

	그 살아왔다. 그는 그 그리고 이렇게 하는 것으로 있는 것 같아.	
(4)	In HTML for Dad colour DCD code is	1
(d)	기를 맞는 것이 없는 것이 없는 것이 없는 것이 되었다. 그런 사람들은 살아 없는 것이 없는 것이다. 그런 것이 없는 것이 없는 것이 없는 것이다.	1
	(i) # 00 00 00	
	(ii) # ff 00 00	
	(iii) # 00 ff 00	
(P) Am	(iv) # 00 00 ff	
	swer any two of the following:	
(a)	What is File System? Explain tape based and disk based file system.	3
, (b)		3
	(i) Dumb Terminal	
	(ii) Intelligent Terminal	
(e)	What is Array ? Write an algorithm for Traversing Linear Array.	3
2. (A) Ans	swer any two of the following:	
(a)	Define OOP. Write its features.	3
(b)	Explain and tag used in HTML with example.	3
(6)	Explain how member functions of class can be defined outside the class definition and inside class definition with example in C++.	. 3
(B) Ans	wer any one of the following:	
(a)	Write the use of following file pointers with example:	4
	(i) seekg()	
	(ii) seekp()	
	(iii) tellg()	
	(iv) tellp()	
(p)	What is GUI? Explain the following components of GUI:	4
	(i) Menu Bar	
	(ii) Title Bar	
	(iii) Scroll Bar	
3. (A) Ansv	wer any two of the following:	
(a)	Explain the following process states:	3
1	(i) Running State	
	(ii) Ready State	
	(iii) Blocked State	
(b)	Explain Constructor and Destructor with example in C++.	3
~ (c)	What is Data Structure? Explain Linear Data Structure and Non-linear Data Structure.	3
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(B) Answer	any one of the following:	
	rite any eight basic rules for virtual function that satisfies the impiler requirements.	4
(b) De	efine Security. Explain the different elements of security.	4
4. (A) Answer	any two of the following:	. '
	ifferentiate between Traditional Procedural Programming Approach d Object Oriented Programming Approach.	3
(b) De	efine following Terms :	3
(i)	Group Item	
(ii) Elementary Item	
(ii	ii) Entity	
V	That is Binary Tree? With suitable example show the relationship etween Total Number of Nodes and Depth of Binary Tree.	3
(B) Answer	any one of the following:	
	That is Record? Explain how records are represented in memory sing array?	4
(b) Ex	xplain following terms in case of Process Scheduling:	
(i)	Turn-around Time	
(ii	i) Waiting Time	
(ii	ii) Terminal Response Time	
(ir	v) Event Response Time	4
5/ (A) Solve a	any two of the following:	
V	Trite a C ⁺⁺ program to accept an integer number and test whether is prime or not.	5
	Vrite a program in C ⁺⁺ using OOP technique to compute circum- brence of circle.	5
(a) W	rite HTML code for following output:	5
	Cricket Analysis	

Citer Analysis			
Country	Played	Won	Lose
INDIA	30	27	03
PAKISTAN	30	03	27

OR

- 5. Solve any two of the following:
 - (a) Write a C⁺⁺ program to find the smallest of four given integers using function min() that returns the smallest of four given integers. The function prototype is as below int min (int, int, int, int).
 - (b) Write an object oriented program in C⁺⁺ to read an integer number and find the sum of digits of integer [Hind: input 125 output 8 i.e. 1+2+5=8] 5

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(c) Write the output of the following HTML code: html">html">html">html">htmlhtml">htmlhtmlhtmlhtmlhttmlhtmlhttml<a hre

