Roll No. ☐☐☐☐☐ (To be filled in by the candidate)

Computer Science FG H.S.S.C (12th) 1st Annual 2023

Time : 20 Minutes

Paper : II ـ SWL-12-23 Objective – (iii) Marks : 15

| Paper Code | 8 | 8 | 3 | 5 |

CANCELLED

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 in your answer book. Use marker or pen to fill the circles. Cutting or filling up two or more circles will result no mark.

SECTION-A

Q.1	Questions	A	B	C	D

MS-ACCESS

#	Question	A	B	C	D
1.	Different attributes in two different tables having same name are called:	Synonym	Homonym	Acronym	Mutually exclusive
2.	Customers, cars and parts are examples of:	Entities	Attributes	Cardinals	Relationships
3.	Which of the given is also known as control key?	Sort key	Composite key	Candidate key	Primary key
4.	A collection of related fields is called:	Character	Record	Database	File
5.	Which of the given is used to retrieve data from database and represent it to user in a formatted way?	Report	Form	Query	Table
6.	Which wild card replaces one character only?	*	?	:	!

C-LANGUAGE

#	Question	A	B	C	D
7.	The value of C expression 9/5*2 is:	3.6	0.9	0	2
8.	How many bytes are occupied by the statement : float a,b;	1	4	8	16
9.	Logical NOT operator, denoted by ! is a:	Ternary operator	Bitwise operator	Binary operator	Unary operator
10.	The .exe file is produced by?	Linker	Loader	Compiler	Interpreter
11.	Which of the given is the native language of computer?	C-Language	Pascal	Machine language	DOS
12.	The process of sending an argument to a function is called:	sending	filtering	delivering	passing
13.	Which of the given loop is not available in C language?	while wend	while	do while	for
14.	The case block ends with:	End select	End case	break	Case Else
15.	The functions used for input and output is stored in:	stdio.h	conio.h	math.h	inout.h

OR

VISUAL-BASIC

#	Question	A	B	C	D
7.	For A=4 and B=4, which of the given one evaluates to true?	A<>B	A<B	A>B	A>=B
8.	Which of the given is valid assignment statement?	100=a	c+d=a+b	a=100	4=6
9.	Which operators are used to compare operands?	Arithmetic	Logical	Syntax	Relational
10.	The expression 3 mod 5 has a value equal to:	3	5	0	0.6
11.	Which operator is only used for string concatenation?	Plus sign (+)	Underscore (−)	Ampersand (&)	"and"
12.	The loop that never ends is called:	Continuous loop	Running loop	Nested loop	Infinite loop
13.	One execution of loop is known as:	iteration	cycle	Duration	Test
14.	Which statement is used in For-Next loop for early termination of loop?	Exit	Exit Do	Exit For	break
15.	Which of the given is used for making two way decision?	if-else	If	Nested if	switch

314-423-1A-13000 ★★★

Computer Science FGS **H.S.S.C (12th) 1st Annual 2023** Time : **2:10 Hours** Y.COM

Paper : **II** SWL-12-23 **Subjective** Marks : **60**

SECTION-B
MS-ACCESS

2. Write short answers to any Six parts. (6 x 2 = 12)
   i. Define the term data integration.
   ii. What is the purpose of views in MS Access?
   iii. Define the term entity.
   iv. What is referential integrity?
   v. Define transitive dependency.
   vi. Differentiate between form and report.
   vii. Write any two advantages of query.
   viii. Write use of OLE object in MS Access.
   ix. List different layout of form.

3. Write short answers to any Six parts from "C-Language" OR "Visual Basic". (6 x 2 = 12)

C-LANGUAGE
   i. Write the role of preprocessor directive.
   ii. What is main function?
   iii. Define bug and debugging.
   iv. Which type of error is difficult to trace and why?
   v. Write the output of the code;
      Printf("value=%d",4-1);
   vi. Describe L value and R value.
   vii. What will be the value of x and y ? If x=7:
      y=x++;
   viii. Find the errors: Int a,b=20;   Printf {"%d",b};
   ix. Illustrate difference between text and binary streams.

