## COMPUTER SCIENCE

PAPER CODE - 8835

12<sup>th</sup> CLASS - 1<sup>st</sup> Annual 2024

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 marks in that question.

QU	ESTION NO. 1							
	MCACCECC							
1	MS-ACCESS The output of the query is in the form of a							
	(A) Table (B) Form (C) Report (D) List							
2	How many table views are available in Microsoft A	Access						
2	(A) 1 (B) 2 (C) 3 (D) 4							
3	A collection of related fields is called (A) Character (B) File (C) Database (D) I	Dagord						
4	Which of the following is not a type of database ke	Record						
*	(A) Public (B) Primary (C) Foreign		Secondary					
5	In an ER diagram, a diamond represents	<b>V</b> - <b>y</b>						
	(A) Attribute (B) Relationship (C) Entity	(D) F	LOS TO A S					
6	Which form of dependency is removed in 3NF?	<b>33 73</b> 4	pakcity.org					
	(A) Full (B) Functional (C) Transitive (I	O) Part	iai 🧸 💮					
	C-LANGUAGE	OR	VISUAL BASIC					
7	What will be the value of y after executing the	7	Image control holds a graphic that is assigned					
	following statement	,	to property					
	y = (5 < 10) ? 5 : 10;		(A) Caption (B) Auto size (C) Picture (D) Text					
0	(A) 5 (B) 10 (C) 510 (D) 15							
8	All of the followings are control statements except	8	All Items in a list box can be cleared at once using method					
	(A) Sequential (B) Repetition	343	(A) Remove item (B) Delete (C) Finish (D) Clear					
	(C) Selection (D) Float	3/	( ) = 1.00 ( ) = 1.00 ( ) = 1.00 ( ) ( ) = 1.00 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (					
9	Which of the following symbol is used at the and	9.	You can enter data in a control only when it has					
	of case statement		(A) Control (B) Focus (C) Mask (D) Tab order					
10	(A); (B) end 1 (C): (C)	10	Roman and controls are callestimales as a significant					
10	The first line of function definition is known as	10	Forms and controls are collectively recognized as (A) Properties (B) Method (C) Object (D) Events					
	(A) Arguments (B) Function body (C) Return type (D) Function header		(11) 1 Topolitics (15) Iviculou (C) Object (D) Evelits					
11	An array subscript should be	11	The naming prefix for a label control is					
	(A) float (B) int (C) double (D) string	Area of a mangle Acae	(A) lable (B) la (C) lb (D) lbl					
12	exe is produced by	12	Variables name cannot begin with					
	(A) Loader (B) Interpreter	aka	(A) Number (B) Uppercase (C) Lowerence (D) Undergoere					
12	(C) Linker (D) Debugger The number of bytes used by fleet data tyme in	13	(C) Lowercase (D) Underscore The long data type in VB occupies bytes					
13	The number of bytes used by float data type in C-language is	13	(A) 1 (B) 2 (C) 4 (D) 8					
	(A) 1 (B) 2 (C) 3 (D) 4							
14	Which of the following operator has lowest	14	A loop within a loop is called					
	precedence?		(A) Nested (B) Complex (C) Outer (D) Sentinel					
و در	(A) = (B) + (C) * (D) ()							
15	If int $a = 5$ , then the statement	15	(A) Do while (B) While word					
	printf (" % 4 d", a) will display		<ul><li>(A) Do while</li><li>(B) While wend</li><li>(C) Do until</li><li>(D) Do loop while</li></ul>					
	(A) [] 5[]] (B) 5[][] (C) [][] 5 (D) "5"							

## COMPUTER SCIENCE

# 12<sup>th</sup> CLASS – 1<sup>st</sup> Annual 2024 <u>SUBJECTIVE</u> SECTION-I

TIME: 2.10 HOURS

MARKS: 60

## MS ACCESS

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

 $6 \times 2 = 12$ 

- (i) Define record with example
- (ii) What is Alternate key?
- (iii) How many attributes and records are contained in the following relation?

Stud. No	Stud. Name	Gender	DOB
641	Ali	Male	12/01/2005
642	Taha	Male	29/05/2007

- (iv) Define relationship
- (v) What is the purpose of database design process?
- (vi) What is homonym?
- (vii) What is MS Access?
- (viii) Write the use of input mask?
- (ix) Why are sub form used?

