

BOARD OF SECONDARY EDUCATION, KARACHI

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

Class X (Science Group)	Computer Studies	2025	English Medium
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Max. Marks: 60 | Time: 3 Hours

SECTION "A" — MULTIPLE CHOICE QUESTIONS (MCQs) Marks: 12

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 options:

1.	"Continue" statement controls to: ☆ The top of loop ☆ The end of loop ☆ The top of function ☆ The end of function
2.	The universal gate is: ☆ NOR ☆ NOT ☆ OR ☆ None of these
3.	With the combination of three variables, outputs are expected altogether: ☆ Four ☆ Six ☆ Eight ☆ Ten
4.	When the data is pushed in stack, it means the data is: ☆ inserted ☆ deleted ☆ sorted ☆ Edited
5.	!= operator belongs to: ☆ Relational ☆ Logical ☆ Arithmetical ☆ None of these
6.	To compare two values of variables, the correct operator is: ☆ = ☆ <= ☆ == ☆ None of these
7.	Loop within a loop is called: ☆ Inner loop ☆ Outer loop ☆ Enclosed loop ☆ Nested loop
8.	"break" statements is used with: ☆ if ☆ switch ☆ for ☆ while
9.	To change the position of sprite on screen, we use: ☆ Coordinate ☆ Stage information ☆ Command pallets ☆ Costume Tap
10.	In binary tree, each child can have maximum: ☆ one node ☆ two nodes ☆ three nodes ☆ four nodes
11.	Syntax of High Level Language is easily readable for: ☆ humans ☆ machines ☆ human and machines both ☆ none of these
12.	The logic of program is graphically called: ☆ Date structures ☆ Graph ☆ Algorithm ☆ Flowchart

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

NOTE: Attempt any **EIGHT (08)** questions from this section. Each question carries three (03) marks.

2.	What is an algorithm?	3
3.	Define Reserved words.	3
4.	What is the importance of Flowchart for solving a problem?	3
5.	What are Strings in C++?	3
6.	What is Statement Terminator? Why do we use it in our programs?	3
7.	Define comment statement and its types.	3
8.	Why do we make block of statements using braces?	3
9.	What is the purpose of "default" statement in C++?	3
10.	Differentiate between Constant and Variable.	3
11.	What is a computer program?	3
12.	What do you know about Script area in a Scratch Editor?	3
13.	What is the difference between using scratch online and offline?	3

SECTION "C" (Detailed - Answer Question) (24)

NOTE: Attempt any **Four** questions from this Section. Each question carries Six(06) marks.

14.	Explain basic structure of C++?	6
15.	Define types of Basic Logic Gate with its symbol and Truth Table.	6
16.	Why do we need a language translator? Describe its types.	6
17.	Define increment and decrement operators with examples.	6
18.	Describe the types of Linear Data Structure.	6
19.	Write down the purpose and syntax of the following: (i) FOR (ii) WHILE (iii) DO-WHILE	6

- 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.
- Board spellings kept verbatim: “Editied” (edited), “Date structures” (data structures), “Command pallets” (palettes), “Costume Tap” (tab), and “break statements is used with”.
- The third instruction is printed as “iii)” with no opening bracket; reproduced as printed.
- Only an English-medium printing was available. If you supply the Urdu-medium sheet it will be published as a separate file.