Visual Basic
   i. Define visual programming.
   ii. What is default Event handler?
   iii. Describe Mouse Move Event.
   iv. Define Got Focus Event.
   v. Discuss cls method of Form.
   vi. What is Caption property?
   vii. Differentiate between properties and methods.
   viii. Discuss the method of assigning properties at run time.
   ix. Define Hexadecimal values from property window.

4. Write short answers to any Six parts from "C-Language" OR "Visual Basic". (6 x 2 = 12)

C-LANGUAGE
   i. Write down the use of "getch" function.
   ii. What is the use of format specifiers in C language?
   iii. Determine the output of the following code segment:
      Void main ()
      {
      printf("555 lt");
      printf ("999");
      printf ("ln 444");
      }
   iv. How are instructions executed in sequence structure?
   v. Determine the output of the following code segment:
      if(2==4)
      printf("PUNJAB");
      else
      printf("KPK");
   vi. Write the following expression in C:
      w is either equal to 6 or not greater than 3.
   vii. Write the syntax of *while loop*.
   viii. Define *infinite loop*.
   ix. Convert the following *for loop* into *while loop*.
      for(i=l; l <=5 i i ++)
      printf ("ok");

Visual Basic
   i. Write two advantages of list Box?
   ii. How Combo box is used?
   iii. What is image control?
   iv. In which situation scrollbar is used?
   v. How line control is used?
   vi. What is timer?
   vii. Why loops are important in programming language in VB.
   viii. What is frame?
   ix. What is Active x control?

SECTION – C
MS-ACCESS

Note: - Attempt any One question. (8x1=8)
5. Define database model. Explain different types of database models.
6. Explain physical Database design process.

SECTION – D

Note: - Attempt any Two questions from "C-Language" OR "Visual-Basic". (8x2=16)

C-LANGUAGE
7. What is control structure? Briefly describe the basic control structures for writing programs. 8
8. Write a program in C-language to print the given series. 0 3 6 9 12 15 by using loop. 8
9. Write short note on the following: 8
   (a) Functions without arguments. (b) Functions that return a value and accept arguments.

VISUAL BASIC
7. What is control structure? Briefly describe the basic control structures for writing programs. 8
8. Write a program in VB language to print the given series. 0 3 6 9 12 15 by using loop. 8
9. Write short note on the following: 8
   (a) Functions without arguments (b) Functions that return a value and accept arguments

Roll No. | | | | | | (To be filled in by the candidate) •

Computer Science

H.S.S.C (12ᵗʰ)-A-2022

Time : 20 Minutes

Paper : II

Objective – (ii)

Marks : 15

Paper Code | 8 | 8 | 3 | 3

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 in your answer book. Use marker or pen to fill the circles. Cutting or filling up two or more circles will result no mark.

SECTION-A

Q.1	Questions	A	B	C	D

MS-ACCESS

	Questions	A	B	C	D
1.	How many table views are available in Microsoft Access?	3	5	2	4
2.	A record is a complete set of _____ field.	Distinct	Related	Designed	Natural
3.	Different attributes in two different tables having same name are referred to as:	Synonym	Homonym	Acronym	Mutually exclusive
4.	An entity related to itself in an ERD model refers to:	Recursive relationship	One-to-Many relationship	Many-to-Many relationship	One-to-One relationship
5.	The foreign key is found in:	Parent table	Dependent table	Pivot table	Index table
6.	Which of the given may be a temporary file?	Master file	Transaction file	Backup file	Random file

C-LANGUAGE

	Questions	A	B	C	D
7.	Memory is allocated to a local variable at the time of its:	declaration	destruction	definition	first reference
8.	Which of the given function is used to write a string to a file?	puts	put c ( )	f puts ( )	f gets ( )
9.	Turbo C++ can compile:	C++ Programs only	C and C++ Programs	Turbo C Programs only	Turbo C++ Programs only
10.	In which loop the condition comes after the body of the loop:	While	Do-while	While wend	For
11.	Which of the given is valid case statement in a switch?	Case I:	Case xcy:	Case 'ab'	Case 2.5:
12.	Escape sequence \\ is used to print:	New line	Backslash	Space	Tab
13.	The logical not operator denoted by !, is a :	Ternary operator	Uniary operator	Binary operator	Bitwise operator
14.	a+ = b is equivalent to:	b+ = a	a = +b	a = a + b	b = b + a
15.	Void occupy how many bytes in memory?	Zero	One	Two	Four