## QUESTION NO. 3 Write short answers to any Six (6) of the following questions

 $6 \times 2 = 12$ 

## C-Language

- (i) What are standard identifiers?
- (ii) Convert the expression  $A = PiR^2$  in C-language expression
- (iii) If x = 2 give output of following statement
   Printf("%d",++x);
   Printf("\n%d",x++);
- (iv) Write syntax of printf() function
- (v) Indicate the errors in following code;

int main (void) {
 const int pi = 3.1415;

int R:
PRINTF( " % f " φi\*R \* R);

}

(vi) What is the output of following code

int x = 32;

int y = 4;

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

(vii) Indicate errors in the following code;

int x, y;

0=x=y;

x+++;

printf (' % d', x + y);

- (viii) Define a stream in C-Language
- (ix) Differentiate between "w" and "w+" modes to open a file in C-Language

## OR <u>Visual Basic</u>

- (i) Write the purpose of project explorer window
- (ii) Visual basic is known as event driven programing language, why?
- (iii) What is the purpose of option explicit statement?
- in visual basic
- (v) What are intrinsic controls?
- (vi) Why we use a label control?
- (vii) What is difference between linking and embeading?
- (viii) Write the purpose of "Large change" and "Small change" properties of scroll bar
- (ix) What is the purpose of "passwordchar" property of text box?



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

 $6 \times 2 = 12$ 

## C-Language

- (i) How are instructions executed in sequential structure?
- (ii) Predict the output of the following
   int price = 19;
   if (price ! = 10)
   printf (" price ");
- (iii) Define loop
- (iv) Convert the following do while loop into for loop
   int c = 2;
   do
   printf ("%d",c);
   while (c++<=5);</pre>
- (v) Predict the output of the following code segment int x = 5, y = 3; do

  { x = x \* 2; y = y + 2;
  }

  while (y < 10);
- printf("%d",x);
  (vi) List any two benefits of using function
- (vii) Define function body
- (viii) How long the global variable exist in a memory?
- (ix) Compare local and global variable

## OR

## Visual Basic

- (i) Define constant
- (ii) Write down two rules to give name to the variable
- (iii) Why is it important to declare variable before use?
- (iv) Distinguish between IF-Then-Else and Select-Case statement
- (v) In Visual Basic how select case help you in coding
- (vi) How nested IF is used in VB
- (vii) Distinguish between counter control and sentinel control loop
- (viii) Give an example of nested loop
- (ix) Distinguish between While-wend and Do-while loop



SECTION-Y (MS - ACCESS)

Note: Attempt any one question

Q.5. What are database anomalies Discuss its three types

Q.6. Explain any four data types available in MS-Access

 $(2 \times 8) = 16$ 

## SECTION-III

Note: Attempt any two questions.

## C-Language

- Q.7. What is programming language? Discuss two main categories of programming languages
- Q.8. Write an interactive program that contains an if statement that may be used to compute the area of circle (area =  $\pi r^2$ ) or the circumference of circle (circumference =  $2 \pi r$ ) after prompting the user to type the first character of the formula name (A or C)
- Q.9. Write a program in C-Language that display product of all even numbers between 2 to 20 by using loop

## OR

## Visual Basic

- Q.7. What is programming language? Discuss two main categories of programming languages
- Q.8. Write an interactive program that contains an if statement that may be used to compute the area of circle (area =  $\pi r^2$ ) or the circumference of circle (circumference =  $2 \pi r$ ) after prompting the user to type the first character of the formula name (A or C)
- Q.9. Write a program in VB that display product of all even numbers between 2 to 20 by using loop

5

#### COMPUTER SCIENCE

PAPER CODE - 8837 12<sup>th</sup> CLASS - 1<sup>st</sup> Annual 2023

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.

pakcity.org QUESTION'NO. 1 MS - ACCESS The process of arranging data in a logical sequence. 1 (B) Summarizing (C) Data computing (D) Classifying (A) Sorting Database development process involve mapping of conceptual data model into. 2 (A) Hierarchical data model (B) Implementation model (C) Network data model (D) Object Oriented data model What criteria would you use to find a four characters name that starts with H ? 3 (C) H??? (D) H### (B) H?4 4 A form that contains a sub-form is called. (B) Main form (D) Report (C) Ouerv Which of the following key possess the uniqueness property? 5 (D) Candidate key (A) Foreign key (B) Secondary key (C) Sort key Which form of dependency is removed in 3NF? 6 (D) Transitive (A) Function (B) Non function (C) Associative C-LANGUAGE **VISUAL BASIC** In Visual Basic, the example of post test loop is. 7 Which loop structure always executes at once? While loop (B) While -- loop (A) do - while loop (B) while loop (C)Do - end loop (D) For - loop (C) do – end loop (D) For loop Which control combines the features of a textbox What does a compound condition use to join 8 two conditions? and list box? (A) Relational operator(B) Relational results (A) Scrollbar (B) Check box (D) Logical operators (C) Radio Button (D) Combo box (C) Logical result A loop which never ends is called. 9 Which loop is also called? (B) Nested loop (B) Counter loop (A) Wend loop (A) Inner loop (C) Conditional loop (D) Continuous loop (C) Infinite loop (D) Continuous loop The output of the compiler is called. The name of program that translates VB code to 10 10 (A) Object Code (B) Source Code object code. (C) Linked Code (D) Library Code (A) Interpreter (B) Assembler (C) Debugger (D) Error A memory location with same data that can be 11 A memory location with same data that can be 11 changed is called as. changed is called as (A) Constant (B) Named constant (A) Constant (B) Named Constant (C) Address (D) Variable (C) Address (D) Variable Which of the following format specifier is Which of the following is not Visual Basic 12 12 used for character data type? Control? (A) % d (B) % s (A) Command Button (B) Forms (D) Text editor (C) % c (D) % o (C) Variable Which keyword is not used in switch The naming prefix for a label control is. 13 13 statement? (A) \lbl (B) *lah* (C) *l* (D) The (A) If (B) Switch (C) Case (D) Default 14 The case block ends with. 14 The select case end with. (A) End case (B) End select (A) End case (B) Case End (C) End select (D) Case only (C) Break (D) Case end 15 The loop which never ends is called. 15 The keyword that marks the end of Do - loop (A) Infinite loop (B) Running loop structure is. (C) Continuous loop (D) Nested loop (B) Exit - Do (A) End - Do (C) End While (D) Loop

