Faisalabad Board-2024

Roll No. : _____

☆

Objective
Paper Code
8831

Intermediate Part Second
Computer Science (Objective)
Time: 20 Minutes   Marks: 15

Q.No.1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.

(MS-Access)

S.#	Questions	A	B	C	D
1	Storage and retrieval of data is related to:	Data capturing	Data manipulation ●	Managing output results	Data sorting
2	An attribute is also known as:	Record	Row	Relation	Field ●
3	Organizing the database in computer storage is done in:	Logical design	Physical design ●	Analysis	Implementation
4	A functional dependency is a relationship between two:	Entities	Relations	Rows	Attributes ●
5	A database consists of various components called:	Objects ●	Properties	Tools	Entities
6	The degree of relation refers to the number of:	Rows	Tables	Fields	Columns ●

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(C – Language OR Visual Basic)
(C – Language)

S.#	Questions	A	B	C	D
7	The target code produced by the compiler is:	Object code ●	Source code	Library code	Linked code
8	The symbols that perform operations on data are called:	Syntax	Operands	Operators ●	Rules
9	An ampersand before the name of a variable in scanf ( ) function denotes:	Address ●	Actual value	Format	Data type
10	Format specifier %5d for the value 8135 will produce the output:	8135	□8135 ●	□□8135	□□□8135
11	The case block ends with:	End select	End case	Case else	Break ●
12	If X = 5 and Y = 3, the expression (X > Y) ? (X + Y) : (X − Y) ; will display output as:	8 ●	2	0	− 2
13	The do-while ( ) loop structure always ends with:	Comma	Colon	Break	Semi-colon ●
14	The scope of variable refers to its:	Length	Name	Accessibility ●	Data type
15	On successfully closing a file, the fclose ( ) returns:	Null	Zero ●	One	File pointer

OR   (Visual Basic)

S.#	Questions	A	B	C	D
7	The step-by-step procedure to solve a problems is called:	Algorithm	Programming	Control	Flowchart
8	The bar that contains command needed to work with Visual Basic is called:	Title Bar	Status Bar	Menu Bar	Scroll Bar
9	The diamond symbol in a flowchart indicates:	Condition	Input	Output	Program
10	Control used to display text or to accept user input is called:	Label	Textbox	Button	Property
11	Forms and controls are collectively recognized as:	Methods	Properties	Events	Objects
12	Relational operators are used to:	Compare	Add	Multiply	Divide
13	Form property that displays text in the title bar of the form is:	Title	Header	Border text	Caption
14	In Visual Basic, which statement indicates the end of a decision structure?	Next	End	End if	Else
15	Which language is used for solving business problems?	C++	COBOL	FORTRAN	Assembly

Faisalabad Board-2024

1217-XII124

Intermediate Part Second

Roll No. _____

Computer Science (Subjective)

Time: 02:10 Hours   Marks: 60

SECTION – I

2. Write short answers to any SIX parts.   12

(MS – Access)   pakcity.org

(i)   What is data dictionary?

(ii)   Let you have a relation STUDENT in your database, such that
STUDENT (Col1 , Col2 , Col3 , Col4 , Col5) create a view on first and last attribute of STUDENT.

(iii)   What is data administrator?

(iv)   What is recursive relationship? Give an example.

(v)   Write any two disadvantages of "Centralized" data distribution strategy.

(vi)   Define transitive dependency.

(vii)   What is redundancy?

(viii) What is the main purpose of wildcards?

(ix)   Differentiate between check boxes and radio buttons.

3. Write short answers to any SIX parts.   12

(C – Language)

(i)   Define variable.   (ii)   What is an array?

(iii)   Find any two errors: (iv)   Find any two errors:
      int a = 10 , b = 40 ,   Void main ( ) ;
      printf ("Sum = :", a * b)   float i = 15.6;
                                                printf ("%d" , i),

(v)   What is meant by format string?   (vi)   Describe End-of-File (EOF).

(vii)   Write the output of the following code: (viii) Find output:
      printf ("Escape sequence is a   int a = 20;
      \" cool \ "feature of   int b = 3;
      \'C-language\' ");   printf ("Result = %d" , a % b);

(ix)   Write the statement in C-language: " Marks are between 40 and 60 "

OR   (Visual Basic)

(i)   Define property in VB.   (ii)   What is the purpose of control naming conventions?

(iii)   Describe code window.   (iv)   Differentiate between runtime and break time.

(v)   What are keyboard events in VB?   (vi)   Write the purpose of the statement 'unload me'.

(vii)   Define label control.   (viii) What is the purpose of a form?

