

COMPUTER SCIENCE (Theory)

Class XII - Code : 083

Blue Print

| 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++ b) Constructor & Destructor c) Inheritance | | 2 (1) 2 (1) | | 4 (1) 4 (1) | 6 (2) 2 (1) 4 (1) |
| 3 | Data Structure & Pointers a) Address Calculation b) Static Allocation of Objects c) Dynamic Allocation of Objects d) Infix & Postfix Expressions | | 2 (1) 2 (1) | 3 (1) 3 (1) | 4 (1) | 3 (1) 5 (2) 4 (1) 2 (1) |
| 4 | Data File Handling in C++ a) Fundamentals of File Handling b) Text File c) Binary Files | 1 (1) | 2 (1) | 3 (1) | | 1 (1) 2 (1) 3 (1) |
| 5 | Databases and SQL a) Database Concepts b) Structured Query Language | | 2 (1) 2 (1) | | 4 (1) | 2 (1) 6 (2) |

| | | | | | | |
|---|--|--------------------------------------|------------------------|---------------|---------------|---|
| 6 | Boolean Algebra a) Introduction to Boolean Algebra & Laws b) SOP & POS c) Karnaugh Map d) Basic Logic Gates | 1 (1) | 2 (1) 2 (1) | 3 (1) | | 2 (1) 1 (1) 3 (1) 2 (1) |
| 7 | Communication & Open Source Concepts a) Introduction to Networking b) Media, Devices, Topologies & Protocols c) Security d) Web servers e) Open Source Terminologies | 2 (2) 2 (2) 1 (1) 1 (1) | | | 4 (1) | 2 (2) 4 (1) 2 (2) 1 (1) 1 (1) |
| | TOTAL | 9 (9) | 26 (13) | 15 (5) | 20 (5) | 70 (32) |

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Design of Question Paper for 2009-2010

TIME : 3 Hrs

MM : 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 | 08 |
| 6 | Boolean Algebra | 08 |
| 7 | Communication and Open Source Concepts | 10 |
| | 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

| S.No. | Estimated difficulty level | Percentage of marks |
|-------|----------------------------|---------------------|
| 1 | Easy | 15% |
| 2 | Average | 70% |
| 3 | Difficult | 15% |

- 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.