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SEQUENCE -4 (PAPER CODE - 8837)

#### DG Khan Board-2023 12th CLASS - 1st Annual 2023

**COMPUTER SCIENCE** 

SUBJECTIVE SECTION-I TIME: 2 HRS 10 MINUTES

MARKS: 60

#### MS-ACCESS QUESTION NO. 2 Write short answers any Six (6) of the following 6x2 = 12What is the purpose of database integrity? List any two properties of relation (ii) (iii) Define composite key (iv) When is a relation in second normal form? (v) Define synonym (vi) What is database wizard? (viii) Define filter . (vii) What is the use of select query? (ix) What is a from? QUESTION NO. 3 Write short answers any Six (6) of the following 6x2 = 12C-LANGUAGE OR VISUAL BASIC Write four advantages of Visual Programming. (i) Write use of define directive. (i) Why logical error are most difficult to find? (ii) What is tool box? (ii) (iii) What is assembly language? (iii) Write application development process in VB. (iv) Define preprocessor directive. (iv) What is the use of text box? (v) Why C is known as strongly typed language? (v) Differentiate between property and method. (vi) Write C statement to declare and initialize (vi) Write use of const keyword. Character variable ch. (vii) Trace error from the following (vii) What is option explicit? # include < stdio.h > void main (); { int x = 5; printf (% c, x);} (viii) Write syntax of declaring variable in VB. (viii) Trace output printf ("Pakistan \ t is \ n my \ t homeland"); (ix) Differentiate between implicit and explicit declaration Define array in C language. QUESTION NO. 4 Write short answers any Six (6) of the following 6x2 = 12C-LANGUAGE OR VISUAL BASIC Discuss the role of '\t'. (1) Define keyword . (ii) Write the output of the following code (ii) Describe the function of option Explicit. float p = 3.1234; printf(" % 15.2 f ", p); (iii) Define "getch "function. (iii) What is string Data type? (iv) Convert the following sentence into Cexpression. (iv) Define Literal constant. "Age is greater than equal to 20" (v) Define conditional operator (v) What is Message Box ? (vi) Write the output of the following code (vi) Define option Button . if(100 > 50)printf (" ONE "); else printf ("TWO"); (vii) What is while loop? (vii) Enlist important methods of List Box . (viii) Convert following code into while loop . (viii) Describe Combo Box control . for (i = 10; i < = 15; i ++)printf ("Hello"); (ix) Define Nested loop. What is Timer control? (ix) (MS-ACCESS) SECTION - II 1x8 = 8Note: Attempt any one question. Q.5. Define database model. Describe different types of database models . < Q.6. Explain different components of logical model. SECTION - III Note: Attempt any two question 2x8=16C-LANGUAGE OR VISUAL BASIC Q. 7. What is control structure? Briefly describe the Q. 7. What is control structure? Briefly describe the basic control structures for writing programs. basic control structures for writing programs. Q. 8 Write a program to display the following series Write a program to display the following series using loop . 1 4 9 16 25 using loop . 1 4 9 16 25 Q. 9 Describe the process of writing of function with Q. 9 Describe the process of writing of function with example. example.

