

Instructions:	<ol> <li>All questions are compulsory.</li> <li>Figures to the right indicate full marks.</li> <li>Use of any type of calculator not allowed.</li> <li>Draw neat diagram wherever necessary.</li> <li>Header files and comments in C++ program are not necessary.</li> </ol>	
1. (A) Selection (a)	the correct alternative and rewrite the following:  Wastage of memory space within the partition is called as	
(b)	(i) Internal fragmentation (ii) External fragmentation (iii) Compaction (iv) Segmentation  Data items that are divided into subitems are called as	1
(c)	(ii) Elementry item (iii) Nodes (iv) Arrays  When a member function is defined inside the class, then it is treated as function.	
	(i) Inline (ii) Outline (iii) External (iv) Virtual	

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,	(b)	Write an algorithm for bubble sort with suitable example.	4
		(iv) Rotational delay	
		(iii) Transmission time	
		(ii) Seek time	
		(i) Track and Sector	
	(a)	Define following:	4
(B)		wer any one of following:	
	. ,	Table (PMT).	3
	(b) (c)	Explain page memory management system with a suitable Page Map	J
	(L)	(iii) Minimize and Maximize or Restore button  State any six principal advantages of object oriented programming.	3
		(ii) Scroll bars	
		(i) Title bar	
	(a)	Explain functions of each of following components of GUI:	3
2. (A)		swer any two of the following:	,
	(c)		e. 3
		$E = (a^2 + bc^2)/d$	
	(b)	What is Binary Tree ? Draw a binary tree diagram of following mathematical expression :	3
		(iii) Elementary item	
		(ii) Group item	
		(i) Entity	
	(a		3
(I	B) A	nswer any two of the following:	
		(iii) Hyperlink Reference (iv) Hypermedia Reference	
		(ii) Hypertext Reference	
		(i) Horizontal Reference	
	(	(d) Long form of HREF is	1

3.	(A)	Ansv	wer any two of the following:	
		(a)	What is Class? Explain general form of class declaration.	3
		(b)	Which are three main areas in O.S. divides it's services? Write example of each.	3
		(c)	What is Computer Worm ? Explain mode of operation of computer worm.	3
	(B)	Ansv	ver any one of the following:	
		(a)	Write any eight rules for operator overloading.	4
		(b)	What is Searching? Explain binary search algorithm with example.	4
4.	(A)	Ans	wer any two of the following:	
		(a)	What is HTML? State it's two advantages and disadvantages.	3
		(b)	Differentiate between Class and Object.	3
		(c)	Explain following tages of html with example:	3
			(i) <hr/> > https://www.maharashtrastudy.com	
			(ii) <pre></pre>	
			(iii) 	
	(B)	An	swer any one of the following:	
		(a)		4
			(i) ifstream	
			(ii) ofstream	
			(iii) filebuf	
			(iv) fstream	
		(b)	Explain following tages of html with example:	4
			(i) <b></b>	
			(ii) <ul></ul>	
			(iii) <sup></sup>	
			(iv) <img/>	
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- 5. Answer any two of the following:
  - (a) Write a C++ program which finds fibonacci series of 'n' terms.
  - (b) Write a C++ program to find factorial of a number during execution by using constructor function.

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(c) Write a html code to produce following output:

Years		_	
	Boys	Girls	Total
2011	30	20	50
2012	45	35	80
2013	55	75	130
2014	75	95	170

## Record

## OR

- 5. Answer any two of following:
  - (a) Write a C++ program to find entered number is armstrong number OR NOT armstong.
  - (b) Implement a class average that accepts value of three float variables another function print() average of three numbers.
  - (c) Write the exact output of following html program code with font specifications in bracket:

<html>

<body>

<Table border="2">

<TR> <TD Colspan = "2">

<H1 align = "center"> HSC Board Exam </H1>

</TD> </TR>

<TR> <TD> align = "center"><u> PAPER.I </u>

</TD>

<TD align = "center"> <u>PAPER-II </u>

</TD> </TR>

<TR> <TD> <P align="center"> <i> 50 marks <ii>

</P> </TD>

<TD align = "center"> <i> 50 marks <ii>

</TD>

</TR>

</Table>

</Body>

</HTML>