



DF-3004

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

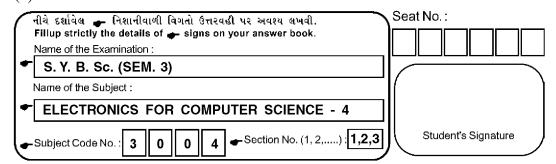
Electronics for Computer Science: Paper - IV

(Microprocessor Circuit & Application)

Time: 2 Hours] [Total Marks: 50

Instructions:

(1)



- (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.

DF-3	004_I	[Contd
	(D)	assembly language
	(C)	BASIC interpreter instructions
	(B)	machine language code
	(A)	firmware
4	The	software used to drive microprocessor-based systems is called :
	(D)	hexadecimal machine code
	. ,	All of these
	(B)	assembly language
	(A)	binary machine code
3		use microprocessor CPUs do not understand mnemonics as they are, have to be converted to
	(D)	decoder
	(C)	None of these
	(B)	tristate buffer
	(A)	latch
2	Wha	t type of circuit is used at the interface point of an input port ?
	(D)	data bus
	(C)	address decoder bus
	(B)	address bus
	(A)	control bus
1		ch of the following buses is primarily used to carry signals that direct ICs to find out what type of operation is being performed?

5		circuits in the 8085A that provide the arithmetic and logicalled the :	c functions
	(A)	ALU	
	(B)	I/O	
	(C)	None of these	
	(D)	CPU	
6	How	many buses are connected as part of the 8085A microp	processor ?
	(A)	3	
	(B)	5	
	(C)	8	
	(D)	2	
7		register in the 8085A that is used to keep track of the memne next op-code to be run in the program is the :	ory address
	(A)	program counter	
	(B)	instruction pointer	
	(C)	accumulator	
	(D)	stack pointer	
8	How	many bits are used in the data bus?	
	(A)	8	
	(B)	9	
	(C)	10	
	(D)	7	
DF-3	6004_I	3	[Contd

9	Whic	ch bus is a bidirectional bus ?
	(A)	data bus
	(B)	address but and data bus
	(C)	None of these
	(D)	address bus
10		le-bit indicators that may be set or cleared to show the results of logic rithmetic operations are the :
	(A)	registers
	(B)	monitors
	(C)	decisions
	(D)	flags
11		technique of assigning a memory address to ech I/O device in to puter system is called :
	(A)	ported I/O
	(B)	dedicated I/O
	(C)	wired I/O
	(D)	memory-mapped I/O
12	Whe	n was the first 8-bit microprocessor introduced ?
	(A)	1974
	(B)	1979
	(C)	1985
		1969
	(D)	1909

DF-3	004_Г	5 [Contd	
	(D)	11 H	
	(C)	None of these	
	(B)	Both of these	
	(A)	22 H	
17	•	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 22H	
	(C)	None of these	
	(B)	OR operation between (C) and 7E H	
	(A)	AND operation between (A) and (B)	
16	ORI	C, 7E H will perform	
	(D)	10 H	
	(C)	11 H	
	(B)	14 H	
	(A)	55 H	
15	If (A	A) = CD H and (B) = BC H then A-B =	
	(D)	CD H	
	(C)	None of these	
	(B)	FF H	
	(A)	A2 H	
14	The	2's compliment of 33H is	
	(D)	DF H	
	(C)	AF H	
	(B)	ВСН	
	(A)	24H	

The 1's compliment of 50H =

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DF-3	004_I	6	[Contd
	(D)	11H	
	(C)	None of these	
	(B)	EF H	
	(A)	В2Н	
22	If (A	A) = DE H and (B) = 11 H then A+B =	
	(D)	11 H	
	(C)	None of these	
	(B)	Both of these	
	(A)	45 H	
21	If (A	A) = 55H & Data is 10 H, then what will be XRI A?	
	(D)	AB pair and DE pair	
	(C)	None of these	
	(B)	HL pair and DE pair	
	(A)	HL pair and AB pair	
20	The	instruction XCHG is used to interchange	
	(D)	BC pair	
	(C)	None of these	
	(B)	Both of these	
	(A)	HL pair	
19	LXI	B will initiate	
	(D)	13 H	
	(C)	1E H	
	(B)	11 H	
	(A)	09 H	
	INR	C	

If (C) = 1D H then what will be the (C) after executive the instruction

18

23		A) = 44H and (B)=70 H then, what will be the (A) after action ANA B?	executing
	(A)	40 H	
	(B)	73 H	
	(C)	None of these	
	(D)	D3 H	
24		the $(A) = 55H$ and $(B) = 33$ H, then what will be (A) after ruction A-B and then A+B	executing
	(A)	55 H	
	(B)	82 H	
	(C)	62 H	
	(D)	12 H	
25	Wha	at will be the 2's compliment of register C if (C)=11 H	?
	(A)	EF H	
	(B)	СА Н	
	(C)	DE H	
	(D)	AB H	
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26	XRA A can be used
	(A) To clear register B
	(B) To clear register H
	(C) None of these
	(D) To clear an Accumulator
27	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) 01 H
	(B) 00 H
	(C) 42 H
	(D) 73 H
28	What will be the (A) after executing the operation, A+B-C, if (A)=33 H, (B) = 22H and (C) = 11 H
	(A) C7 H
	(B) 44 H
	(C) 33 H
	(D) 72 H