

Instructions	: (1) All questions are compulsory.	(a) What is Arms 2 th
	(2) Figure to the right indicate full	mark.
	(3) Use of any type of calculator n	not allowed.
	(4) Draw a neat diagram wherever	necessary.
X. (A) S	Select the correct alternative from the fo	llowing and rewrite sentence:
1	order bits on address bus used to de	enote page number is 1
	(i) 11	(a) Write the use of R (i) seekg()
	(ii) 10	(ii) seckp()
	(iii) 9	
	(iv) 8	
	(b) Data items are divided into sub ite	m is called as 1
	(i) Group Item	(i) Menu Bar
	(ii) Elementary Item	
	(iii) Nodes	
3	(iv) Arrays ; solute zeromi gri	_(a) Explain the following
	o) object is a are	1 (i) Running State
	(i) Variable	(ii) Ready State.

Data type

(iii) Run Time Entity

(ii)

	, 그런 하셨다 현실 등 그리고 하다면 하는 것으로 그렇게 된다.	
(4)	In HTML for Dad colour DCD code is	1
(d)	경기 없다는 사람들이 마다 감소하는 것들이 걸려왔다면 생각하는 사람이 되지 않는데 그렇게 걸어 먹었다.	1
	(i) # 00 00 00	
	(ii) # ff 00 00	
	(iii) # 00 ff 00	
OS 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
, Or		- 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 <ol> and <ul> tag used in HTML with example.</ul></ol>	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 empiler requirements.	4
(b) D	efine Security. Explain the different elements of security.	4
4. (A) Answer	any two of the following:	. '
	ifferentiate between Traditional Procedural Programming Approach and Object Oriented Programming Approach.	3
(b) D	efine following Terms:	3
(i)	) Group Item	
(ii	i) Elementary Item	
(i	ii) Entity	
	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:	
	What is Record? Explain how records are represented in memory sing array?	4
(b) E	xplain following terms in case of Process Scheduling:	
(i	) Turn-around Time	
(i	i) Waiting Time	
(i	ii) Terminal Response Time	
(i	v) Event Response Time	4
5/ (A) Solve	any two of the following:	
V	Write a C <sup>++</sup> program to accept an integer number and test whether is prime or not.	5
	Write a program in C <sup>++</sup> using OOP technique to compute circumerence of circle.	5
Joy W	Write HTML code for following output:	5
	Cricket Analysis	

CHERCE 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<sup>++</sup> 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<sup>++</sup> 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

5

5

(c) Write the output of the following HTML code: <a href="html"></a> <a href="html"><a href="html">>a href="html"><a href="html"><a href="html">>a href="html"><a href="html">>a href

<br/><body><br/><UL type = "circle">

One

Two

Three

<UL type = "square'>

Monday

Tuesday

Vednesday

</UL>

</UL>

</body>

</html>

 Country
 Played
 Wea
 Lesc

 INDIA
 30
 22
 63

 PAKISTRAN
 30
 03
 29