OR
VISUAL-BASIC

	Questions	A	B	C	D
7.	Memory is allocated to a local variable at the time of its:	Declaration	Destruction	Definition	First reference
8.	Which of the method will close a file?	Close all	Append	Close	Exit
9.	Visual Basic can compile:	C++ Programs	Visual Basic Programs	C Programs	Java Programs
10.	In which loop the condition comes after the body of the loop?	While...wend	Do..Loop..while	While	For..next
11.	A project file is saved with the given extension:	.vbp	.frm	.vb	.frvb
12.	Which control is used to display text or to accept user input?	Label	Text box	Button	Connector
13.	To exit Visual Basic:	Press Alt+Q	Press Alt+F4	Alt+F6	Ctrl+F4
14.	Lists of commands such as Open, Print and Exit can be found on:	Toolbar	Tool box	Menu bar	Explorer
15.	Visual-Basic is a :	Front-end	Back-end	Reformer	Designer

313-422-A-10660 ★ ★

Computer Science   **H.S.S.C (12th)-A-2022**   Time : 2:10 Hours

Paper : II   Subjective   Marks : 60

SECTION-B
MS-ACCESS
(6 x 2 = 12)

2. Write short answers to any Six parts.
   i. How would you differentiate between tables and views?
   ii. How would you define End User?
   iii. How would you present the concept of Data Volume and usage analysis in physical database design?
   iv. How can you define about relationships in ERD?
   v. Differentiate between Entity Integrity and Referential Integrity?
   vi. What is meant by mutually exclusive data?
   vii. Write down any two main uses of reports.
   viii. How would you distinguish between form and sub-form?
   ix. What are use of toolbars in MS Access?

3. Write short answers to any Six parts from "C-Language" OR "Visual Basic". **(6 x 2 = 12)**

C-LANGUAGE	**Visual Basic**
i. Write down role of define directive.	i. Define comboBox control.
ii. Write down the use of delimeters.	ii. List down any four form methods.
iii. Define variable declaration.	iii. What is use of listbox control?
iv. How character constants are written in C-Language?	iv. Differentiate between event and event handler.

v. Trace errors from following code;
    int   marks=80
    Char   ch
	v. Write down common properties of textBox.

vi. Write down a C statement that initialize a character variable with z.	vi. What is meant by context menu?
vii. Define format specifier.	vii. Define PictureBox control.
viii. Write down output of following code: printf ("Name\t Roll No\n marks");	viii. Define project explorer.

ix. Trace errors from following code;
    Char   ch
    ch = Getch ( );
	ix. How many ways to get input in visual basic, write their syntax?

4. Write short answers to any Six parts from "C-Language" OR "Visual Basic". **(6 x 2 = 12)**

C-LANGUAGE	**Visual Basic**
i. What is compound statement?	i. What is relational expression?

ii. Find the output of code written below;
    int Z=11;
    if   (Z % 2 == 0)
      printf ("even");
    else
      printf ("odd");
	ii. What is the use of Goto statement in VB?

iii. What is sentinel loop?	iii. Define protest loop.

iv. Find the output of code written below.
    int n;
    for (n=0; n<5; n++)
    printf ("% c",'a'+n);
	iv. How Do....Until..... Loop works?

v. Convert the following code into for loop;
    int c=0;
    while (c < 10)
    {
      printf ("% d",c);
      c=c+2;
    }
	v. Define module?
	 vi. What are procedure level variables?
	 vii. Define function procedure?
	 viii. What is meant by the term pass by value?

vi. What is function header?	ix. What is the use of Exit Sub and Exit Function?
vii. What is lifetime of a variable?	
viii. Why return statement is used in functions?	
ix. What is text stream?	

SECTION – C
MS-ACCESS
8x1=8

Note: - Attempt any one question.

