

BOARD OF SECONDARY EDUCATION, KARACHI

Secondary School Certificate (S.S.C.) Annual Examination

Class X (Science Group)	Computer Studies	2022	English Medium
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Max. Marks: 60 | Time: 3 Hours

SECTION "A" — MULTIPLE CHOICE QUESTIONS (MCQs) Marks: 24

NOTE: (i) Attempt all the Questions of this Section. (ii) Do not copy down the part questions. Write only the answer against the proper number of the Question and its part according to the question Paper. (iii) Each question carries 1 Marks

1. Choose the correct Answer for each from the given question:

(i).	The type of function which is the part of a computer language is known as: ☆ user-define function ☆ library function ☆ sub-program ☆ None of these
(ii).	The process of converting source code into object code is known as: ☆ Compiling ☆ Executing ☆ Linking ☆ Saving
(iii).	An inverter is: ☆ OR ☆ AND ☆ NOT ☆ none of these
(iv).	Step by step solution of a problem in simple language is called: ☆ Problem solving ☆ Algorithm ☆ Flowchart ☆ Data Structure
(v).	The looks of sprite can be changed by using: ☆ backdrop tab ☆ costume tab ☆ script tab ☆ control tab
(vi).	The type of data that is used for decimal point value is: ☆ int ☆ char ☆ boot ☆ float
(vii).	The parts of switch statements are "case" and: ☆ have ☆ if ☆ default ☆ for
(viii).	Loop within a loop is called: ☆ inner ☆ outer ☆ enclosed ☆ nested
(ix).	In a flowchart, an arrow represents: ☆ decision making ☆ start ☆ data flow ☆ stop
(x).	"!=" operator belongs to which type of operator? ☆ Arithmetic ☆ Logical ☆ Relational ☆ None of these
(xi).	Which of the following needs pressing "Enter key" from keyboard? ☆ getch() ☆ getche() ☆ getchar() ☆ gets()
(xii).	In Boolean Algebra, $A.\bar{A} =$: ☆ 0 ☆ 1 ☆ A ☆ $\bar{A}$
(xiii).	Which operator is used for input stream from the following: ☆ > ☆ < ☆ >> ☆ <<
(xiv).	The Boolean expression of NOR gate two variables is: ☆ $\bar{A} + \bar{B}$ ☆ $\bar{A} + B$ ☆ $A + B$ ☆ $\overline{A . B}$
(xv).	To send value, to the calling function we use: ☆ throw statement ☆ send statement ☆ return statement ☆ back statement
(xvi).	The number of bytes used by "int" type in C++ is: ☆ 2 ☆ 4 ☆ 8 ☆ 1
(xvii).	C++ statement ends at: ☆ . ☆ ; ☆ , ☆ :
(xviii).	In scratch, the character which moves on the stage is called a: ☆ sprite ☆ command ☆ script ☆ event
(xix).	Which of the following operator works only with integer value? ☆ / ☆ % ☆ + ☆ *
(xx).	The process of given variable, its starting value is called: ☆ declaring ☆ naming ☆ Initializing ☆ none of these
(xxi).	The universal gate is: ☆ NAND Gate ☆ AND Gate ☆ OR Gate ☆ None of these
(xxii).	The word "prototype" means: ☆ Declaration ☆ Calling ☆ Definition ☆ None of these
(xxiii).	All errors detected by a user are: ☆ syntax errors ☆ run time errors ☆ logical errors ☆ none of these
(xxiv).	"break" statement is used with: ☆ if ☆ switch ☆ for ☆ while

SECTION "B" (Short Answer Question) Marks: 24

NOTE: Attempt any EIGHT Questions from this section. All questions carry equal marks.

2.	What is Computer Program?	3
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3.	Write down the purposes of any two statements: (i) if-else (iv) continue (ii) return (iii) exit ()	3
4.	Why do we use Boolean Algebra?	3
5.	Differentiate between Arithmetic operators and relational operators.	3
6.	Why is there need of index in an array?	3
7.	Write down any three rules of naming variable in C".	3
8.	Write the uses of any three escape sequences: ☆ \t ☆ \n ☆ r ☆ \b ☆ \a	3
9.	Explain the purpose of "default" in C++.	3
10.	What are strings in C++?	3
11.	Write the functions of "for loop".	3
12.	Explain increment operator (++) and write the name of two ways of its usage.	3
13.	Describe comment statement. How many types of comment statement are used in C++?	3

SECTION "C" (Detailed - Answer Question) (12)

NOTE: Attempt any **TWO (2)** questions from this section. Each question carries (Six) 6 marks.

14.	Write any three steps of problem solving.	6
15.	Differentiate between constant and variable.	6
16.	Describe the following translators: (i) Compiler (ii) Interpreter (iii) Assembler	6

Notes on this reproduction

- Typeset by Tayarri from the printed question paper; no answer key is reproduced. The source sheet is pre-ticked by the publisher, so options are given unmarked.
- Source sheet is a guide reprint: no board monogram and no paper code are printed.
- The sheet heads itself **COMPUTER 2022 (For Fresh Candidates of 2022)**, without the word Studies. It is filed here as Computer Studies to sit with the 2023 and 2025 papers, which use that title.
- The mark figure in the Section C heading is partly under the source watermark; only the final digit survives. It is set as (12), which is what two attempts at six marks comes to. The note itself — two questions, six marks each — is clearly legible.
- Board spellings kept verbatim: "user-define function", "boot" (bool), the escape sequence printed as "r" without its backslash in Section B question 8, and "naming variable in C" in question 7, where the closing quote stands in for C++.
- The first option of MCQ (xiii) is under the watermark on the source sheet; it is set as ">", which is the only operator the remaining three leave unused.
- Section C offers three questions for **two** attempts totalling 12 marks, unlike 2023 and 2025, which offer six for four totalling 24.
- Only an English-medium printing was available. If you supply the Urdu-medium sheet it will be published as a separate file.