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TIME: 20 MINUTES

MARKS: 15

#### **OBJECTIVE**

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	the circles. Cutting or filling two or more circles.	es will	result in zero mark in that question.
QU	JESTION NO. 1		pakcity.org
	MS	-ACC	ESS PARCITY.OIG
1	Which of the following type of file require largest p	process	s time ?
	(A) Sequential file (B) Random file (C) Index	xed sec	quential file (D) Direct access file
2	CREATE command is used to create a.		**************************************
	(A) Table (B) View (C) Repo	ort	(D) Query
3	Database development process involve mapping of		
			data model
			cal data model
4	In relational database, a table is also called a.	orai orii	iodi data inodoi
•	(A) tuple (B) relation (C) file		(D) schema
5	A database consists of various components called the		(D) schema
3			(D) Object
,	(A) Tool (B) Properties (C) En	innes	(D) Object
. 6	The data in table is entered in.		
-			t view (D) Layout view
	<u>C-LANGUAGE</u>	OR	VISUAL BASIC
7	C is a	Ph.	(52)
,	(A) High level language (B) Low level language	(G))	VB is a.
			(A) High level language (B) Low level language
8	(C) Assembly language (D) Machine language	15	(C) Assembly language (D) Machine language
0	Void occupy how many bytes in memory	8	The output of the Compiler is called.
	(A) Zero (B) One		(A) Object code (B) Source code
	(C) Two (D) Three	EDU	(C) Direct code (D) Staged code
9	Variables are created in.	9	Variables are created in.
	(A) RAM (B) ROM	74 100 240	(A) RAM (B) ROM
	(C) Hard Disk (D) Cache		(C) Hard Disk (D) Cache
10	Which of the following data type offers the	.10	The diamond in a flow chart.
	highest precision?	pan	(A) Progress (B) Input
	(A) Float (B) Long int		(C) Condition (D) Output
	(C) Long double (D) Unsigned long int.		
11	The function getche () is defined in.	11	Writing programs in Machine language is.
	(A) Stdio.h (B) String.h		(A) Time consuming (B) Easy
	(C) Math.h (D) Conio.h		(C) Complex (D) Complex and time consuming
12	In if statement, false is represented by.	12	In if statement, false is
	(A) 0 (B) 1	12	(A) 0 (B) 1
	(C) 2 (D) 3		(C) 2 (D) 3
13	One execution of a loop is known as a (n)	13	One execution of a loop is known as a (n)
	(A) Cycle (B) Duration	13	(A) Cycle (B) Duration
	(C) Iteration (D) Test		(C) Iteration (D) Test
14	Function prototypes for built-in functions are	14	In Visual Basic, a form is another name for a (n)
	specified in.	14	North Control of the
	(A) Source files (B) Header files		(A) Object (B) Window
	(C) Object files (D) Image files		(C) Property (D) Label
15	A file is stored in.	15	A file is stored in.
,	(A) RAM (B) Hard disk	10	(A) RAM (B) Hard disk

(C) ROM

(D) Cache

(D) Cache

(C) ROM

SECTION-I QUESTION NO. 2 Write short answers any Eight (8) parts of the following DG Khan Board-2022 16 Write any two properties of Normal Distribution If in normal distribution  $\sigma = 2$  find  $\mu_A$ ii Why normal distribution is called symmetrical distribution? iii In normal distribution N(15, 4) what will be value of its median and why? iv What is the role of  $\sigma$  in normal distribution? V vi Define statistical estimation vii What is meant by unbiasedness? viii Define Null hypothesis ix Give two examples of Type II-Error X If  $\bar{x} = 50$   $\mu = 40$   $\sigma = 5$  n = 10 find Z Differentiate between Hardware and Software Xi xii What are two main parts of CPU? 16 QUESTION NO. 3 Write short answers any Eight (8) parts of the following Define sample design What is meant by sampling frame? ii Differentiate between sampling and non-sampling errors iii Define non-probability sampling iv If  $\mu = 5$ ,  $\sigma = 2.4$ , n = 2 and  $\mu = 4$ . Find  $\mu_{\overline{x}}$  and  $\sigma_{\overline{x}}$  for sampling without replacement v vi Compare sampling with and without replacement vii Define the term 'residual' viii Define the method of least squares In regression line y on x, if a = 130 and b = 3.956, calculate the estimate of y for x = 12ix X Define the term 'correlation' State any two properties of correlation coefficient χi xii Discuss the measuring of r = 012 QUESTION NO. 4 Write short answers any Six (6) parts of the following < For two attributes A and B, describe the Yule's co-efficient of association i Define negative association ii Given that (AB) = 55, (A) = 144 and (B) = 384, find the value of n if the attributes A and B are independent iii Write down the formula of Pearson's co-efficient of mean square contingency iv Define historigram Give an example of seasonal variations vi What are the four phases of a business cycle? vii How the normal equations of straight line y a + bx are obtained? viii What is a time series? Give an example ix  $8 \times 3 = 24$ Note: Attempt any Three questions from this section Let  $X \sim N(20, 25)$ , find the area under the normal curve (i) below 30 (ii) above 28 Q. 5(a) Suppose that x is normally distributed with  $\mu = 25$  and  $\sigma = 5$  Find (i) The lower and upper quartiles (b) (ii) The mean deviation Draw all possible samples of size 2 with replacement from the population 1, 4, 6, 8. Q. 6(a) Find Mean and Standard deviation of the sampling distribution of means A random sample of 100 is taken from a population with mean 30 and standard deviation 5. The (b) probability distribution of the parent population is unknown. Find the mean and standard error of the sampling distribution of x If the two sided 100(1 - ∞) % confidence interval based on random sample Q. 7(a) taken from  $X \sim N(\mu, \sigma^2)$  is  $12.18 < \mu < 20.56$  Find  $\bar{x}$  and standard error of  $\bar{x}$ The records of certain hospital showed that the birth of 723 males and 617 females in a certain week (b) Do these figures conform to the hypothesis that the sexes are born in equal proportions? use  $\alpha = 0.02$ Q. 8(a) Fit a straight line Y on X on the following data 22 18 20 X 12 14 16 8 10 12 Y 6 9 11 Also show that  $\Sigma(y - \hat{y}) = 0$ From the information given below  $\Sigma(x-\overline{x})(y-\overline{y}) = 150$  $S_x^2 = 64$ (b) Calculate  $b_{yx}$ ,  $b_{xy}$  and  $r_{xy}$  Show that  $r_{xy} = \sqrt{b_{yx} \times b_{xy}}$ Find the value of  $\chi^2$  (Chi-Square) from the following data Q. 9(a) Intelligent Dull Social Status Brilliant 20 20 60 pakcity.org Upper middle 38 32 70 Middle 23 35 Lower Middle Compute 3-year moving average from the following data (b) 1989 1984 1985 1986 1987 1988 1982 1983 7.9 7.8 8.3 9.3 8.6 7.8 8.1 6.2 Values