(ix)   How does two groups of option buttons work independently?

4. Write short answers to any SIX parts.   12

(C – Language)

(i)   Define "switch" statement.   (ii)   Write the syntax of "do-while" loop.

(iii)   Predict the output of the following code segment: (iv)   Convert the following loop into do-while loop:
      int x = 2 , y = 1 , z = 5;   int i = 1;
      if (x > y && y > z)   while (i <= 15)
      printf ("YES");   {
      else   printf ("PUNJAB");
      printf ("NO");   i ++;
                                                        }

(v)   List different types of functions in C.   (vi)   Define function body.

(vii)   Write the use of actual parameters.   (viii) How is a function activated?

(ix)   Predict the output of the following code segment:
      int i = 5;
      do
      {
      printf ("PAKISTAN");
      i = i – 1;
      }
      while (i > 0);

OR (Visual Basic)

(i) Define infinite loop in VB.
(ii) Define string data type in VB.
(iii) Write the syntax of Msgbox.
(iv) How select --- case helps in coding?
(v) What is default property of command button?
(vi) Define goto statement in VB.
(vii) Differentiate between pretest and post test loop.
(viii) What are legal characters of a identifier?
(ix) Write the syntax of For --- Next loop.

| SECTION – II | Each question carries 08 marks. |

(MS-Access) Attempt any ONE question from the following:

5. Briefly describe four disadvantages of database systems.

6. What is query? Discuss its uses and advantages.

Attempt any TWO questions either from C-Language OR Visual Basic

(C – Language)

7. What is basic structure of C-program? Explain its different parts briefly.   02,02,02,02

8. Write a program in C-language that inputs marks of a student and displays his high grade according to the given criteria:

Marks	>= 90	80 – 89	70 – 79	60 – 69	40 – 59	< 40
Grade	A	B	C	D	E	F

9. Write a program that displays first five numbers with their cubes using loop:

```
Output    1       1
          2       8
          3       27
          4       64
          5       125
```

(Visual Basic)

7. What are VB common controls? Explain any three common controls of VB.   02,02,02,02

8. Write a program in Visual Basic that inputs marks of a student and displays his high grade according to the given criteria:

Marks	>= 90	80 – 89	70 – 79	60 – 69	40 – 59	< 40
Grade	A	B	C	D	E	F

9. Write a program in VB that displays first five numbers with their cubes using loop:

```
Output    1       1
          2       8
          3       27
          4       64
          5       125
```

Objective
Paper Code

8831

Intermediate Part Second - 136

Computer Science (Objective)

Time: 20 Minutes   Marks: 15   Faisalabad Board-2023

Q.No.1
You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.acf

(MS-Access)

S.#	Questions	A	B	C	D
1	Microsoft Access saves the database with the extension:	.mdb	.msdb	.madb	.mxls
2	The shortcut key for finding data in a table is:	Ctrl + A	Ctrl + F	Ctrl + N	Ctrl + O
3	Data that causes inconsistency lacks:	Good data	Data anomaly	Data redundancy	Data integrity
4	The column of a table corresponds to:	Table	Field	Record	Cell
5	In an E-R diagram, oval represents:	Entity	Attribute	Relationship	Decision
6	In 3NF, a non-key attribute must not depend on a:	Non-key attribute	Key attribute	Composite key	Primary key

pakcity.org ## (C – Language OR Visual Basic)
(C – Language)

S.#	Questions	A	B	C	D
7	Graphical representation of a program is called:	Logical chart	Binary chart	Flow chart	E-R chart
8	Semicolon is placed at the end of condition in:	do-while loop	for-next loop	Hybrid loop	While loop
9	The control structure which is used to repeat statements:	Selection	Sequential	Loop	Logical
10	The statement that activates a function is:	Function design	Function definition	Function declaration	Function call
11	The programmer usually enters source code into a computer using:	Compiler	Text editor	Debugger	Linker
12	Variable cannot begin with a / an:	Number	Lower case letter	Upper case letter	Underscore
13	The format specifier used for floating point value is:	%d	%a	%f	%s
14	Which operator is used for comparison?	Arithmetic	Relational	Postfix	Prefix
15	The number of bytes used for long int data type in C is:	2	4	12	16

OR   (Visual Basic)

