

1223 (Inter Part - II)

(Session 2019-21 to 2021-23)

Roll No _____

Computer Science (Objective)

Paper (II)

SGD-12-23

Sig. of Student _____

Time Allowed:- 20 minutes

PAPER CODE 4831

Maximum Marks:- 15

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. Write PAPER CODE, which is printed on this question paper, on the both sides of the Answer Sheet and fill bubbles accordingly, otherwise the student will be responsible for the situation. Use of Ink Remover or white correcting fluid is not allowed.

(MS-ACCESS)

S.N.	Questions	A	B	C	D
1.	Which of the following may be a temporary file?	Master file	Transaction file	Back up file	Random file
2.	The foreign key found in:	Parent table	Dependant table	Pivot table	Index table
3.	In hybrid distribution which kind of fragments are stored at only one site:	Critical fragments	Critical and non-critical fragments	non-critical fragments	only large fragments
4.	In relational database, a table is also called a:	Tuple	Relation	File	Schema
5.	How many types of queries are available in Microsoft Access?	4	3	2	5
6.	Which type of Form displays one record at a time?	Tabular	Columnar	Datasheet	Justified
7.	(C.Lang) Preprocessor directives are commands for: or (VB) The rectangle symbol in a flow chart indicates:	Micro processor Condition	Language Processor Input	C Preprocessor or Process	Loader Out put
8.	(C.Lang) Select a language that requires no translator to execute the program: or (VB) In visual Basic, a form is another name for a(n):	C Language Label یڈا کام	Assembly Language Method ایف	C++ Property کام	Machine Language Object ایف.بی.اے
9.	(C.Lang) Program variables are created in: or (VB) Methods characterize an object's:	Cache Style	RAM Behavior ایف FGSTUDY.COM	ROM Value ایف FGST	Hard disk Appearance ایف
10.	(C.Lang) Float data type requires memory of: or (VB) The MOD operator is used for:	1 byte Division	2 bytes Multiplication	4 bytes Integer Remainder	8 bytes Exponentiation
11.	(C.Lang) The symbol used for modulus operator is: or (VB) Relational operators are used to:	&& Add numbers	% Compare numbers	= Multiply	! Divide numbers
12.	(C.Lang) The format specifier % f is used for: or (VB) One execution of loop is known as:	int Duration ایف FGSTUDY.COM	char Test ایف	float Iteration ایف	long Continuity ایف
13.	(C.Lang) Conditional operator is an alternative of: or (VB) An index can be of the data type:	nested if String	if-else Integer	if Boolean	switch Currency
14.	(C.Lang) Which loop structure always executes at least once: or (VB) Which control provides an identifiable grouping for controls:	for Text Box	do-while Frame Control	while Label	while-do Command Button
15.	(C.Lang) Which of the following looks for the prototypes of functions used in a program? or (VB) Example of a windows common dialog box is:	Processor Label	Linker Text	Loader Timer	Compiler Open

Warning:- Please, do not write anything on this question paper except your Roll No.

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Computer Science (Subjective) جی

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Paper (II) ایف جی اسٹڈی کام

Time Allowed: 2.10 hours

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Maximum Marks: 60

SECTION ----- I

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2. Answer briefly any Six parts from the following.

(MS-Access) 6 × 2 = 12

(i) What do you mean by data independence? (ii) What is view? (iii) Define end user.

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(iv) Why is normalization used. (v) What is homonym?

(vi) What is database wizard? (vii) Define cardinality. (viii) How are records sorted in a query?

(ix) What is checkbox?

3. Answer briefly any SIX parts from the followings:-

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FGST 6 × 2 = 12

C – Language

ایف جی اسٹڈی کام

Visual Basic

(i) Why main function is important in every C

(i) What is translator?

Language program?

(ii) Differentiate between structured and unstructured

(ii) How are controls placed on Form?

programming languages.

(iii) Define the "IDE" of turbo C++.

(iii) Who is programmer?

(iv) What is object program?

(iv) Distinguish between Load and Unload

(v) What is user-defined identifier?

(v) What is enable property?

(vi) What will be the value of X (integer variable)?

(vi) Define implicit declaration.

X=3%10% Z;

(vii) What will be the output of the following code?

(vii) Define Input box.

printf("%d", 'a'+'b');

(viii) Trace error from the following code:

(viii) How controls are aligned left?

int x;

(ix) Differentiate between new line and EOF

(ix) How to make controls of equal size?

marker.

