



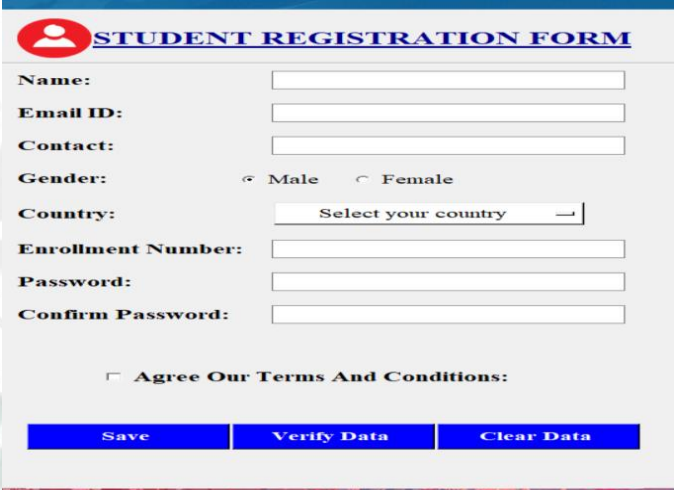
EXAMINATION MATERIAL ZUEB - 2022

COMPUTER SCIENCE XII

SECTION "C" EXTENDED RESPONSE QUESTION (ERQ'S)

NO.	TOPIC	ERQ'S
1	Concept of Computer Programming	<ol style="list-style-type: none">1. Write down the definition of a Program & Programming.2. Differentiate compiler & interpreter3. What are the steps of programing?4. Distinguish between syntax & logical errors5. What is the difference between Defining the problem and planning the solution.6. What is the role of Coding the program and testing the program in program process?7. Why Documenting the program is most necessary? When it is supposed to be done.
2	Algorithm & Flow chart	<ol style="list-style-type: none">1. Differentiate Algorithm & Pseudo code2. Distinguish Mathematical Notations & Algorithm Notations.3. What is a Flow chart? Define its types?
3	An overview of C language	<ol style="list-style-type: none">1. Define the structure of C program with an example.2. Define each element of the following text # include <stdio.h>3. Why function main is always the top of the C code?4. Define compilation process of a C code.5. What is the use of following in C code?<ol style="list-style-type: none">a. //b. \c. { }d. ()e. ;
4	C Fundamentals	<ol style="list-style-type: none">1. Explain with example all data Types of C language.2. Explain the C Constants with example.3. What are the C identifiers? Describe the rules for constructing Variables Names.
5	Operators and Expression	<ol style="list-style-type: none">1. Explain Operators & Expressions in C language.2. How can to classify the Operators in C? Define all with example.
6	Input and Output Statements	<ol style="list-style-type: none">1. Write down a C code to take two integer value and produce their sum?2. Design a C code to produce the ASCII character of user's value using getch() function.

7.	Selection Control Structure	<ol style="list-style-type: none"> 1. Why selection control structure is the major part of any program? 2. Design a mark sheet program using IF else for the following requirements. <ul style="list-style-type: none"> • Your program must take following inputs Marks for 5 subjects. [ENG, URDU, PHY, MATH, CS] • After inputs of subjects marks it must produce the total marks, percentage. • Assume your own checks for A1, A, B, C, D grade 3. Define switch, case, break, default with example code? 4. How many selections control structure are there in C? Explain with example.
8	Iteration Control Structure	<ol style="list-style-type: none"> 1. Explain the use of The Iterations Structures in programming? 2. Using For loop generate a series from 1 to 200 having 5 steps. 3. Generate a series code using While loop in reverse order from 200 to 100.
9	Functions	<ol style="list-style-type: none"> 1. Design a UDF to produce the ASCII value of a string value. 2. Using library functions produce sqrt,power and absolute value of a number. 3. Differentiate printf() and gets() function with an example of a string
10	Arrays [optional]	<ol style="list-style-type: none"> 1. Differentiate One Dimensional Arrays with double Dimension Arrays. 2. Give an example code of C to declare more than one Array and fill values in it? 3. Write down a code to perform any one given task; <ol style="list-style-type: none"> a. Entering values in Array b. Manipulation Arrays c. Searching an Array <p>Write a note on Multidimensional Array.</p>
11	Strings	<ol style="list-style-type: none"> 1. Explain the process of String Initialization. 2. How String Input/Output functions are being done in C/VB programs? 3. What are Built –in String Functions? 4. Design a code to access and Arrays of Strings.
12	Structure & Unions	<ol style="list-style-type: none"> 1. Define a Structure 2. Explain a simple Structure with Initializing Structure. 3. How can you Entering Data into Structure? 4. Give a clear example of Arrays of Structure 5. What are Nested structures? 6. What is Unions & Unions of Structure?
13	Pointers	<ol style="list-style-type: none"> 1. Explain the Arrays of Pointers 2. When and where you need to use Pointers & Strings?

14	Data files	<ol style="list-style-type: none"> 1. Design a C code to; <ol style="list-style-type: none"> a. Declaring a File b. Opening a File c. Error Checking d. Closing a File 2. Explain the File mode in C with example
15	Data Management System	<ol style="list-style-type: none"> 1. What are Database management Systems? 2. Using a Table 1.1 define the Record, Fields. 3. Create a table having all data types of DBMS. 4. List down the Advantages of DBMS & Disadvantage of DBMS 5. Explain the Component of DBMS. 6. What is Data Dictionary and why it is necessary in DBMS? 7. Construct a basic database Model using Following Models Hierarchal Database Models Network Database Model and Relational Database Model
16	Basics of MS ACCESS 2000	<ol style="list-style-type: none"> 4. List down the steps of Creating a New Database 5. What is MSACCESS? 6. Identifying Microsoft ACCESS Screen Elements 7. Identifying Microsoft ACCESS Screen Elements? 8. How can you design a student's information system in MSACCESS? <p>Use the following data to construct your system.</p> 
17	Advanced MSACCESS	<ol style="list-style-type: none"> 1. Define the Creating and Modifying Relationship Using the Relations Windows? 2. List down the possible queries using Table 1.1 3. Explain the purpose of creating Report Using Report Design view.