S.#	Questions	A	B	C	D
7	Graphical representation of a program is called:	Logical chart	Binary chart	Flow chart	E-R chart
8	The pretest loop in VB is:	do-while loop	do-loop	while-wend	do-loop
9	The control structure, which is used to repeat statements:	Selection	Sequential	Loop	Logical
10	The statement that activates a function is:	Function design	Function definition	Function declaration	Function call
11	The programmer usually enters source code into a computer using:	Compiler	Text editor	Debugger	Linker
12	Variable cannot begin with a / an:	Number	Lower case letter	Upper case letter	Underscore
13	Which of the control of VB is used to mark only single option at a time?	Checkbox	Listbox	Optionbox	Combobox
14	Which operator is used for comparison?	Arithmetic	Relational	Postfix	Division
15	The number of bytes used for long integer data type in VB is:	2	4 or 8	12	16

1215-XII123   **Intermediate Part Second**   Roll No. _____

Computer Science (Subjective)
Time: 02:10 Hours   Marks: 60

SECTION – I

2. Write short answers to any SIX parts.   12

(MS – Access)

(i)   What do you know about data dictionary?
(ii)   What is index?
(iii)   How is entity integrity achieved?
(iv)   What is database anomaly?
(v)   What is meant by RDBMS?
(vi)   Define entity.
(vii)   State the use of wild cards.
(viii)   How is criteria specified in query?
(ix)   What is sub-form?

3. Write short answers to any SIX parts.   12

(C – Language)

(i)   Distinguish between source code and object code.   (ii)   What is meant by machine independence?
(iii)   What is the use of "define" preprocessor?   (iv)   List two causes of syntax error.
(v)   What is variable? Why it is used in programs?   (vi)   Declare a float variable with name avg.
(vii)   Find errors in the following code segment: (viii)   Predict output of the following code segment:

```
            int m , n ;                                  int x = 5 ;
            m = 10.3 ;                                   printf ( "%d \t %d" , 2 * x , 3 + x );
            n = 5 ;
            printF ( "%d" , m )
```

(ix)   What is text stream?

OR   (Visual Basic)

(i)   What is the difference between events and methods?   (ii)   How are the properties set at design time and run time?
(iii)   Write two rules for naming controls in VB.   (iv)   Why Visual Basic is called even-driven language?
(v)   What are three steps for creating VB projects?   (vi)   Write the purpose of textbox control?
(vii)   What is the purpose of command button?   (viii)   List types of property values?
(ix)   What is meant by show form method?

4. Write short answers to any SIX parts.   12

(C – Language)

(i)   Define standard input.   (ii)   List three types of format specifiers.
(iii)   Convert the following code into do-while loop: (iv)   Predict the output:

```
        int i = 0 ;                                  int a = 5 ;
        while ( i = = 1 )                            if ( a % 2 = = 0 )
        {                                                printf ( "Pakistan" ) ;
        printf ( "loop statement" ) ;                else
        i + = 2 ;                                         printf ( "Zindabad" ) ;
        }
```

(v)   What is conditional operator?   (vi)   Convert the following code to an equivalent if-else statement: (x > y) ? x * y : x + y ;

(vii)   Draw the flowchart of do-while loop.   (viii)   What is sentinel value?

(ix)   Trace the output of the following code:

```
            printf ( "Book \t reading \n" ) ;
            printf ( "is a \t very good" ) ;
            printf ( "Habbit" ) ;
```

OR   (Visual Basic)

(i) Define standard input

(ii) What is default property of command button?

(iii) Trace output:
```
if 10 mod 5 = = 1 then
        print "OK"
End if
```

(iv) How many times the following loop execute?
```
i = 10
do while i > 1
i = i + 1
loop
```

(v) Describe logical operators.

(vi) Draw the flowchart of: if – then – else structure

(vii) Write the syntax of while-wend loop.

(viii) What is goto statement?

(ix) Define nested loop.

SECTION – II   Each question carries 08 marks.

(MS-Access) Attempt any ONE question from the following:

5. Define data processing. What activities are involved in data processing? Discuss in detail.

6. Discuss different data distribution strategies in detail.

Attempt any TWO questions either from C-Language OR Visual Basic

(C – Language)

7. What is switch statement? Explain its working with the help of example.

8. Write a program that gets starting and ending point from the user and displays all odd numbers in the given range using loop.

9. What is a global variable? Explain its scope and life time with example.

(Visual Basic)

7. What is select --- case structure? Explain its working with the help of an example.

8. Write a program that gets starting and ending point from the user and displays all odd numbers in the given range using loop.