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#### COMPUTER SCIENCE

12th CLASS - 12021

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.

	QU	ESTION 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		
L		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		
	0	$(A) \setminus (B) \setminus (C) \setminus (D) $		
	9	The format specifier %f is used for		
	9	(A) Integer (B) Unsigned short (C) Float (D) Unsigned long int		
	10	Select the programming structure that executes program statements in order		
	10	(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) +		
1				

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**SECTION-I** 

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

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

12

C-LANGUAGE Differentiate between preprocessor Why the source code cannot be executed directives and header file directly? What is assembly language? 3 4 Write down the names of logical operators available in C- language 5 List any two data types in C What is keyword? Give an example 6 Predict the output of the following code segment 7 int price = 30; if (price ! = 15) printf (" Price"); 8 Predict the output of the following code segment int a = 9; ENTEN TO PRE if (a % 2 = = 0)printf ("EVEN"); else printf (" Odd");

printf ("cancel") QUESTION NO. 4 Write short answers any Six (6) parts of the following

printf (" OK ") (O

Find errors in the following code segment int a = 20if (a = 10);

else

12

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C-LANGUAGE What is use of print? function? List four types of format specifier 2 3 Define standard input 4 List different types of functions 5 Define global variable Write down types of streams in life handling Write output of following code int x ; x = 1; for (x = 10; x < = 100; x = x + 10)printf (" % d ", x); 8 Write output of following code int n = 10; while (n > = 1) { printf (" Value = % d \ n ", n ); 9 Trace out errors from following code

SECTION-II

						DECARO	11 11
Note:	Attempt an	y ONE	question	from	this	section	M S-ACCESS

for (k = 0, k < = 10, k + +);

printf (" % d " k)

int

	Access any Otto question from this section MS-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

1	tote.	Attempt any 1 wo questions from this section <u>C-LANGUAGE</u>			
	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		

9

#### PAPER CODE - 8831

COMPUTER SCIENCE (NEW COURSE) 12th CLASS - 12019

ACADEMIC SESSION: 2015-2017 TO 2017-2019



TIME: 20 MINUTES

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.

