Bahawalpur Board-2024

Computer Science	(A)	L.K.No. 1469	Paper Code No. 8831
Paper II	(Objective Type)	Inter (Ist – A – Exam – 2024)	
Time :	20 Minutes	Inter (Part - II)	Session (2020 – 22) to (2022 – 24)
Marks :	15		

(Important Instructions)

Note : Q.No.1 from Sr.No.7 to Sr.No.15 is of two types : (i) C – Language (ii) Visual Basic. The candidates are required to attempt any one of them. While Q.No.1 from Sr.No. 1 to Sr.No.6 is compulsory for all candidates.

Note : Four choices A , B , C ,D to each question are given. Which choice is correct fill that circle in front of that Question No. on the Objective Bubble Sheet. Use Marker or Pen to fill the circles. Cutting or filling two or more circles will result in Zero Mark in that Question.

MS - ACCESS

pakcity.org

Q.No.1				
(1)	Which of the following Database model is often referred to as an Inverted Tree :
	(●) Hierarchical (B) Network (C) Relational (D) Object Oriented
(2)	Which of the following is also known as Control Key :
	(●) Sort Key (B) Composite Key (C) Primary Key (D) Candidate Key
(3)	Which of the following symbol is NOT used in ER – Diagram :
	(A) Rectangle (B) Oval (C) Diamond (●) Triangle
(4)	The goal of Normalization is to : (A) Increase No. of Relations (B) Increase Redundancy
	(●) Get Stable Data Structure (D) Remove Constraints
(5)	The output of the query is in the form of : (A) Form (B) Report (C) Graph (●) Table
(6)	How many table views are available in MS – Access : (A) 1 (●) 2 (C) 3 (D) 4

C - Language

(7)	Which places an executable file in memory :
	(A) Compiler (●) Linker (C) Loader (D) Debugger
(8)	Which of the following is NOT a reserved word :
	(●) Goto (B) While (C) For (D) Float
(9)	Format Specifier used for integer data type is : (A) % c (●) % d (C) % f (D) % s
(10)	Escape Sequence for backslash is : (A) \ (B) \ b (●) \\ (D) \t
(11)	Conditional Operator gives the result for 'a' != 97 ? 10 : 20 ;
	(A) 10 (●) 20 (C) 30 (D) 107
(12)	Which of the following is NOT valid case statement in switch :
	(A) Case O : (B) Case – 1 : (●) Case 'A' : (D) Case "A" :
(13)	A loop whose condition never becomes false is called :
	(●) Infinite Loop (B) Continuous Loop (C) Running Loop (D) Fast Loop
(14)	The Scope of a variable refers to its :
	(A) Name (●) Accessibility (C) Length (D) Data Type
(15)	If a file is closed by fclose ( ) function properly , then fclose ( ) function return :
	(A) NULL (B) 1 (●) 0 (D) – 1

Visual Basic

(7)	Which places an executable file in memory :
	(A) Compiler (B) Linker (C) Loader (D) Debugger
(8)	Which of the following is a reserved word :
	(A) Int (B) IF (C) For (D) While
(9)	You can enter data in a control only when it has :
	(A) Tab Order (B) Focus (C) Mask (D) Color
(10)	Methods Characterize an object's :
	(A) Style (B) Appearance (C) Behavior (D) Value
(11)	The naming Prefix for a label control is :
	(A) Lab (B) lbl (C) lbe (D) l
(12)	Which method removes a form from the screen and from memory :
	(A) Show (B) Hide (C) Load (D) Unload
(13)	A Loop whose Condition never becomes false is called :
	(A) Infinite Loop (B) Continuous Loop (C) Running Loop (D) Fast Loop
(14)	The Scope of a variable refers to its :
	(A) Name (B) Accessibility (C) Length (D) Data Type
(15)	The Trigger the timer event once every second , set the interval properly to :
	(A) 10 (B) 100 (C) 1000 (D) 10000

Roll No.	L.K.No. 1469 -25000	Inter (Part – II)	Session (2020 – 22) to (2022 – 24)
Computer Science (Subjective)	Inter (Iˢᵗ – A – Exam – 2024)		Time 2 : 10 Hours Marks : 60

Note : Section – I (MS – ACCESS) is compulsory for all candidates and candidates have to attempt any (06) parts from Q.No.2. Attempt any (6 – 6) parts of Q.No.3 and Q.No.4 that consists of two parts i – e C – Language and Visual Basic. The Candidates have to attempt any one from these i – e either C – Language or Visual Basic. While attempt Section – II and Section III according to given instructions.