9. What is a global variable? Explain its scope and life time with example.

1215-XII123-28000

Objective

Paper Code

8831

Intermediate Part Second - 103

Computer Science (Objective)

Time: 20 Minutes   Marks: 15

Q.No.1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.coa

(MS-Access)

.#	Questions	A	B	C	D
1	Arithmetic manipulation of data is known as:	Summarizing	Classifying	Calculation	Sorting
2	In admission table, student Rollno is used as a:	Sort key	Foreign key	Primary key	Secondary key
3	The relationship between teacher and student is:	One to one	One to many	Many to one	Many to many
4	In 3NF, a non-key attribute must not depend on a:	Non-key attribute	Key attribute	Composite key	Sort key
5	Microsoft Access saves the database with the extension:	.mdb	.msdb	.madb	.sdbm
6	How many table views are available in MS-Access?	1	2	3	4

(C – Language OR Visual Basic)

(C – Language)

	Questions	A	B	C	D
7	The name of header file is written between:	[]	()	<>	« »
8	The lowest level of programming language is:	Java	Assembly	Pascal	C ++
9	The expression 14 % 3 has a value equal to:	2	4	4.66	11
10	M + = N is equivalent to:	N + = M	M = + N	N = N + M	M = M + N
11	Format specifier is started with the symbol:	?	%	\	*
12	Another term for a conditional operator is:	Ternary	Binary	Byte	Unary
13	One execution of a loop is known as:	Cycle	Duration	Test	Iteration
14	The scope of a variable refers to its:	Length	Name	Accessibility	Data type
15	On successfully closing a file, the fclose() returns:	Null	0 (zero)	File pointer	1 (one)

OR   (Visual Basic)

	Questions	A	B	C	D
7	Visual Basic is a product of:	IBM	Sun System	Microsoft	Hewlett
8	The lowest level of programming language is:	Java	Assembly	Pascal	C ++
9	The expression 14 MOD 3 has a value equal to:	2	4	4.66	11
10	Methods characterize an object's :	Appearance	Value	Style	Behaviour
11	Back colour, enabled and fore colour are examples of:	Objects	Properties	Parameters	Methods
12	Which programming structure makes a comparison?	Decision	Option	Sequence	Repetition
13	The keyword that marks the end of a Do structure is:	End While	End Do	Exit Do	Loop
14	Which one is a valid VB data type?	Int	Array	Boolean	Char
15	You can enter data in a control only when it has:	Mask	Focus	Tab order	Control

315-XII132021-30000

Computer Science (Subjective)

Time: 02:10 Hours   Marks: 60   **Faisalabad Board-2022**

SECTION – I

2. **Write short answers to any SIX parts.**   12

(MS – Access)

(i)   Define view.
(ii) Write two responsibilities of a database administrator.
(iii) Define an attribute. Give example.
(iv) List four data distribution strategy.
(v)   What is entity integrity?
(vi) What is Homonym?
(vii) Differentiate between menu bar and toolbar.
(viii) What is columnar form?
(ix) Define to create a report using the Report Wizard.

3. **Write short answers to any SIX parts.**   12

(C – Language)

(i)   Define unstructured programming languages.
(ii) Write the use of include directive. Also give example.
(iii) List symbol of arithmetic operators.
(iv) Write a code to increase the value of variable max by 5.
(v)   Write the output of the following code:
```
# include < stdio.h >
main () {
    int a = 45, b = 65 ;
    printf (" %d + %d = \t\t " , a, b) ;
    printf (" %d " , a + b) ;
}
```
(vi) Rewrite the following code after removing errors:
```
@ include < stdio.h >
void main (void) [
    int m ;
    m = 5 ;
]
```
(vii) Find and remove the errors in the following code:
```
int a = = 405
a = a * 2 ;
printf (" %d " a) ;
```
(viii) Why C-Language is called strongly typed language?
(ix) Differentiate between format specifiers and field-width specifiers.

OR   (Visual Basic)

(i)   Define unstructured programming language.
(ii) Differentiate between properties and methods.
(iii) Write any two keyboard events.
(iv) Write a code in VB to decrease the value of variable min by 5.
(v)   Write the output of the following code:
```
a = 5
b = 7
MsgBox a & b
```
(vi) Find and remove errors from the following code:
```
Private sub Form_load()
m = = 5
End Form
```
(vii) Briefly describe textbox control.
(viii) Enlist any four arithmetic operators.
(ix) What do you know about comments in VB?

4. **Write short answers to any SIX parts.**   12

(C – Language)

(i)   What is control structure?
(ii) Define goto statement.
(iii) Convert the following code into While loop:
```
int i ;
for ( i = 1 ; i <= 10 ; i ++ )
{
    printf ( "\n Pakistan" ) ;
}
```
(iv) Predict the output of the following code segment:
```
int x = 0 ;
{
for ( x = 1 ; x <= 15 ; x ++ )
printf ( "%d\n" , x * x ) ;
x ++ ;
}
```
(v)   Predict the output of the following code segment:
```
int k = 8 ;
int m = 7 ;
int z = k < m ? k ++ : m ++ ;
printf ( "%d" , z ) ;
```
(vi) Define string assignment.
(vii) Define global function.
(viii) What is function prototype?
(ix) Write two difference between function definition and function declaration.