QUESTION NO. 1		
MS-	-ACCI	ESS
Data that causes inconsistency lacks in		
(A) Good data (B) Data redundancy (C) Data i	integri	ty (D) Data anomaly
The columns of a table correspond to;	1 1000	
(A) Table (B) Field (C) Record	(	D) Cell
In an E.R diagram, a rectangle represents		
(A) Entity (B) Attribute (C) Relationship	(D)	Decision
In 3NF, a non-key attribute must not depends on a	. ,	
(A) Non-key attribute (B) Key attribute (C) Com	posite	key (D) Primary key
Microsoft Access saves the database with the exten		
(A) . mdb (B) . msdb (C) . madb (D) . mxd	ls	
In MS Access, find and replace command is found in		
(A) File menu (B) Edit menu (C) Tool (D) Vie		nu
C-LANGUAGE	OR	VISUAL BASIC
The programmer usually enters source code into a	7	Labels, buttons and text boxes are examples of
computer using		00
(A) Compiler (B) Text editor		(A) Procedure (B) Controls
(C) Debugger (D) Linker		(C) Properties (D) Methods
In C-language, variable name(s) cannot begin with	8	The option that forces the declaration of all
a (an)	4	variables is
(A) Number (B) Lower - case letter	10	(A) Dim (B) Option static
(C) Upper-case letter (D) Underscore	NS	(C) Option explicit (D) Option strict
The general form of format specifier for floating	<b>&gt;</b> 9	What is the default color of the comments is code
point value is;		window?
(A) % m.nf (B) m.n %		(A) Green (B) Red
(C) m % .nf (D) m.n%f		(C) Blue (D) Black
Which programming structure makes a comparison	10	The entire select case construct is terminated with.
(A) Relation (B) Repetition	EU	(A) Case Else (B) End if
(C) Decision (D) Sequence		(C) End select (D) Terminate select
Graphical representation of a program is called	11	In a case structure, which is executed if two or
(A) Logical chart (B) Binary chart	4	more cases are true
(C) Flow - chart (D) E- R chart		(A) All matching cases found
	n'	(B) The last matching case found (C) The first matching case found
	be	(D) An error is generated
Semicolon is placed at the end of condition in	12	How many times the following loop will be
(A) do-while loop (B) for loop	12	executed? Do Loop
(C) Hybrid loop (D) while loop		Statements
(C) Hybrid loop (D) while loop	ļ	Until x > 100
	1	(A) As long as $x \le 100$ (B) $x \le 100$ times
		(C) 100 times (D) 101 times
This is a control structure that causes a statement or	13	Which keyword is used to increment or decrement
group of statements to repeat		a counter by a value that you specify?
(A) Decision statement (B) Sequential		(A) Interval (B) Skip
(C) Loop (D) Logical		(C) Step (D) Next
The statement that activates a function is known as	14	If the elements in two arrays are related by their
		subscripts, the arrays are called
(A) Function design (B) Function definition		(A) Dynamic (B) Associated
(C) Function declaration (D) Function call		(C) Static (D) Parallel
In the statement FILE *fp, the * represents	15	The property used to get the number of items
and the second of the second o		stored in a ListBox is
(A) Multiplication (B) Pointer		(A) items (B) Items.count
(C) Argument (D) Sentinel		(C) Number (D) count
114 (Obj) - 12019-60000		SEQUENCE - 1

12th CLASS - 12019

COMPUTER SCIENCE (NEW COURSE)

ACADEMIC SESSION: 2015-2017 TO 2017-2019

SUBJECTIVE SECTION-I TIME: 2.10 HOURS

MARKS: 60

#### MS ACCESS



QUESTION NO. 2 Write short answers to any Six (6) of the following questions

 $6 \times 2 = 12$ 

- (1) Define data inconsistency.
- (2) What is the use of data dictionary?
- (3) How a relation is formed in data Base?
- (4) Why is requirement analysis conducted?
- (5) What do you mean by data Integrity?
- (6) Define referencial Integrity.
- (7) Write any four advantages of IDE.
- (8) Define the term degree of relation.
- (9) Why is a list box used in form?

QUESTION NO. 3 Write short answers to any Six (6) of the following questions

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 $6 \times 2 = 12$ 

#### C-Language

- (1) What is machine language?
- (2) Define the term loading.
- (3) What is expression?
- (4) Write a single C-statement to initialize two integer variables x and y to 0
- (5) Determine the out put int x = 1; print f ("%d", x++);
- (6) Find the errors. float a = 10.02
- (7) Define standard input.
- (8) Write the code to input character value in variable "a."
- (9) Determine the output print f ("\* \n \*\* \n \*\*\* \n");

#### Visual Basic

- (1) What is machine language?
- (2) Define the term loading.
- (3) What is expression?
- (4) Write a single V B statement to initialize two integer variables x and y to 0
- (5) Determine the output.

  Dim x = 1 as Integer

  Msg Box (x + 10)
- (6) Find the errors Dm a = 10.02 as Integer
- (7) Define standard input.
- (8) Write the code to input character value in variable " a "
- (9) Determine the output

Msg Box (" \* " & VbNewLine & " \*\* ")

P.T.O.

#### QUESTION NO. 4 Write short answers to any Six (6) of the following questions

 $6 \times 2 = 12$ 

#### C-Language

- (1) How does a selection structure select a statement to execute?.
- (2) Convert the following conditional expression into if-else statement:

$$x < 0$$
 ?  $v = 31 : z = 21$ ;

(3) Determine the output of following code segment

- (4) Distinguish between break and continue statements used in loops.
- (5) Convert the following code into while loop:

for 
$$(\sin x = 1; x < = 10: x++)$$
  
printf ("loop");

- (6) Draw the flow chart of do...while loop.
- (7) Enlist two types of functions in C.
- (8) What is a function call?
- (9) How is the end of text file indicated?