5. Write down four major components of database system in detail.
6. What is Query? Discuss different types of queries.

SECTION – D
8x2=16

Note: - Attempt any two questions from "C-Language" OR "Visual-Basic".
C-LANGUAGE

7. Write down the step-by-step procedure to create a C-program?   **8**
8. Write a program in C-language that accepts three numbers from user and display the largest number using nested if.   **8**
9. What is nested loop? Write its syntax and explain its working with flowchart and example.   **8**

VISUAL BASIC

7. How can we create a project in VB? Explain its different steps.   **8**
8. Write a program in VB that input three numbers by using three text box and display the largest number.   **8**
9. What is nested loop? Write its syntax and explain its working with flowchart and example.   **8**

Computer Science
FGSTUDY.com
Paper : II

Inter (Part-II)-A-2021
Objective – (II)

Time : 20 Minutes
FGSTUDY.com
Marks : 15

| Paper Code | 8 | 8 | 3 | 3 | SWL-21 |

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 in your answer book. Use marker or pen to fill the circles. Cutting or filling up two or more circles will result no mark.

Q.1	Questions	A	B	C	D
	MS-ACCESS				
1.	Which data type can be used to define a field that contains data content such as chart, picture or graphic object?	Hyperlink	Memo	OLE Object	Auto Number
2.	A database consists of various components is called:	Tools	Properties	Entities	Objects
3.	Which form of dependency is removed in 2NF?	Functional	Transitive	Associative	Partial
4.	Organizing the database in computer disk storage is done in:	Logical design	Physical design	Analysis	Implementation
5.	The foreign key is found in:	Parent table	Dependent table	Pivot table	Index table
6.	Which of the given may be a temporary file?	Master file	Transaction file	Backup file	Data file
	C-LANGUAGE				
7.	The loop which never ends is called:	Infinite loop	Running loop	Continuous loop	Nested loop
8.	Function prototype for built-in functions are specified in:	Source file	Object file	Image file	Header file
9.	The output of compiler is called:	Library Code	Source Code	Linked Code	Object Code
10.	Another term for a computer making a decision is:	Sequential	Selection	Repetition	Iteration
11.	The function that is used to display output on screen is called:	printf	scanf	pow	display
12.	Which escape sequence is used to erase a character left to the cursor position?	\b	\del	\n	\f
13.	The data type which is used to store numeric value with no decimal point?	char	int	float	double
14.	Which of the given operators has lowest precedence?	=	==	!	+
15.	C was designed to write program for:	Windows Operating System	Solaris Operating System	Unix Operating System	OS/2 Operating System

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Computer Science　　　　　　　Inter (Part-II)-A-2021

Paper : II　　　　　　　　　Subjective　**SWL-2**

(SECTION – I)

MS-ACCESS

Write short answers to any Six parts.

i. Write any two responsibilities of a database administrator.

ii. Define Primary Key.

iii. Enlist different types of relationships.

iv. What is the major objective of physical database design?

v. Which database object stores the data in database?

vi. Define Da

vii. What is li

viii. Differenti

ix. How does

C-LANGUAGE

Write short answers to any Six parts.

i. Write use of Turbo C++.

ii. Why does machine language program execute faster?

iii. Write short key for compiling and running a C-Program.

iv. Differentiate between declaring and defining a variable.

v. Define Logical Operator.

vi. Write two rules for naming variables in C.

vii. Write output of the following code:
```
int a=1, b=6;
if(a+b<7)
printf("%d", a);
else
printf("%d",b);
```

viii. Trace the
```
if(1 = = 2)
printf("hel
else
printf("we
```

ix. Write dow
```
int x,y;
x=15
y=10
if(x/y=0);
printf("ok)
```

C-LANGUAGE

Write short answers to any Six parts.

i. Enlist the symbols used as format specifier for different data types.

ii. What is meant by escape sequences?

iii. What is format string in scanf function?

iv. Find the errors in following code segment:
```
x=3.9, y=5.5
for( i =1; i <=10, i +)
printf("%d and % f", x,y)
```

v. Determine the output of the following code segment, assuming m is 3 and n is 5:
```
for(k=n; k>0;--k)
{
    for(j=m;j>0; --j)
    {
    printf("*");
    }
    printf("\n");
}
```

vi. Write the
fragment:
```
int k=0;
while (k<=
{
    print
    k++;
}
```

vii. What is di
and functi

viii. Define Glo

ix. What is me

SECTION – II