Section - I   (MS – ACCESS)   18 x 2 = 36

Q.No.2	(i)	Define Database.
	(ii)	From the information given below , construct a table and find a suitable primary key PHYSICIAN (Ph_Code , Ph _ Name , Address , Mobile No , Age).
	(iii)	What is an Entity?
	(iv)	Describe views in Database.
	(v)	Write the names of any two Data Distribution Strategies.
	(vi)	Define Functional Dependency.
	(vii)	What are Macros in MS Access?
	(viii)	Differentiate between Sorting and Filtering.
	(ix)	Describe Columnar Reports.

(C - Language)

Q.No.3	(i)	Define Type Casting and its Types.	(ii)	Write the following expression in C language : $n = 5mz^2$
	(iii)	Find errors in the following Code : int a ; b ; a = 10 ; b = 5 ; printf ("%d" ; a + b);	(iv)	Predict the output of the following Code Segment : printf (" I \ t\ n LOVE \ t\t\t\n PAKISTAN ");
	(v)	Determine the output of the following Code Segment : int x , y , sum ; x = 5 ; y = 10 ; sum = x+ y ; printf (" Sum = % d " , Sum);	(vi)	Find errors in the following Code segment : # include (Stdio . h) main ( ) { char a = ' b ' ; print (" % C " , a) ; }
	(vii)	Name Four Escape character provided by C.	(viii)	Define Text Stream .
	(ix)	What is a String?		

(Visual Basic)

Q.No.3	(i)	Write the purpose of the statement " Unload me " .	(ii)	Describe Code Window.
	(iii)	Differentiate between Run Time and Break Time.	(iv)	How are controls placed on a form in Visual Basic ?
	(v)	What are Keyboard Events in V. B ?	(vi)	Define Label Control.
	(vii)	What is the Concept of methods in Visual Basic ?	(viii)	What is the purpose of " name " property of Control ?
	(ix)	How is picture removed at Run Time?		

Q.No.4	(i)	Convert the following loop into for loop :
		
		i = 10 ;
		while (i <= 20)
		{
		printf (" Loop ") ;
		i + + ;
		}
			(ii)	What is the Output of the following Code , when a = 1000 and b = 5000
				
				If (a > b)
				printf ("a is larger ") ;
				else
				printf (" b is larger or equal ") ;

	(iii)	Define the purpose of Goto Statement.	(iv)	Briefly describe the Selection Structure.

	(v)	What is the output of the following Code :
		
		x = 7 ;
		While (x <= 15)
		{
		printf (" % d " , x) ;
		x + + ;
		}
			(vi)	Define the role of Local Variable .

	(vii)	What is User – Defined Function ?	(viii)	Discuss any two benefits of Function.
	(ix)	Describe the role of Function Call .		

(Visual Basic)

Q.No.4	(i)	Describe the function of Input Box.		
	(ii)	What is Lost Focus?	(iii)	Discuss the advantage of Concatenation.
	(iv)	What is Logical Operator?	(v)	When should you use FOR….NEXT Loop?
	(vi)	Draw flow chart of While … Wend.	(vii)	Write the Syntax of do loop while .
	(viii)	Write output of following Code Segment : m = 1 do Print m * 2 m + + loop while m <= 5	(ix)	Which statement terminate do and for loop early?

Section II (MS – ACCESS)

Note : Attempt any one of the following questions.

Q.No.5	What is Database ? Discuss different types of Database Models.	(08)
Q.No.6	What are Field Properties ? Define with example any three field properties of a table . 2+2+2+2=	(08)

Section III

Note : Attempt any two questions either from " C - Language or Visual Basic ".