(Continued P / 2)

OR (Visual Basic)

(i) What is focus? How is possible to the focus of different objects? (ii) What does MDI mean?

(iii) How does an array differ from simple variable? (iv) List the file modes for data file in VB.

(v) Describe rules for scope and lifetime of variable in standard module. (vi) Write different types of procedures in VB

(vii) Write the general syntax of function call in VB. (viii) Define project file in VB.

(ix) How many times does the following loop execute?

```
m = 10
Do while m > 1
m = m - 1
loop
```

SECTION – II Each question carries 08 marks.

(MS-Access) Attempt any ONE question from the following:

5. What is DBMS? Write four features of DBMS in detail.

6. Explain in detail data types used in MS-Access.

Attempt any TWO questions either from C-Language OR Visual Basic

(C – Language)

7. Define bug. How would you elaborate different types of errors in C-Language?

8. Write a program that input a character and print whether it is vowel or consonant, using switch structure.

9. What is for loop? Describe its working with example and flow chart.

(Visual Basic)

7. Define bug. How would you elaborate different types of errors in Visual Basic?

8. Write a program that input a character and display message whether it is vowel or consonant, using select case.

9. What is for --- next loop? Describe its working with example and flow chart.

315-XII122-30000

Roll No. : _____

Objective
Paper Code
8837

Intermediate Part Second
Computer Science (Objective)
Time: 20 Minutes   Marks: 15

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Q.No.1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.

(MS-Access)

S.#	Questions	A	B	C	D
1	Which dependency is removed in 3NF ?	Associative	Transitive	Partial	Multivalued
2	The smallest meaningful unit of data in a database is called:	File	Record	Character	Field
3	To find a four character name that starts with H, the criteria is specified as:	H*4	H ? 4	H ????	H ####
4	Which database model is referred to as an inverted tree?	Network	Hierarchical	Relational	Object oriented
5	A relation is also known as:	Tuple	Record	Table	Relationship
6	A technique for physically arranging the records of a file on secondary storage devices is called:	Fast retrieval	Data analysis	File organization	Update program

(C–Language)

S.#	Questions	A	B	C	D
7	Which escape sequence moves the cursor at the beginning of current line?	\ a	\ b	\ n	\ r
8	In statement scanf ("%c" , & km); km is a(n):	Integer variable	Character variable	Float variable	String variable
9	Conditional operator is an alternative of:	Nested - if	If - else	If	If - else - if
10	Which loop structure is not available in C?	While	Do - while	For	Do - until
11	The keyword used to specify the value returned by a function is:	Return	Break	Continue	Static
12	Which error occur when the program directs the computer to perform an illegal operation?	Runtime error	Logical error	Syntax error	Conceptual error
13	Which header file contains information about common mathematical functions?	stdio.h	conio.h	maths.h	math.h
14	Which data type offers the highest precision?	Float	Double	Long double	Unsigned long int
15	The result of C expression 9/4*2 will be equal to:	4.5	4.0	5	4

346-XII121-28000

Computer Science (Subjective)

Time: 02:10 Hours   Marks: 60

SECTION – I

2. Write short answers to any SIX parts.   12

(MS – Access)

(i) Define entity.
(ii) Differentiate between parent table and dependent table.
(iii) Define ER-Diagram.
(iv) What is project planning?
(v) Define RDBMS.
(vi) Name four database objects in Microsoft Access.
(vii) Name different types of queries.
(viii) Define the term cardinality of relation.
(ix) List different types of forms in Microsoft Access.

3. Write short answers to any SIX parts.   (C – Language)   12

(i) What do you mean by delimiters?
(ii) Define debugging.
(iii) What is the purpose of # sign in C ?
(iv) Define string constant. Give two examples.
(v) List any two data types in C.
(vi) Differentiate between unary and binary operators.
(vii) Determine the output of the given code:

```
int a = 1;
int b = 6;
if ( a + b < 7 )
    printf ( " % d " , a );
else
    printf ( " % d " , b );
```

(viii) What will be the output of the given code?

```
int a, b, c;
a = 10;
b = 3;
if ( a % b = = 1 )
    c = 0;
else
    c = 1;
printf ( " % d " , c );
```