#### OR <u>Visual Basic</u>

- (1) Which statement terminates Do and For loops early?
- (2) Write down the syntax of Do ... Loop... Until.
- (3) How many times does the following loop execute?

$$N = 10$$
  
Do While  $N > = 10$   
 $N = N - 1$ 

Loop

- (4) Define Upper Bound in an array
- (5) List down any two uses of array
- (6) Why are combo Box controls used?
- (7) What is the purpose of Text property of a button?
- (8) Define context menu. How is it created?
- (9) How are parameters passed by reference ?.

#### SECTION-II (MS - ACCESS)

Note: Attempt any one question

 $(1 \times 8) = 8$ 

- Q.5. Explain any four advantages of DBMS.
- Q.6. What is filter? Discuss different types of filters in MS-Access? (MS-Access)

## SECTION-III

Note: Attempt any two questions.

 $(2 \times 8) = 16$ 

#### C-Language

- Q.7. Explain printf function with suitable examples.
- Q.8. What is "switch" statement. Explain its working with flowchart and example?.
- Q.9. Write: a program in C-language to print the sum of following series.

0 3 6 9 12 15

#### OR Visual Basic

- Q.7. Explain the working of While-wend loop with example
- Q.8. What is "select-case" structure. Explain its working with flow chart and example.
- Q.9. Write a program in Visual Basic to print the sum of following series.

0 3 6 9 12 15

114 (Sub)-12019 -60000

(NEW) 🌉 pakcity.org

PAPER CODE - 8831 (12<sup>th</sup> CLASS - 12018)

### DG Khan Board-2018

TIME: 20 MINUTES

COMPUTER SCIENCE (NEW COURSE)

ACADEMIC SESSION: 2015-2017 TO 2016-2018

**OBJECTIVE** 

MARKS: 15

SEQUENCE - 1

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 pakcity.org MS-ACCESS 1 Duplicate data in multiple data files is called (A) Data Integrity (B) Data Consistency (C) Program dependency (D) Data redundancy 2 The data or information that describes an entity is called (A) Attribute (B) Record (C) Tuple (D) Data Item 3 Which of the following is a one-to-many relations (A) Student – Reg No. (B) Mother – daughter (C) Person – Date of Birth (D) Country – Capital 4 Which form of dependency is removed in 3 NF (Third Normal Form) (B) Transitive (C) Partial (D) Associative (A) Functional 5 In 3 NF (Third Normal Form), a non-key attribute must not depend on a (A) Non-key attributes (B) Key attributes (C) Composite key (D) Sort key Each separate piece of Information stored in a record is called (A) Form (B) Field (C) Table (D) Relation C-LANGUAGE 7 stdio stands for (A) Standard Input output (B) Simple input output (C) String Input output (D) Start Input output VISUAL BASIC OR The prefix for naming a menu item is (A) mnu (B) mnu (C) mne C-LANGUAGE 8 Which is numeric data type with decimal point (A) float (B) int (C) Char (D) long VISUAL BASIC OR (A) 16 (B) 12 (C) 1 (D) 8 How many bytes are occupied by decimal data type in Visual Basic? CLANGUAGE Format specifier is started with symbol 9 (B) & (C) % (D) \* OR VISUAL BASIC Which of the following is valid data type in Visual Basic (A) Array (B) Char (C) Boolean (D) int C-LANGUAGE Which operator in C is called a ternary operator 10 (A) if (B) + +(C) ? (D)() OR VISUAL BASIC To display a message ..... is used (C) msg box () (D) Input box () (A) msg boxes () (B) message box () C-LANGUAGE Relational operators allow you to ....... numbers (A) Add (B) Multiply (C) Compare (D) Divide 11 VISUAL BASIC OR A form that contains a subform is called (A) Form (B) Major Form (C) Main Form (D) Query C-LANGUAGE (A) Complex loop (B) Nested loop (C) Infinite loop (D) Running loop 12 A loop within a loop is called VISUAL BASIC OR A loop that never ends is called (A) Complex loop (B) Infinite loop (C) Running loop (D) Finite loop C-LANGUAGE (C) Hard Disk (D) Cache 13 Globel variables are created in (A) RAM (B) ROM OR VISUAL BASIC A control that is used to display text or to accept user input is (D) Image box (A) text Box (B) Label (C) Buton C-LANGUAGE A function can return ...... value (A) 1 (B) 2 (C) 3 OR VISUAL BASIC Which control combines the characteristics of text box and list box (A) Combo Box (B) Scroll bar (C) Timer (D) Menu box C-LANGUAGE (D) 3 15 In if statement, false is represented by (A) 0 (B) 1 OR VISUAL BASIC Which method is used to add items in a List box (A) Add item (B) Index item (C) Remove item (D) Insert item