C - Language

Q.No.7	What steps C.P.U takes to execute language C-Program? Briefly describe each.	(08)
Q.No.8	Write a Program in C Language that inputs temperature and displays a message according to following data :	(08)

Temperature	Message
Greater than 35	Hot Day
Between 25 and 35 (inclusive)	Pleasant Day
Less than 25	Cool Day

Q.No.9	Write a Program that inputs a number and Prints its Factorial.	(08)

Visual Basic

Q.No.7	Describe Various Data Types available in Visual Basic.	(08)
Q.No.8	Write a Program in V . B that inputs temperature and displays a message according to following data:	(08)

Temperature	Message
Greater than 35	Hot Day
Between 25 and 35 (inclusive)	Pleasant Day
Less than 25	Cool Day

Q.No.9	Write a Program that inputs a number and Prints its Factorial.	(08)

Paper	II	(Objective Type)	(Ist – A – Exam – 2023)	
Time	:	20 Minutes	Inter (Part - II)	Session (2019 – 21) to (2021 – 23)
Marks	:	15	**Bahawalpur Board-2023**	

(Important Instructions)

Note : Q.No.1 from Sr.No.7 to Sr.No.15 is of two types : (i) C – Language (ii) Visual Basic. The candidates are required to attempt any one of them. While Q.No.1 from Sr.No. 1 to Sr.No.6 is compulsory for all candidates.

Note : Four possible choices A , B , C ,D to each question are given. Which choice is correct fill that circle in front of that Question No. Use Marker or Pen to fill the circles. Cutting or filling two or more circles will result in Zero Mark in that Question.

MS - ACCESS

Q.No.1		
(1)	In 2NF , which form of dependency is removed :	(A) Partial Functional (B) Non – Functional (C) Associative (D) Transitive
(2)	The output of a Query is in the form of :	(A) Form (B) Query (C) Table (D) Macros
(3)	An Attribute is also known as :	(A) Record (B) Row (C) Field (D) Relation
(4)	Which file is used to store information that remains constant for a long time :	(A) Data File (B) Master File (C) Transaction File (D) Backup File
(5)	To find all names start with F , from Table , criteria is :	(A) Like " F ? " (B) Like " F – " (C) Like " F # " (D) Like " F * "
(6)	Which of the following is used to associate entities with one another :	(A) Entity (B) Attribute (C) Relationship (D) Relation

pakcity.org

C - Language

(7)	Which of the given is a Valid Character Constant :	(A) P (B) ' @ ' (C) " C " (D) =
(8)	The number of digits after a decimal point is called :	(A) Significance (B) Range (C) Precision (D) Scope
(9)	In which loop , initialization is the part of its syntax :	(A) for (B) do - while (C) while loop (D) for each
(10)	What is the variable that is used by a function to receive an argument :	(A) Expression (B) Parameter (C) Constant (D) Function
(11)	The escape sequence begins with :	(A) { (B) # (C) * (D) \
(12)	In C – Language int is :	(A) Special Word (B) Keyword (C) Cut Word (D) First Word
(13)	Which Programming Structure executes Program Statements in an order :	(A) Sequence (B) Relation (C) Decision (D) Repetition
(14)	Conditional Operator is an alternate of :	(A) If (B) If - else (C) Nested If (D) If – Else – If
(15)	The number of Bytes used by int data type in C is :	(A) 2 (B) 8 (C) 12 (D) 16

Visual Basic

(7)	A string literal must be enclosed in :	(A) { } (B) " " (C) ( ) (D) ' '
(8)	A Project File is saved with the given extension :	(A) .frm (B) .bmp (C) .vbp (D) .frx
(9)	Which of the following loop is also known as Counter Loop :	(A) For Next (B) While (C) Do – While (D) Do – Loop
(10)	What is the variable that is used by a function to receive an argument :	(A) Expression (B) Parameter (C) Constant (D) Function
(11)	Which Events occurred after a form has closed :	(A) Shut Down (B) End Close (C) Form Opening (D) Form Closed
(12)	Which method is used to delete an item from the list box :	(A) Add Item (B) Remove Item (C) Clear Item (D) Erase Item
(13)	Which of the following reverse the Boolean Value of a Relational Expression :	(A) NOT (B) AND (C) OR (D) BUT
(14)	Which of the given is not a Visual Basic Data Type :	(A) Byte (B) Register (C) Long (D) Integer
(15)	The number of bytes used by integer data type in V.B. is :	(A) 2 (B) 8 (C) 12 (D) 16

Computer Science (Subjective)	1st – A – E am – 2023

Note : Section – I (MS – ACCESS) is compulsory for all candidates and candidates have to attempt any (06) parts from Q.No.2. Attempt any (6 – 6) parts of Q.No.3 and Q.No.4 that consists of two parts i – e C – Language and Visual Basic. The Candidates have two attempt any one from these i – e either C – Language or Visual Basic. While attempt Section – II and Section III according to given instructions.

