COMPUTER SCIENCE   12th CLASS – 12021 D4K-21   **TIME: 20 MINUTES**
MARKS: 15

OBJECTIVE

NOTE: You have four choices for each objective type question as A , B , C and D . The choice which you think is correct , fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question.

QUESTION NO. 1

	MS-ACCESS
1	In ERD model , the relationship between two entities is represented by
	(A) Diamond symbol (B) Rectangular box (C) Oval symbol (D) Line
2	Different attributes in two different tables having same name are referred to as
	(A) Acronym (B) Homonym (C) Mutually exclusive (D) Synonym
3	A database consists of various components called
	(A) Tools (B) Object (C) Entities (D) Properties
4	The data in table is entered in
	(A) Design view (B) Normal view (C) Datasheet view (D) Layout view
5	Which of the following data is least flexible ?
	(A) Network data model (B) Hierarchical data model (C) Relational data model (D) Object data model
6	A table must have
	(A) Primary key (B) Secondary key (C) Composite key (D) Sort key

	C - Language
7	a + = b is equivalent to
	(A) b + = a (B) a = + b (C) a = a + b (D) b = b + a
8	The escape sequence for tab is
	(A) \ (B) \b (C) \n (D) \t
9	The format specifier %f is used for
	(A) Integer (B) Unsigned short (C) Float (D) Unsigned long int
10	Select the programming structure that executes program statements in order
	(A) Decision (B) Repetition (C) Sequence (D) Iteration
11	A loop within another loop is called
	(A) Double loop (B) Dual loop (C) Complete loop (D) Nested loop
12	Global variables are created in
	(A) Hard disk (B) RAM (C) ROM (D) Cache
13	Void occupy how many bytes in memory
	(A) Zero (B) One (C) Two (D) Four
14	Which language requires no translator program ?
	(A) Assembly language (B) C (C) Machine language (D) C++
15	Which of the following operators has the lowest precedence ?
	(A) ! (B) = (C) = = (D) +

COMPUTER SCIENCE **SUBJECTIVE** **TIME : 2.10 HOURS**

SECTION-I **MARKS : 60**

QUESTION NO. 2 Write short answers any Six (6) parts of the following **12**

MS-ACCESS

1	What is entity ?	2	Who is the user or end user ?
3	Define cardinality	4	What is the primary objective of ER-diagram ?
5	What are reports ?	6	Define database object
7	What are relationships ?	8	What do you mean by join ?
9	How is a form constructed ?		

QUESTION NO. 3 Write short answers any Six (6) parts of the following **12**

C-LANGUAGE

1	Differentiate between preprocessor directives and header file	2	Why the source code cannot be executed directly ?
3	What is assembly language ?	4	Write down the names of logical operators available in C- language
5	List any two data types in C	6	What is keyword ? Give an example

7	Predict the output of the following code segment
	``c
	int price = 30 ;
	if (price != 15)
	printf (" Price ") ;
	``			

8	Predict the output of the following code segment
	``c
	int a = 9 ;
	if (a % 2 == 0)
	printf (" EVEN ") ;
	else
	printf (" Odd ") ;
	``			

9	Find errors in the following code segment
	``c
	int a = 20
	if (a = 10) ;
	printf (" OK ") ;
	else
	printf (" cancel ") ;
	``			

QUESTION NO. 4 Write short answers any Six (6) parts of the following **12**

C-LANGUAGE

1	What is use of printf function ?	2	List four types of format specifier
3	Define standard input	4	List different types of functions
5	Define global variable	6	Write down types of streams in life handling

7	Write output of following code
	``c
	int x ;
	x = 1 ;
	for (x = 10 ; x <= 100 ; x = x + 10)
	printf (" %d ", x) ;
	``			

8	Write output of following code
	``c
	int n = 10 ;
	while (n >= 1) {
	printf (" Value = %d \n ", n) ;
	}
	``			

9	Trace out errors from following code
	``c
	int k
	for (k = 0 , k <= 10 , k ++) ;
	printf (" %d " k)
	``			

SECTION-II

Note: Attempt any ONE question from this section   M S-ACCESS

Q.5	What is File ? Write in detail file types from usage point of view	8
Q.6	What is data integrity ? Explain types of integrity	8

SECTION-III

Note: Attempt any TWO questions from this section   C-LANGUAGE

Q.7	While writing a C program , how many types of errors can occur ? Discuss briefly. Which one is the most difficult to locate and remove ? Justify your answer	2+4+2
Q.8	Explain if statement with its purpose , syntax , flowchart and suitable program example	8
Q.9	Write a program that inputs a number from the user and displays the factorial of that number	