI A?	
	(D)	HL pair and AB pair	
	(C)	AB pair and DE pair	
	(B)	None of these	
	(A)	HL pair and DE pair	
14	The	instruction XCHG is used to interchange	
	(D)	HL pair	
	(C)	BC pair	
	(B)	None of these	

LXI B will initiate

(A) Both of these

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	(D)	09 H
	(C)	13 H
	(B)	1E H
	(A)	11 H
22	If (C INR	C) = 1D H then what will be the (C) after executive the instruction C
	(D)	22 H
	(C)	11 H
	(B)	None of these
	(A)	Both of these
21		A)=11 H and if (C)=22 H, then what will be (A) after executing the action MOV A, C
	(D)	AND operation between (A) and (B)
	(C)	AND operation between (A) and 22H
	(B)	None of these
	(A)	OR operation between (C) and 7E H
20	ORI	C, 7E H will perform
	(D)	55 H
	(C)	10 H
	(B)	11 H
	(A)	14 H
19	If (A	A) = CD H and (B) = BC H then A-B =
	(D)	A2 H
	(C)	CD H
	(B)	None of these
	(A)	FF H

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The 2's compliment of 33H is

23	XRA A can be used
	(A) To clear register H
	(B) None of these
	(C) To clear an Accumulator
	(D) To clear register B
24	What will be the content of an Accumulator after executing the following instructions, ORA B then ANA A, if (A)=40 H and (B) = 33 H ?
	(A) 00 H
	(B) 42 H
	(C) 73 H
	(D) 01 H
25	What will be the (A) after executing the operation, A+B-C, if (A)=33 H, (B) = $22H$ and (C) = $11 H$
	(A) 44 H
	(B) 33 H
	(C) 72 H
	(D) C7 H

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	(D)	EF H	
	(C)	АВ Н	
	(B)	DE H	
	(A)	СА Н	
28	What	t will be the 2's compliment of register C if (C)=11 H	?
	(D)	33 11	
	(D)	55 H	
	(C)	12 H	
	(B)	62 H	
	(A)	82 H	
27		e (A) = 55H and (B) = 33 H, then what will be (A) after action A-B and then A+B	executing
	(D)		
	(D)	40 H	
	(C)	D3 H	
	(B)	None of these	
	(A)	73 H	
26		A) = 44H and (B)=70 H then, what will be the (A) after action ANA B?	executing