This question paper contains 3 printed pages]

(C)

 D_7

W-410-2018

FACULTY OF SCIENCE

B.Sc. (Second Year) (Fourth Semester) EXAMINATION NOVEMBER/DECEMBER, 2018

(CGPA Pattern)

COMPUTER SCIENCE

Paper VIII

(ALP using 8086 Microprocessor)

(MCQ + Theory)

Time: 2.00 p.m. to 4.00 p.m. (Saturday, 8-12-2018) Time—2 Hours Maximum Marks—40 N.B. : (i)Attempt All questions. (ii)Assume suitable data if necessary. (iii)Figures to the right indicate full marks. Draw figures wherever necessary. (iv)10 MCQ 1. Choose the *correct* answer: **(1)** Intel 8086 employ processing. (A) Serial (B) Parallel Distributed (D) None of these (C) (2)In arithmetic instructions register is used as destination. (A) AX(B) BX(C) CXAll of these (D) (3)In 8-bit signed integer bit is used as sign bit. (A) $\mathbf{D_0}$ (B) D_3

P.T.O.

(D)

None of these

WT			(2)	W-410-2018	
	(4)	Register CX is used as register.				
		(A)	Counter	(B)	Collector	
		(C)	Carry	(D)	None of these	
	(5)	In status register flags are used as control flags				
		(A)	04	(B)	02	
		(C)	03	(D)		
	(6)	of instruction identifies the operation is to be perform				
		(A)	Opcode	(B)	Operand	
		(C)	Command	(D)	Operator	
	(7)	The program written in assembly language is called				
		(A)	Source	(B)	Object	
		(C)	Machine	(D)	High Level	
	(8)	The assembly language program stored in a file having				
		exte	nsion.			
	3	(A)	OBJ	(B)	EXE	
		(C)	LST	(D)	ASM	
.0	(9)	instruction is <i>not</i> stack related instruction.				
50 P		(A)	PUSH	(B)	POP	
		(C)	DAS	(D)	PUSHF	
	(10)	In 80	ress is bit.			
		(A)	16	(B)	20	
15 (5) 25 (5)		(C)	8	(D)	None of these	
		12.02.02 2x.03.04	The	ory		
2.	(a)		t is microprocessor ?	Descr	ibe microarchitecture of 8086	

WT		(3) W—410—2018				
		Or Single				
	(c)	Explain working of data registers used in 8086 microprocessor. 5				
	(d) Explain various programs and files involved in assem program development life cycle.					
3.	(a)	Explain various steps used in assembly language program development				
		on PC.				
	(c)	Explain the following instructions: 5				
		(i) XCHG				
		(ii) NEG				
		(iii) ADD				
		(iv) OR				
		(v) INC.				
	(d)	What is addressing mode? Explain any two addressing modes of 8086				
		microprocessor. 5				
4.	Write	e short notes on (any two):				
£ 19.00	(a)	Segment registers				
	(b)	Ifthenelse structure				
	(c)	CALL and RET instructions				
2000 2000	(d)	Compare instructions.				