4. Answer briefly any Six parts from the followings:-

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FGSTUDY.COM 6 × 2 = 12

C – Language

Visual Basic

(i) What is the use of scanf () function? Write its syntax.

(i) Write two properties of an Algorithm.

(ii) Describe the term Format specifier in

(ii) What is the difference between hiding

C-language

and closing a Form?

(iii) Trace the output of the following code segment:

(iii) Define implicit declaration.

int x=0, y=5, z=4;

x = x+y*2;

y=x-y/2;

printf("%d%d", x,y);

(iv) Define conditional operator. Write its syntax.

(iv) Describe default property of command button.

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C- Language **Visual Basic**

(v) Trace the output of the following code segment: (v) What is pop up menu?

```

int p=3, q=5;
if((p>q) || (p!=4))
    p=p+1;
else
    q=p-1;
printf ("%d%d", p, q);
    
```

(vi) Write an expression in C-Language for the following: (vi) Convert the following code into while---wend loop.

Y is greater than X and less than Z.

```

Dim a As Integer
For a=1 To 25 step 2
    IF (a Mod 7 <> 0) Then
        Print (a)
    End If
Next
    
```

(vii) What is meant by loop? (vii) What is Visual Basic event?

(viii) Why is sentinel value used in loop? (viii) Differentiate between methods and properties.

(ix) Convert the following code into while () loop. (ix) Define combo box control.

```

int a;
for (a=1; a<=25; a+=2)
    if (a%7 != 0)
        print f("%d\n", a);
    
```

SECTION ----- II

Note: Attempt any ONE question. $(8 \times 1 = 8)$

- Describe the file types from usage print of view?
- Briefly describe basic data distribution strategies.

SECTION ----- III

Note: Attempt any TWO questions either from "C – Language" OR from "Visual Basic". $(8 \times 2 = 16)$

- C – Language** Define "nested if" statement. Explain its working with Syntax, Flowchart and Example.
- OR-- Visual Basic** Define "Nested if-Then-Else" structure. Explain its working with Syntax, Flowchart and Example.
- C – Language** Write a program in C-Language which prints the sum of the following series by using loops
 $1+4+9+16+25+....+256$
- OR-- Visual Basic** Write a program in VB which prints the sum of the following series by using loops
 $1+4+9+16+25+.....+256$
- C – Language** What are global variables? Explain their scope and life time with an example.
- OR-- Visual Basic** What are global variables? Explain their scope and life time with an example.

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. Write PAPER CODE, which is printed on this question paper, on the both sides of the Answer Sheet and fill bubbles accordingly, otherwise the student will be responsible for the situation. Use of Ink Remover or white correcting fluid is not allowed.

(MS-ACCESS)

S.N.	Questions	A	B	C	D
1.	Which of the following program is used to produce an on-screen or printed document from the database	Data Dictionary	Backup	Report Generator	Query Language
2.	Database development process involve mapping of conceptual data model into:	Hierarchical data Model	Implementation Model	Network data Model	Object oriented data Model
3.	Which of the following keys possesses the uniqueness property	Foreign Key	Secondary Key	Sort Key	Candidate Key
4.	When two different names are used for the same information or attribute creates a problem known as:	Synonym	Acronym	Homonym	Antonym
5.	Which of the following object of database is used to retrieve data from database?	Forms	Queries	Reports	Tables
6.	What criteria would you use to find a four character name that starts with H?	H*4	H?4	H???	H###
7.	(C.Lang) Which of the following is native language of the computer?	Assembly Language	C Language	Cobol Language	Machine Language
	OR (VB) Which of the following is native language of the computer?	Assembly Language	C Language	Visual Basic	Machine Language
8.	(C.Lang) Preprocessor directives are commands for:	C Preprocessor	Microprocessor	Language Processor	Coprocessor
	OR (VB) The bar that contains the commands needed to work with Visual basic is called:	Menu Bar	Status Bar	Title Bar	Scroll Bar
9.	(C.Lang) The set of values and a set of operations on those values are known as:	Data Science	Data base	Data Type	Data File
	OR (VB) The set of values and a set of operations on those values are known as	Data Science	Database	Data Type	Data File
10.	(C.Lang) Which of the following is not relational operator?	<=	!	!=	==
	OR (VB) Which of the following is not a relational operator?	<=	!	<>	=
11.	(C.Lang) The format specifier %u is used for:	Integer	Unsigned float	Unsigned long int	unsigned short
	OR (VB) The loop which never ends is called:	Continuous loop	Running loop	Uncontrolled loop	Infinite loop
12.	(C.Lang) A compound statement refers to a group of statements enclosed in:	{ }	()	[]	“ ”
	OR (VB) Which structure is an example of multiple branches from single expression?	Select case	If-Then	For-Next	If-Then-Else
13.	(C.Lang) In Which loop, statement terminator is part of its syntax?	for	do-while	while	for-while
	OR (VB) Which event is good to initialize form scope variables?	Form-Got Focus	Form-Load	Form-Change	Form-Activate
14.	(C.Lang) The first line of function definition is known as:	Function Declaration	Function Body	Arguments	Function Header
	OR (VB) A variable declared in a code module's general declaration section is called a:	Local variable	Form Level variable	Remote variable	Global variable
15.	(C.Lang) In the statement FILE*fp, the * represents:	Parameter	Variable	Pointer	Argument
	OR (VB) The entire Select Case construct is terminated with:	Case Else	End If	End Select	Stop Select

