



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. Fillup strictly the details of 👉 signs on your answer book.	Seat No.:
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.

	(C)	registers	
	(D)	monitors	
2		technique of assigning a memory address to ech I/O device puter system is called :	ce in the
	(A)	wired I/O	
	(B)	memory-mapped I/O	
	(C)	ported I/O	
	(D)	dedicated I/O	
3	Whe	en was the first 8-bit microprocessor introduced ?	
	(A)	1985	
	(B)	1969	
	(C)	1974	
	(D)	1979	
		ch of the following buses is primarily used to carry signals the ICs to find out what type of operation is being performe	
	(A)	address decoder bus	
	(B)	data bus	
	(C)	control bus	
	(D)	address bus	
DF-3	004_F	B] 2	Contd

DF-3	004_I	3 [Contd
	(D)	I/O
	(C)	ALU
	(B)	CPU
	(A)	None of these
8		circuits in the 8085A that provide the arithmetic and logic functions called the :
	(D)	machine language code
	(C)	firmware
	(B)	assembly language
	(A)	BASIC interpreter instructions
7	The	software used to drive microprocessor-based systems is called :
	(D)	assembly language
	(C)	binary machine code
	(B)	hexadecimal machine code
	(A)	All of these
6		have to be converted to
	(D)	tristate buffer
	(C)	latch
	(B)	decoder
	(A)	None of these
5	Wha	t type of circuit is used at the interface point of an input port?

9	How	many buses are connected as part of the 8085A microproce	essor ?
	(A)	8	
	(B)	2	
	(C)	3	
	(D)	5	
10		register in the 8085A that is used to keep track of the memory and next op-code to be run in the program is the :	address
	(A)	accumulator	
	(B)	stack pointer	
	(C)	program counter	
	(D)	instruction pointer	
11	How	many bits are used in the data bus ?	
	(A)	10	
	(B)	7	
	(C)	8	
	(D)	9	
12	Whic	ch bus is a bidirectional bus ?	
	(A)	None of these	
	(B)	address bus	
	(C)	data bus	
	(D)	address but and data bus	
DF-3	004_B	3] 4 [C	ontd

13	ORI C, 7E H will perform	
	(A) None of these	
	(B) AND operation between (A) and 22H	
	(C) AND operation between (A) and (B)	
	(D) OR operation between (C) and 7E H	
14	If (A)=11 H and if (C)=22 H, then what will instruction MOV A, C	be (A) after executing the
	(A) None of these	
	(B) 11 H	
	(C) 22 H	
	(D) Both of these	
15	If $(C) = 1D$ H then what will be the (C) after INR C	er executive the instruction
	(A) 1E H	
	(B) 13 H	
	(C) 09 H	
	(D) 11 H	
16	LXI B will initiate	
	(A) None of these	
	(B) BC pair	
	(C) HL pair	
	(D) Both of these	
17	The instruction XCHG is used to interchange	:
	(A) None of these	
	(B) AB pair and DE pair	
	(C) HL pair and AB pair	
	(D) HL pair and DE pair	
DF-3	F-3004_B] 5	[Contd

DF-3	3004_I	B] 6	[Contd
	(D)	14 H	
	(C)	55 H	
	(B)	10 H	
	(A)	11 H	
22	If (A	A) = CD H and (B) = BC H then A-B =	
	(D)	FF H	
	(C)	A2 H	
	(A) (B)	None of these CD H	
21		2's compliment of 33H is	
	(D)	ВСН	
	(C)	24H	
	(B)	DF H	
	(A)	AF H	
20	The	1's compliment of 50H =	
	(D)	EF H	
	(C)	В2Н	
	(B)	11H	
	(A)	None of these	
19	If (A	A) = DE H and $(B) = 11 H $ then $A+B =$	
	(D)	Both of these	
	(C)	45 H	
	(B)	11 H	
	(A)	None of these	

If (A) = 55H & Data is 10 H, then what will be XRI A?

18

DF-3	004_E	3] 7	[Contd
	(D)	To clear register H	
	(C)	To clear register B	
	(B)	To clear an Accumulator	
	(A)	None of these	
25	XRA	A Can be used	
	(D)	СА Н	
	(C)	EF H	
	(B)	AB H	
	(A)	DE H	
24	What	t will be the 2's compliment of register C if (C)=11 H	?
		82 H	
	(C)	55 H	
	(B)	12 H	
	(A)	62 H	
23		e (A) = 55H and (B) = 33 H, then what will be (A) after action A-B and then A+B	executing

What will be the content of an Accumulator after executing the fo instructions, ORA B then ANA A, if (A)=40 H and (B) = 33 H			
	(A)	42 H	
	(B)	73 H	
	(C)	01 H	
	(D)	00 H	
27		t will be the (A) after executing the operation, A+B-C, if (= 22H and (C) = 11 H	A)=33 H,
	(A)	33 H	
	(B)	72 H	
	(C)	C7 H	
	(D)	44 H	
28		A) = 44H and (B)=70 H then, what will be the (A) after action ANA B?	executing
	(A)	None of these	
	(B)	D3 H	
	(C)	40 H	
	(D)	73 H	
DF-3	004_B	8]	[108÷4]