<body>
<UL type = "circle">

One

Two

Three

<UL type = "square'>

Monday

Tuesday

Vednesday

</body>

</html>

 Country
 Played
 Weat
 Less

 RNDIA
 30
 22
 8.03

 PAKISTAN
 30
 03
 23

2018	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
	COMPUTER SCIENCE
	PAPER - II (D-9)
Time	: 3 Hours 4 Pages Max. Marks : 50
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ctions:	(1) All questions are compulsory.
	(2) Figures to the right indicate full marks.
	(3) Draw neat diagrams wherever necessary.
	(4) Use of any type of calculator is not allowed. (5) Comments are must in Assembly Language Programs.
A) CI	A LITTLE BY A STATE OF THE PART OF THE PAR
	ct correct options and rewrite the following:
(a)	Intel 8085 is a/an bit Microprocessor.
	(i) 16 Answer any one of the following: (ii) 4 (iii) 4 (iii) 4 (iiii) 4 (iiii) 4 (iiii) 4 (iiiiiiiiii
	d.) Brights in brief the following appears method:
	(III) & contention
	(iv) 32
(b)	The instruction PCHL belongs to group.
	(i) Data transfer
	(ii) Logical
CONTRACTOR	(iii) Arithmetic
	(iv) Branching
(c)	Stack pointer of 8085 holds
	(i) 8 bit address
	(ii) 16 bit data
	(iii) 16 bit address

		(d)	The instruction set of intel 8051 Micro-controller contains total instruction.	1
			(i) 111	
			(ii) 72	
	ł		(iii) 74	
			(iv) 100	
	(B)	Ansv	wer any two of the following:	
	(D)	(a)	Explain the function of following pins on Intel 8085:	3
		(u)		
			(i) RD	
			(ii) WR	
			(iii) IO / \overline{M}	
		(p)	Explain direct and immediate addressing modes of Intel 8085 with suitable examples.	3
		(c)	Explain any three important features of pentium processor.	3
2.	(A)	Ansv	wer any two of the following:	
		(a)	Write the RAM and ROM size of 8048, 8049 and 8050 Microcontrollers.	3
		(b)	Explain Fiber-optic Cable with a neat diagram.	3
1		(c)	Explain the conditional CALL instructions of Intel 8085.	3
	(B)	Ansv	wer any one of the following:	
	C	ر(a)	Draw the functional block diagram of Intel 8085.	4
		(b)	Explain in brief the following access method:	4
			(i) Contention	
			(ii) Token Passing	
3.	(A)	Ansv	wer any two of the following:	
		(a)	What do you mean by Interrupt? List all the software interrupts of Intel 8085.	3
		(b)	The Registers A and C of 8085 contain the data E2H and 47 _H . What	
		1	will be the contents of Accumulator in Hex digits after execution of each of the following instructions independently?	3
1			(i) SUB C	
			(ii) XRA C	
			(iii) ADD C	
	4	(c)	Draw a bit pattern of flag register of Intel 8085 and write the functions of any four flags.	3
			net nd 8 (vi)	
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	(B)	Answer any one of the following:	
		(a) Explain in brief the following connectivity devices:	4
	199	(i) Repeater	
		(ii) Router	
		(b) Define the terms - Machine Cycle, Instruction Cycle and T-state with a timing diagram.	4
4.	(A)	Answer any two of the following:	
		(a) Explain the function of following instructions of Intel 8085:	3
		(i) L × I H, 2900H	
		(ii) LDA 6605H	
		(iii) PUSH B	
		(b) Explain the function of ALU with a simple block diagram.	3
		(c) What do you mean by Protocol ? Explain the concept of TCP/IP Protocol.	3
	(B)	Answer any one of the following:	
		(a) What is Microcontroller? State any six important features of Intel 8051 Microcontroller.	4
		(b) Explain Ring and Star Topologies with simple diagrams.	4
5.	Ans	wer any two of the following:	
	(a)	Write an Assembly Language Program to multiply an 8-bit number stored at 4301H by another 8-bit number stored at 4302H. Store the result at the location 4303H and 4304H beginning with LOB. (Lower Order Byte)	5
	(b)	Write an Assembly Language Program to fill in the memory locations starting from 6900H and onward with the decimal numbers 0 to 99.	5
	(c)	Write an Assembly Language Program to take the 2's complement of an 8-bit number stored at 3301H. Store the result at the memory location 3302H.	5

- 5. Answer any two of the following:
 - (a) Write an Assembly Language Program to count the occurrence of the data byte ACH in a memory block stored from 7401H to 7405H. Store the count at the memory location 7406H.
 - (b) Write a subroutine in assembly language to fill the memory locations 7301H to 73FFH with the hexadecimal numbers 01H to FFH respectively.

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(C) Write an Assembly Language Program to count the total number of even data bytes occurring in a block of data stored from 9201H to 920AH. Store the result (count) at the memory location 9500H.