Board of Intermediate & Secondary Education, Sargodha

Instructions for Marking Answer Books

Subject: Computer science

(Subjective Part)

Class: 2nd year

Examination: Inter Special 2021

Max. Marks: 60

SECTION I

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C-Language

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Q#3. Answer briefly any Eight (08) parts from the following: (C Language) 8 x 2 =16

Part No.	Answer	Distribution of marks
(i)	Machine Independence means that program written in one language can be executed on different types of computers.	02
(ii)	Header file is collection of standard library functions to perform different tasks. Each header file contains different types of predefined functions. The extension of a header file is .h.	02
(iii)	It combines object program and library files and saves final machine language program as executable file. The extension of executable file is .exe.	02
(iv)	Arithmetic Operators are: +, -, *, /, % Relational Operators are: >, <, >=, <=, ==, !=	02
(v)	A variable is a named memory location or memory cell. It is used to store program's input data and its computational results during execution. The value of variable may change during the execution of program.	02
(vi)	Signed numbers contain both positive and negative values while unsigned numbers contain only positive values.	02
(vii)	1. In line number 1 the express $x == 3.5$ is wrong. Instead of relational operator ($==$) there must be assignment operator ($=$) used like this $x = 3.5$ 2. In line number 1 semicolon (;) is missing at the end of statement.	02
(viii)	Output: 4	02
(ix)	Output: Islamabad	02

Sheela Mathew
2021

Instructions for Marking Answer Books

Subject: Computer science

(Subjective Part)

Class: 2nd year

Examination: Inter Special 2021

Max. Marks: 60

SECTION----- I

C-Language

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Q#4. Answer briefly any Six (06) parts from the following: (C Language)

6 x 2 =12

Part No.	Answer	Distribution of marks
(i)	Format specifier is used to specify the format according to which values will be read and displayed. It determines the data type of variable, field width and format of the value. FGSTUDY.com	02
(ii)	The syntax of printf function is printf(Format String, argument_list);	02
(iii)	\a, \b, \f, \n, \r, \t, \', \", \\ (Note: Give two marks to student who writes Any Four of above mentioned escape sequence)	02
(iv)	1. In line 1, Int should be written as int 2. In line number 2, after condition of while loop semi-colon is illogical. 3. In line 2, While should be written as while . 4. In line number 4, printf should be written instead of Print . 5. In line number 5, statement terminator semi-colon (;) is missing at the end of statement. Note; Award full marks (02) for any two errors.	02
(v)	Award (02) marks to each student who attempted this part as code is wrong. FGSTUDY.com	02
(vi)	Output: 5 4 3 2 1	02
(vii)	Local variables are declared in a function but global variables are declared outside any function. Local variable is created when the control enters the function but global variable is created when the program starts.	02
(viii)	The statement that activates a function is known as function call. A function is called with its name. Function name is followed by necessary parameters in parentheses. If there are many parameters, these are separated by commas.	02
(ix)	The syntax of this function is fclose(file_pointer) where file_pointer is the file pointer that refers to the file to be closed.	02

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 (Inter Part - II) (Session 2017-19 to 2019-21) Sig. of Student _____

Computer Science (Objective)

S40-21

Paper (II)

Time Allowed:- 20 minutes

PAPER CODE 4837

Maximum Marks:- 15

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. Write PAPER CODE, which is printed on this question paper, on the both sides of the Answer Sheet and fill bubbles accordingly, otherwise the student will be responsible for the situation. Use of Ink Remover or white correcting fluid is not allowed.