(ix) Find the errors in the given code:

```
int a = 2
if ( a = 1 )
    printf ( " Ok " );
Else
    printf ( " Cancel " );
```

4. Write short answers to any SIX parts.   (C – Language)   12

(i) Define standard input.
(ii) List two names of functions used for character input.
(iii) Find the errors in the following code segment:

```
for ( x = 1 , x <= 5 , x + + )
printf ( " % d " ; x )
```

(iv) Determine the output of the following code segment:

```
int n;
for ( n = 1 ; n <= 5 ; n + + )
printf ( " % d \ n " , n );
```

(v) Predict the output of the following code segment:

```
int k = 1;
while ( k <= 5 )
{
    printf ( " Yes " );
    k + + :
}
```

(vi) Define text stream.
(vii) What is the lifetime of local variable?
(viii) Define function body.
(ix) Write the use of field width specifiers in C-Language.

SECTION – II   Each question carries 08 marks.

(MS-Access) Attempt any ONE question from the following:

5. Define database model. Discuss different types of database models.

6. What is first normal form? Explain it in detail.

(C – Language) Attempt any TWO questions from the following:

7. Describe characteristics of high-level programming languages.

8. What is control structure? Briefly describe the basic control structure for writing programs.

9. Write a program that inputs a number and print its table using loop.   02,06

346-XII121-28000

Time: 20 Minutes   Marks: 15

No.1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.

(MS-Access)

Questions	A	B	C	D
The data in table is entered in:	Design view	Normal view	Data sheet view	Layout view
A database consists of various components called:	Tools	Properties	Entities	Objects
In 3NF, a non-key attributed must not depend on a:	Non-key attribute	Key attribute	Composite key	Sort key
An entity related to insert in an ERD model refer to:	Recursive relationship	One-to-many	Many-to-many	One to one relationship
Insert command is used to insert:	A new table	A new record	A view	Dependencies
Which data model is more flexible?	Network data model	Hierarchical data model	Relational data model	Object data model

(C – Language OR Visual Basic)

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(C – Language)

	A	B	C	D
Which character is used to make the end of the string?	\a	\n	\s	\o
The process of sending an argument to a function is called:	Sending	Filtering	Delivering	Passing
While loop is also called:	Conditional loop	Wend loop	Counter loop	Continuous loop
Which loop structure always executes at least once?		while	Do while	Nested
Another term for a computer making a decision is:	Sequential	Repetition	Selection	Iteration
Which programming structure executes program statements in order?	Relation	Decision	Sequence	Repetition
An ampersand before the name of a variable denotes:	Actual value	Variable name	Address	Data type
Which data type is the most appropriate for storing a name?	Float	Int	Char	Long
The .exe file is produced by:	Linker	Loader	Compiler	Interpreter

OR (Visual Basic)

		A	B	C	D
7	Which returns true if A = 25 and B = 35 ?	A >= B	A > B	A = B	A <> B
8	Which is not a property of the common controls?	Fore colour	Name	Back colour	Close
9	While loop is also called:	Conditional loop	Wend loop	Counter loop	Continuous loop
10	How many times is the test expression of select case evaluated?	– 1	0	1	2
11	In Visual Basic, which keyword is used at starting point of a decision structure?	Loop	For	If	Else
12	A loop within a loop is called:	Outer loop	Complex loop	Nested loop	Inner loop
13	An object is composed of:	Properties	Methods	Events	Data
14	Which data type is the most appropriate for storing a name?	Float	Int	Char	Long
15	The .exe file is produced by:	Linker	Loader	Compiler	Interpreter

346-XII119-16000

Computer Science (Subjective)

Time: 02:10 Hours   Marks: 60   Faisalabad Board-2019

SECTION – I

Write short answers to any SIX parts.   12

(MS – Access)

(i) Define data inconsistency.

(ii) What is the purpose of backup and recovery?

(iii) What is entity?

(iv) Differentiate between cardinality and modality.

(v) What is homonym?

(vi) When is a relation in second normal form?

(vii) Write four major database objects in MS-Access.

(viii) Define the term degree of relation.

(ix) Differentiate between form and report.

3. Write short answers to any SIX parts.   12

(C – Language)

(i) Differentiate between linker and loader.   (ii) Define structured programming language.

(iii) Describe the use of comments in C-language.   (iv) How string value is displayed in C-language?

(v) Determine the output of the following code: (vi) Find errors in the following code segment:

```
int N = 65 ;
printf ( " % c ", N );
```

```
int a b ;
a = = 10 ;
```

(vii) Write a C-statement to initialize three integer variables named A, B and C and assign them the values 10, 20 and 30 respectively.