Section - I (MS – ACCESS)   18 x 2 = 36

Q.No.2	(i)	What do you mean by File Organization?
	(ii)	Define Candidate Key.
	(iii)	Write any two important characteristics of Primary Key.
	(iv)	What is meant by Entity Integrity ?
	(v)	What are Database Anomalies ?
	(vi)	Define Query.
	(vii)	Define the term Degree of a Relation.
	(viii)	What is the use of Input Mask ?
	(ix)	Differentiate between Form and Report.

(C - Language)

Q.No.3	(i)	What do you mean by Machine Independence?	(ii)	Write short cut key for saving and compiling a C Program.
	(iii)	Define Assembly Language.	(iv)	What is main Function ?
	(v)	What is Garbage Value ?	(vi)	Why it is important to Close a File and how a file is closed ?
	(vii)	Trace Output : void main ( ) { Int a = 5 ; a * = 2 ; Printf (" % d " , a) ; }	(viii)	Trace Errors in the following : Char ch = a ; Scanf (" % d , ch) ;
	(ix)	Write C Statement to declare Integer Variable x and assign any value to x .		

(Visual Basic)

Q.No.3	(i)	Define Event Driven Programming.	(ii)	List different types of Property Values.
	(iii)	Differentiate between Unload and terminate event of Form.	(iv)	What is Natural Hierarchy of Operations in Numeric Expression ?
	(v)	What are Symbolic Constant ?	(vi)	How Concatenation is performed in V.B.?
	(vii)	Write purpose of Const Statement.	(viii)	What is the purpose of Int Function?
	(ix)	How Message Box can be used to display error messages ?		

(C - Language)

Q.No.4	(i)	Define " Clrscr " function.	(ii)	Define Sentinel Loop.
	(iii)	Write the output of the following code : Float p = 79 . 23 ; Printf (" % 10 . 1 f " , p) ;	(iv)	Convert the following sentence into C Expression : "marks are greater than 70 and less than 80 "
	(v)	Discuss the role of " \ b ".	(vi)	Define Control Structure.

	(vii)	Convert the following loop into do - while loop :
		 i = 1 ;
		 While (i < = 4)
		 {
		 Printf (" World ") ;
		 i + + ;
		 }
			(viii)	Write the output of the following code :
				
				 If (50 < 20)
				 Printf (" ABC ") ;
				
				 Printf (" DEF ") ;

	(ix)	What is For Loop ?		

(Visual Basic)

Q.No.4	(i)	Describe the role of Variant Data Type.		
	(ii)	What is Variable Initialization?	(iii)	Define Keywords.
	(iv)	Differentiate between Literal and Symbolic Constant.	(v)	Enlist different properties of Combo Box Control.
	(vi)	What is List Box Control?	(vii)	Define Timer Control.
	(viii)	What is Check Box Control ?	(ix)	Discuss the role of Option Explicit.

Section II (MS – ACCESS) Note : Attempt any one of the following questions.

Q.No.5	Discuss different objectives of DBMS.	(08)
Q.No.6	What is Physical Database Design ? Discuss the major inputs to physical design.	(08)

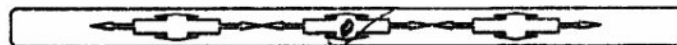**Section III** Note : Attempt any two questions either from " C - Language or Visual Basic "

C - Language

Q.No.7	Explain Switch Statement with the help of a Program. Also write its syntax and draw Flow Chart.	(08)
Q.No.8	Write a Program in C to display the following series using loop : 0 2 4 6 8 10 12 14 16	(08)
Q.No.9	What is Local Variable ? Describe its syntax , lifetime and scope in C Language.	(08)

Visual Basic

Q.No.7	Explain Select --- Case Structure with the help of a Program . Also write its Syntax and draw Flow Chart.	(08)
Q.No.8	Write a Program in V.B. to display the following series using loop : 0 2 4 6 8 10 12 14 16	(08)
Q.No.9	What is Local Variable ? Describe its syntax , lifetime and scope in VB Language.	(08)

(Important Instructions)

Note : Q.No.1 from Sr.No.7 to Sr.No.15 is of two types : (I) C – Language (II) Visual Basic. The candidates are required to attempt any one of them. While Q.No.1 from Sr.No. 1 to Sr.No.6 is compulsory for all candidates.