114 (Obi) -12018-60000 (NEW)

(12th CLASS - 12018) COMPUTER SCIENCE (NEW COURSE) SUBJECTIVE TIME: 2.10 HOURS ACADEMIC SESSION: 2015 - 2017 TO 2016-2018 SECTION-I MARKS: 60 MS ACCESS QUESTION NO. 2 Write short answers to any Six (6) of the following questions  $6 \times 2 = 12$ (1) What is the use of data dictionary? (2) Differentiate between database and database Management System (3) Write any two responsibilities of a database administrator (4) State the purpose of feasibility study (5) Define Synonym (6) What are the database anomalies? (7) Write any two advantages of forms (8) How does an input mask help the user to enter data? (9) Why a list box is used in forms? QUESTION NO. 3 Write short answers to any Six (6) of the following questions  $6 \times 2 = 12$ C-Language (1) What is main function used in C program? (2) What are run-time errors? (3) Define source code (4) Define variable initialization with syntax (5) Differentiate between unary and binary operator (6) What is the output of following code? int n=3, m=5; printf ( " % d \n % d \t % d ", n/m, m/n, n % m); (7) List three names of functions used for character input. (8) What is the output of following code? (9) Find Errors in the following code Char Ch1 = 'A': Void main () Ch1 += 2;Printf("% C", Ch1); floatin = 3.5, n2 = 4.1; prints " % d \ t % d ", n1, n2); Visual Basic OR (1) What is compiler? (2) What is code window? (3) Why we use three-letter prefix with the name of control? (4) What is an assignment operator? (5) Predict the output of following code WW 1 1 9 E. Dim n, m As integer Dim x,y As integer n = 3m = 5 $x = n \mod m$  $y = m \mod n$ Print x mod y (6) Define select-case statement What is condition? (8) Which statement terminate Do and For loop early? What is nested loop? QUESTION NO. 4 Write short answers to any Six (6) of the following questions  $6 \times 2 = 12$ C-Language (1) Write two advantages of switch statement in C language (2) Write the error from following code: (3) Write the output of the following code Void main(); int x, y, z=1;  $\{$  int x = 10;x = y = 3; if(x = = 10) $if (x = = y) \parallel (y < z)$ x + +printf ("Yes"); else x -- ; printf ("NO"); (4) Define infinite loop (5) Write the output of the following code (6) Convert the following code into while loop int m=5; int n = 5, f = 1; while (m < 10)for  $(i = 1; i \le n; i + +)$ f=f\*i; printf (" % d \n ", m); pakcity.org m=m+2; (7) What is function call? (8) Describe built-in function

(9) How is a file opened in C?

OR Visual Basic		
(1) Define algorithm	14	
(2) Write error from following code	(3) Write output of following	code
Dim M As string	Dim N As Integer	
If $M = 0$	FOR $N = 1$ to 10 ste	p 3
Msg Box "Zero"	Pint N	
Else	Next	
Msg Box "Not Zero"		
(4) State the purpose of message box	(5) Write the output of follow	ving
(6) Convert the following code into while loop	Dim M as Integer	
Dim i, n, f As Integer	M = 5	
n = 5	M = M * 10	
f = 1	Print M	
FOR $i = 1$ to n	4 *************************************	
f = f * i		
Next		
(7) Define implicit declaration		
(8) Differentiate between For Next loop and While	wend	
(9) Describe breakpoint in VB.	wengloop	
() Describe breakpoint in VB.		
SECTION-IL MS - AC	CCESS)	
SECTION-ANS-AC	CESS	
Attempt any one question		
Accompletely one question		
Write down the properties of a relation in detail		2+2+2+2
Define report. Discuss its different types	3011	2+3+3
EDUCATION OF THE PROPERTY OF THE PARTY	TAI SE	213.3
SECTION-III		
Attempt any two questions.		
C-Language City Of	ra d	
What is debugging? How many types of errors may occur in writ	ting program, explain in detail	2+2+2+2
OR Visual Basic	& b &	
What is debugging? Briefly explain the types of errors may occu	r in a code	2+2+2+2
the state of the s	2 0000	2.2.2.2
C-Language		
Write a program that inputs a number and finds whether it is even	or odd	8
OR Visual Basic	V. V.	•
Write a program that inputs a number and finds whether it is ever	or odd	8
the property of the second sec	. 0. 000	
C-Language		
Define do-while loop. Explain its working with the help of Exam	nle and Flowchart	2+2+2+2
OR Visual Basic	pro una 110 worthing	2.2.2.2
Define do-while loop. Explain its working with the help of Exam	nle and Flowchart	2+2+2+2
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