(viii) Write a single C-statement to print the following text:
Hello to
The World of C

(ix) What is the output of the following code segment?

```
float f = 1.34129 ;
printf ( " f = % 7.3 f ", f ) ;
```

OR   (Visual Basic)

(i) What is metadata?   (ii) What is the difference between structured and object-oriented programming?

(iii) List two types of user interfaces.   (iv) What property is used to set a form's height and width?

(v) Why is it important to declare a variable?   (vi) How is integer division different from floating point division?

(vii) What is a literal constant?   (viii) Differentiate between properties and methods.

(ix) What does option Explicit statement means in Visual Basic?

4. Write short answers to any SIX parts.   12

(C – Language)

(i) How are instructions executed in sequence structure?   (ii) What is a counter controlled loop?

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

```
int p, q, x ;
p = 21 ; q = 4 ;
if ( p % q = = 4 )
    x = 0 ;
else
    x = 1 ;
printf ( " x = % d ", x );
```

(iv) What is the output of the following piece of code?

```
int k ;
for ( k = 0 ; k > = 0 ; k + + )
    printf ( " % d \ n ", k ) ;
```

(v) Convert this piece of code to "do-while" loop:

```
for ( i = 1 ; i < = 10 ; i + + )
    printf ( " loop \ n " ) ;
```

(vi) Write a C-statement using conditional operator that checks the values of two variables (x,y). It assigns the smallest value to the variable 'min'.

(vii) How does a function return value?   (viii) Define a stream.

(ix) Differentiate between function definition and function declaration.

OR   (Visual Basic)

(i) Differentiate between inner and outer loops.   (ii) What is a counter variable?

(iii) Define the working of logical "AND" operator.   (iv) Define concatenation.

(v) What is a variable?   (vi) Define a comment in Visual Basic.

(vii) What are arithmetic operators?   (viii) What is a compound condition? Give example.

(ix) Why it is important to assign a data type to a variable?

SECTION – II   Each question carries 08 marks.

(MS-Access) Attempt any ONE question from the following:

5. Explain data models in detail.

6. What is filter? Discuss different types of filters in MS-Access.

Attempt any TWO questions either from C-Language OR Visual Basic

(C – Language)

7. Describe the characteristics of high level programming language.

8. Briefly explain the basic control structures for writing programs.

9. Write a program in C-language which inputs a number from user and displays its table.

(Visual Basic)

7. Describe the characteristics of high level programming language.

8. Briefly explain the basic control structures for writing programs.

9. Write a program in Visual Basic which inputs a number from user and displays its table.

346-XII119-16000

Objective
Paper Code
8831

Intermediate Part Second (New Scheme)
Computer Science (Objective)
Time: 20 Minutes   Marks: 15

Faisalabad Board-2018

Q.No.1 You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill the relevant circle in front of that question number on computerized answer sheet. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero marks in that question. Attempt as many questions as given in objective type question paper and leave other circles blank.

(MS-Access)

S.#	Questions	A	B	C	D
1	The manipulated and processed data is called:	Object	Information	Knowledge	Data
2	The column of a table is known as:	Record	Table	Field	Cell
3	In E-R diagram a rectangle represents:	Entity	Attribute	Relationship	Record
4	Different attributes in two different tables having same name are called:	Synonym	Acronym	Mutually exclusive	Homonym
5	A database consists of various components called:	Tools	Properties	Entities	Objects
6	Which data type is the default data type?	Memo	Number	Text	Autonumber

(C – Language OR Visual Basic)

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(C – Language)

7	The process of converting source code into object code is known as:	Compiling	Executing	Linking	Saving
8	a + = b is equal to:	b + = a	a = a + b	a = + b	b = b + a
9	Format specifier is started with symbol:	%	?	&	*
10	Which programming structure executes program statements in order?	Relation	Decision	Sequence	Repetition
11	In if statement, true is represented by:	0	1	2	3
12	One execution of a loop is known as a(n):	Cycling	Test	Duration	Iteration
13	In which loop the condition comes after the body of the loop:	While loop	For loop	Do-while loop	Nested loop
14	Global variables are created in:	ROM	RAM	Hard disk	Cache
15	Which function is used to write character to a file?	f putc()	f gets()	f scan()	f printf()

OR   (Visual Basic)