Note : Four possible choices A , B , C ,D to each question are given. Which choice is correct fill that circle in front of that Question No. Use Marker or Pen to fill the circles. Cutting or filling two or more circles will result in Zero Mark in that Question.

MS - ACCESS

pakcity.org

Q.No.1		
(1)	In a Relational Database , a single piece of information is called :	(A) Record (B) Row (C) Field (D) Entity
(2)	Which of the following object is used to retrieve data from database and present in a formatted way :	(A) Report (B) Form (C) Table (D) Query
(3)	Two Different names are used for same information is known as :	(A) Mutually Exclusive (B) Redundant (C) Synonyms (D) Homonyms
(4)	In an ER diagram , a Rectangle represents : (A) Entity (B) Optional One (C) Relationship (D) Attribute
(5)	A Table must have : (A) Composite Key (B) Primary Key (C) Secondary Key (D) Sort Key
(6)	Storing and Retrieval of Data is related to : (A) Data Capturing (B) Data Manipulation (C) Data Sorting (D) Managing the Output Results

C - Language

(7)	The fopen ( ) function uses :	(A) 01 Parameter (B) 02 Parameters (C) 03 Parameters (D) 04 Parameters
(8)	The process of sending an argument to a function is called :	(A) Filtering (B) Delivering (C) Throwing (D) Passing
(9)	How many types of Loop Structure are available in C - Language : (A) 3 (B) 6 (C) 9 (D) 12
(10)	In C – Language , (p > = q) is equivalent to : (A) p < q (B) ! (p< q) (C) p == q (D) p ! = q
(11)	The general form of Format Specifier for Floating Point Value is : (A) % m . nf (B) m . n % f (C) m % n . f (D) m % nf
(12)	Single Line Comments start with : (A) # (B) */ (C) /* (D) //
(13)	In C – Language , the symbol " = " represents : (A) Assignment (B) Address (C) Comparison (D) Decision
(14)	The Semi Colon is used in C – Program to : (A) Terminate a C Statement (B) Compile a C – Statement (C) Start a C – Statement (D) Execute a C - Statement
(15)	C - Language is a : (A) Low Level Language (B) Assembly Language (C) High Level Language (D) Machine Language

Visual Basic

(7)	Which Form Property will put text in the title bar of the Form :	(A) Title (B) Caption (C) Border Text (D) Header
(8)	The naming prefix for a label control is : (A) lab (B) lbe (C) bel (D) lbl
(9)	The keyword that marks the end of For --- Next structure is : (A) Next (B) Do (C) Until (D) End
(10)	In if statement , false is represented by : (A) 0 (B) 1 (C) 2 (D) 3
(11)	The Rectangle Symbol in a Flowchart indicates : (A) Process (B) Condition (C) Input (D) Output
(12)	Visual Basic is a product of : (A) Sun System (B) IBM (C) Hewlett (D) Microsoft
(13)	In V.B., Textbox is a : (A) Control (B) Project (C) Label (D) Form
(14)	Which one is not a High Level Language : (A) Machine (B) Java (C) Cobol (D) C++
(15)	Which shortcut key is used to save a Form : (A) Ctrl + O (B) Ctrl + F5 (C) Ctrl + S (D) Ctrl + F2

Roll No.		L.K.No. 1313	Session (2018 – 20) to (2020 – 22)	Inter(Part – II)
		– 15000		
Computer Science (Subjective)		Inter – A – 2022	Time 2 : 10 Hours Marks : 60	

Note : Section – I (MS – ACCESS) is compulsory for all candidates and candidates have to attempt any (06) parts from Q.No.2. Attempt any (6 – 6) parts of Q.No.3 and Q.No.4 that consists of two parts i – e C – Language and Visual Basic. The Candidates have two attempt any one from these i – e either C – Language or Visual Basic. While attempt Section – II and Section III according to given instructions.

Section - I   (MS – ACCESS)   18 x 2 = 36

Q.No.2	(i)	Define the term Index.
	(ii)	Distinguish between Primary Key and Foreign Key.
	(iii)	Define Entity or Object.
	(iv)	Identify different components of ER Diagram.
	(v)	What is Referential Integrity ?
	(vi)	Why is Normalization used ?
	(vii)	List any two facilities provided by RDBMS.
	(viii)	Differentiate between Check Box and List Box.
	(ix)	What is Sub – Form ?