(MS-ACCESS)

S.N.	Questions	A	B	C	D
1.	In 3NF, which form of dependency is removed?	Functional	Transitive	Non functional	Associative
2.	A record is a complete set of _____ field.	Distinct	Designed	Related	Non-related
3.	How many types of relationship?	5	4	3	2
4.	Which of the following may be a temporary file?	Master file	Transaction file	Back up file	Data file
5.	SQL is used for	Data definition	Data manipulation	Data definition and manipulation	Data creation
6.	Which of the following keys does not hold uniqueness property	Candidate key	Alternate key	Primary key	Secondary key

C- Language

S.N.	Questions	A	B	C	D
7.	No. of expressions in for loop statement are:	4	3	6	5
8.	Choose an alternative to the if-else statement from the following	Logical operator	Relational operator	Conditional operator	Arithmetic operator
9.	Memory is allocated to a local variable at the time of its.	Declaration	Destruction	Definition	First reference
10.	.exe file is produced by the	Linker	Loader	Compiler	Interpreter
11.	Debugging is the process of	Identifying Errors	Identifying and removing errors	Creating bugs in program	Removing Errors
12.	Which of the following is a valid character constant?	a	"b"	'6'	6
13.	Select a data type that offers the highest precision?	Float	Long int	Long double	Unsigned long int
14.	The function getch () is defined in	stdio.h	string.h	math.h	conio.h
15.	Select an operator with the highest precedence?	!	+	=	==

Warning:- Please do not write anything on this question paper except your Roll No.

21 (Inter Part-II) (Session 2017-19 to 2019-21)

Computer Science (Subjective) **S40-21**

Paper (II)

Time Allowed: 2.10 hours SECTION ----- I

Maximum Marks: 60
(MS-Access) 6 x 2 = 12

2. Answer briefly any Six parts from the following.

- (i) Who is the end user? (ii) How a relation is formed in database? (iii) List any two data distribution strategies. (iv) Define the term analysis. (v) Which database object is used to create and format printed output? (vi) What is an IDE? (vii) Differentiate between form and report. (viii) List out any four data types available in MS-Access. (ix) Why are field properties used in MS-Access?

3. Answer briefly any SIX parts from the followings:-

(C- Language.) 6 x 2 = 12

- (i) Define Program. (ii) What is the purpose of Linker?
- (iii) What is #define Directive? Give an Example. (iv) How a variable is Declared in C? Give an example
- (v) What are keywords? (vi) Write two rules for Naming Variables.
- (vii) Find Error: (viii) Trace Output: (ix) Trace Output:

```
if (x = 1 or 2)
printf ("%d", x);
```

```
int x=5, y=10;
if (x>y)
y=y+1;
printf ("Value of y=%d",y);
```

```
if(7%3 == 0)
printf ("Punjab");
else
printf ("KPK");
```

4. Answer briefly any SIX parts from the followings:-

(C- Language.) 6 x 2 = 12

- (i) Define standard output. (ii) What is use of format specifiers?
- (iii) Differentiate between getch () and getche (). (iv) Define local variable.
- (v) Show output of the given code. (vi) Show output of the given code.

```
int m;
for (m = 0 ; m < 10 ; m = m + 2)
printf ("%d", m);
```

```
int a, s = 0;
for (a = 10 ; a > 0 ; a - = 1)
s+ = a;
printf ("sum is =%d", s);
```

(vii) Trace errors of the given code.

```
void main ()
{
Far (int n = 1 ; n <= 5 , n ++ )
printf ("%d",n)
}
```

- (viii) List different types of functions in C.
- (ix) What is binary stream?

SECTION ----- II Note: Attempt any ONE question.

(MS - ACCESS) (8 x 1 = 8)

- 5. Discuss objectives of Database Management System.
- 6. When is a relation in first normal form? Explain with example.

SECTION-----III Note: Attempt any TWO questions

(C - Language) (8 x 2 = 16)

- 7. What is programming language? Explain two main categories of programming language.
- 8. Define "if" Statement. Explain its working with Syntax, Flowchart and example.
- 9. Write a program in C language that inputs a number, and displays its table according to the following format:

Suppose the number entered is 5, the output will be as follows:

```
5 * 1 = 5
5 * 2 = 10
5 * 3 = 15
:
:
:
5 * 10 = 50
```