

Central Board of Secondary Education
Computer Science (Theory) - Class XII
Subject Code: 083
Design of Question Paper 2013 Examinations

Time : 3 hours

Max. Marks: 70

Weightage of marks over different dimensions of the question paper shall be as follows:

A. Weightage to different topics/content units

S.No	Topics	Marks
1	Review of C++ covered in Class XI	12
2	Object Oriented Programming in C++	12
3	Data Structure & Pointers	14
4	Data File Handling in C++	06
5	Databases and SQL	10
6	Boolean Algebra	08
7	Communication and Open Source Concepts	08
	Total	70

B. Weightage to different forms of questions

S.No	Forms of Questions	Marks for each question	No. of Questions	Total Marks
1	Very Short Answer questions (VSA)	01	09	09
2	Short answer questions - Type I (SA I)	02	13	26
3	Short answer questions - Type II (SA II)	03	05	15
4	Long answer questions (LA)	04	05	20
		Total	32	70

C. Scheme of Options

There will be no overall choice. All questions are compulsory.

D. Difficulty level of questions

- Based on the above design, two sets of sample papers along with their blue prints and Marking schemes have been included in this document.
- About 20% weightage has been assigned to questions testing higher order thinking (HOT) skills of learners.

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Blue Print of Question Paper for 2013 Examinations

S.No.	UNIT	VSA (1 Mark)	SA I (2 Marks)	SA II (3 Marks)	LA (4 Marks)	TOTAL
1	Review of C++ covered in Class XI	1 (1)	8 (4)	3 (1)		12 (6)
2	Object Oriented Programming in C++					
	a) Introduction to OOP using C++		2 (1)		4 (1)	6 (2)
	b) Constructor & Destructor		2 (1)			2 (1)
	c) Inheritance				4 (1)	4 (1)
3	Data Structure & Pointers					
	a) Address Calculation			3 (1)		3 (1)
	b) Static Allocation of Objects		2 (1)	3 (1)		5 (2)
	c) Dynamic Allocation of Objects				4 (1)	4 (1)
	d) Infix & Postfix Expressions		2 (1)			2 (1)
4	Data File Handling in C++					
	a) Fundamentals of File Handling	1 (1)				1 (1)
	b) Text File		2 (1)			2 (1)
	c) Binary Files			3 (1)		3 (1)
5	Databases and SQL					
	a) Database Concepts		2 (1)			2 (1)
	b) Structured Query Language	2 (2)	2 (1)		4 (1)	8 (4)
6	Boolean Algebra					
	a) Introduction to Boolean Algebra & Laws		2 (1)			2 (1)
	b) SOP & POS	1 (1)				1 (1)
	c) Karnaugh Map			3 (1)		3 (1)
	d) Basic Logic Gates		2 (1)			2 (1)
7	Communication & Open Source Concepts					
	a) Introduction to Networking	1 (1)				1 (1)
	b) Media, Devices, Topologies & Protocols				4 (1)	4 (1)
	c) Security	1 (1)				1 (1)
	d) Webservers	1 (1)				1 (1)
	e) Open Source Terminologies	1 (1)				1 (1)
TOTAL		9 (9)	26 (13)	15 (5)	20 (5)	70 (32)