

BOARD OF INTERMEDIATE AND SECONDARY EDUCATION, PESHAWAR

Secondary School Certificate (S.S.C.) Annual Examination 2018

COMPUTER SCIENCE (New)

Class: 10th (Fresh)	Ref: PR X (01) 18	Medium: English
Time: 2½ Hours		Total Marks: 55

Note: There are THREE sections in this paper i.e. Section A, B and C. Attempt Section-A on the same paper and return it to the Superintendent within the given time. No marks will be awarded for Cutting, Erasing or Overwriting. Marks of identification will lead to UFM case. Mobile Phone etc are not allowed in the examination hall.

SECTION - A (Objective)

Time: 15 minutes · Marks: 11

Q-I Write the correct option i.e. A, B, C or D in the empty box provided opposite to each part.

- i. Algorithm is a sequence of computational steps, that transform the input into
 A. Data Structure B. Algorithm C. Output D. All of these
- ii. Which symbol is used to represent processing?
 A.  B.  C.  D. None of these
- iii. A set of instructions that tells a computer what to do and how to do called.....
 A. Compiler B. Program C. Comment D. Hardware
- iv. The execution of a C program starts from function.....
 A. const() B. main() C. name() D. start()
- v. In C language every statement is terminated by
 A. Full stop B. Double quotes C. Semicolon D. Comma
- vi. Which operator is used to produce true result if both conditions are true?
 A. AND B. OR C. NOT D. All of these
- vii. Which programming statement makes a decision?
 A. If B. Break C. Assignment D. Printf()
- viii. The conditional portion of if statement is enclosed within
 A. { } B. () C. [] D. < >
- ix. How many types of loop structures are there in C?
 A. 4 B. 3 C. 2 D. 6
- x. The output of which gate is 1 only when all its input are 1?
 A. AND gate B. OR gate C. NOT gate D. NAND gate
- xi. Which language is used for creating web pages?
 A. HTML B. C language C. URL D. Web browser

Note: Time allowed for Section - B and Section - C is 2 Hours and 15 minutes.

SECTION - B

Marks: 28

Q-II Answer any SEVEN parts. Each part carries FOUR marks.

1. Define candid solution of problem?
2. Differentiate between compiler and interpreter?
3. What is the purpose of const qualifier?
4. What is the purpose of gets () functions?
5. Differentiate between simple and compound assignment operators.
6. Write a program that prints the larger of two numbers.
7. Define conditional/selection statement? And write the syntax if-else statement.
8. Draw the NAND, NOR, XOR and XNOR gates?
9. Write HTML tags for Title, Paragraph, Line Break, Spaces, heading.

SECTION - C

Marks: 16

Note: Attempt any TWO questions in detail. All questions carry equal marks.

Q-III What are output functions? Describe in detail various types of out put functions.

Q-IV Explain different types of looping structures with examples.

Q-V Simplify the following Boolean function using K-Map method. Also draw the logic diagram of the simplified function.

$$F = \overline{XZ} + \overline{YZ} + Y\overline{Z} + XYZ$$

Notes on this transcription

1. Typeset transcription of the Peshawar Board sheet (English-medium text). The sheet also prints the same paper for Urdu-medium candidates; that half is not in this file.
2. The source sheet came with answers already marked by the publisher. Options are given here unmarked; no answer key is included.
3. The roll-number, superintendent and Fic. No. blocks printed at the top of the answer sheet are omitted.
4. Peshawar sheets print no group label, so the paper is filed without one.
5. Question ii of Section A prints its first three options as flowchart shapes (A: rounded terminal shape, B: diamond, C: rectangle), reproduced as drawn.
6. Kept verbatim as printed: "OR gae" (Section A x), "candid solution" (Section B 1 — the Urdu half of the sheet asks for the best solution of a problem), "gets () functions", "out put functions".
7. In Q-V the overlines span both letters of the first two terms (complement of XZ and of YZ), exactly as printed.