7	Which is not a type of language translator?	Debugger	Compiler	Interpreter	Assembler
8	In Visual Basic a form is another name for a(n):	Object	Window	Property	Label
9	Which statement initializes and loads form in memory without displaying it on screen?	Load	Unload	Hide	Unhide
10	Which data type is used to handle Yes or No response?	Short	Integer	Boolean	Date
11	Which is true about a variable during execution of program?	Name and value both can change	Name cannot change, value can change	Name can change, value cannot	Name and value both cannot change
12	Comments are used to:	Make the program run faster	Make the program compile easier	Increase the size of executable program	Helps others to read and understand program
13	Which operator is used to assign a value to a variable?	>	+	=	*
14	All these are relational operators except:	>	+	> =	= =
15	A loop within a loop is called:	Nested loop	Complex loop	Outer loop	Inner loop

Computer Science (Subjective)

Time: 02:10 Hours   Marks: 60

SECTION – I

pakcity.org   12

2. Write short answers to any SIX parts.

(MS – Access)

(i)   Define data inconsistency.
(ii)   List any two problems in traditional file approach.
(iii)   Define composite key / concatenate key.
(iv)   Write the purpose of feasibility study.
(v)   What is meant by entity integrity?
(vi)   Define the term synonym.
(vii)   List any two advantages of reports.
(viii) What is the use of SELECT query?
(ix)   State the purpose of radio buttons.

3. Write short answers to any SIX parts.   12

(C – Language)

(i)   What is meant by language processor?
(ii) Define preprocessor directive.
(iii) List four keywords in C.
(iv) Why the logical error is the most difficult error to find?
(v)   Write about data type in C.
(vi) What is the use of "getch" function?
(vii) Trace the errors in the following code:
```
#includes<stdio.h>
    void Main();
{
    printf(" Hello World ");
}
```
(viii) Determine the output:
```
char w1, w2, w3;
w1 = 'A';
w2 = 'B';
w3 = 'C';
printf(" % c w2 % c ", w1 , w3 );
```
(ix) Determine the output:
```
int x = 3;
printf( " % d % d ",x , 2*x );
```

OR   **(Visual Basic)**

(i)   Which language is used to write algorithms?
(ii) Why is it necessary to test a program?
(iii) Write the use of text box.
(iv) Write two examples of events.
(v)   Find error in following code:
```
Dim MyAge As Integer
Dim Name As String
```
(vi) Find error in following:
```
If x = 5
x = 3
```
(vii) Define control structure in VB.
(viii) Write the use of NOT operator.
(ix) Differentiate between '+' and '&' .

4. Write short answers to any SIX parts.   12

(C – Language)

(i)   Name any two control structures.
(ii) What is meant by loop?
(iii) Determine the output:
```
int x = 50;
int y = 25;
    if ( x % y == 0 )
        printf( " Result = % d ", x % y);
    else
        printf( " No result ");
```
(iv) Determine the output
```
int x = 0;
    for ( x = 1 ; x <= 15 ; x ++ )
    {
        printf( " % d \ n ", x * x);
        x ++ ;
    }
```
(v)   Find errors:
```
void main (void)
{
    int x = 10;
    if ( x = 10 )
        printf( " True " );
    end if
}
```
(vi) Convert the following for loop into while loop:
```
int a = 0;
    for ( a = 10 ; a >= 1 ; a -- )
    {
        printf( " %d ", a ) ;
        printf( " \ n " ) ;
        a -= 2 ;
    }
```
(vii) Why is function used in program?
(viii) List two types of functions in C.
(ix) Define the stream in C-Language.

(Continued P / 2)

OR   (Visual Basic)

(i)   What is the use of message box?
(ii) What is the counter controlled loop?
(iii) Determine the output of the following code:

```
Dim P As Integer
    P = 8
    If P = 8 then
        print P mode 8
```

(iv) Find errors in the following code:

```
Dim x As integer
    x = 49;
    if x % 2 = 0
        then print "even"
```

(v)   How does a function return a value?
(vi) What is the life time of a local variable?
(vii) What is meant by event driven programming?
(viii) What is the use of file pointer?
(ix) Write syntax of If – Then – Else structure.

SECTION – II   Each question carries 08 marks.

(MS-Access) Attempt any ONE question from the following:

5. What is a key? Discuss different types of keys used in database.

6. What are reports? Explain any two types of reports.

Attempt any TWO questions either from C-Language OR Visual Basic

(C – Language)

7. What are identifiers in C-Language? Discuss their types.

8. Write a program in C-Language which input a year from keyboard and find whether it is a leap year or not.

9. Define while loop. Write its syntax and draw flowchart. Also explain its working using an example.

(Visual Basic)

7. Explain any four components of Visual Basic IDE.

8. Write a program in Visual Basic which input a year from keyboard in a text box and find whether it is a leap year or not.

9. Define While - Wend loop. Explain its working using an example.

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