(C - Language)

Q.No.3	(i)	Define Delimiters.	(ii)	What are Keywords ? Give example.
	(iii)	Write the use of Define Directives. Also give example.	(iv)	Write following Arithmetic Expression in 'C' $a (b \div 3 * 4 - 6 + 7)$
	(v)	Enlist symbol of Relational Operators.	(vi)	What are Format Specifiers ? Also give example.
	(vii)	What is Assembly Language ?	(viii)	Determine the output of the following code : `int ch = 97 ;` `printf ( " % c " , ch ) ;` `printf ( " % d " , ++ch ) ;`
	(ix)	Find and remove errors in the following code : `char c ,` `getch ( c ) ;`		

(Visual Basic)

Q.No.3	(i)	Define Explorer Window.	(ii)	What is Form ?
	(iii)	Write any two rules for naming controles.	(iv)	Convert the following code in V.B. format $a (b \div 3 * 4 - 6 + 7)$
	(v)	Differentiate between Implicit Declaration and Explicit Declaration.	(vi)	Find and remove errors : `Dim ch as char` `5 = ch`
	(vii)	Enlist any four data types available in V.B.	(viii)	Define user define data type with example.
	(ix)	Define Computer Program.		

(C - Language)

Q.No.4	(i)	Write the syntax of " Switch " Statement.	(ii)	Define Sentinel Loop.

	(iii)	What is the output of the following code :
		if (2 % 3 > = 1)
		printf (" Good ") ;
		else
		printf (" Bad ") ;
			(iv)	Predict the output of the following code segment :
				int x = 10 ;
				for (x = 8 ; x > = 1 ; x --)
				printf (" % d " , x % 2) ;

	(v)	Convert the following code into while loop :
		i = 3 ;
		do
		{
		printf (" % d \ n " , i) ;
		i + = 3 ;
		while (i < = 21) ;
		}
			(vi)	Write two difference between Global and Local Variable

	(vii)	Define Function.	(viii)	What is Function Argument ?
	(ix)	Write the syntax of Closing a File.		

(Visual Basic)

Q.No.4	(i)	What is the difference between ' Value ' Property of Option Button and Value Property of Check Box ?		
	(ii)	Write the advantages of having parent and child form .	(iii)	How many times does the following loop Execute : m = 10 Do while n > = 1 m = m - 1 loop
	(iv)	What is Control Array ?	(v)	Write the general syntax of function definition .
	(vi)	Define Function Argument in V.B.	(vii)	What is the significance of a File Number ?
	(viii)	Define Append Mode.	(ix)	What is Standard Code Module ?

Section II (MS - ACCESS)   Note : Attempt any one of the following questions.

Q.No.5	What are the four major components of the Database System ? Write in detail.	(08)
Q.No.6	What is Table ? Write down various characteristics of Tables.	(08)

Section III   Note : Attempt any two questions either from " C - Language or Visual Basic "

C - Language

Q.No.7	How would you define High Level Language ? Write common characteristics of all High Level Programming Languages.	(08)
Q.No.8	Write a program that input day of week and print name of the day. If user enter 1 it print Monday.	(08)
Q.No.9	What is While Loop ? Explain its working with the help of example, syntax and Flowchart.	(08)

Visual Basic

Q.No.7	How would you define High Level Language ? Write common characteristics of all High Level Programming Languages.	(08)
Q.No.8	Write a program that input week day using input box and display message of day name using message box. If user input 1 then it display Monday.	(08)
Q.No.9	What is Do --- While --- Loop ? Explain its working with the help of a program example, syntax and Flowchart.	(08)

Note : Four possible choices A , B , C , D to each question are given. Which choice 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.

MS - ACCESS

pakcity.org

Q.N.1

(1) A Collection of Related Fields is called :
(A) Characters (B) Records (C) Database (D) File

(2) A Primary Key consists of more than one attribute, is called :
(A) Foreign Key (B) Composite Key (C) Multivalued Key (D) Global Key

(3) In an ER Diagram, a Rectangle represents :
(A) Entity (B) Attribute (C) Relationship (D) Fields

(4) Which form of Dependency is removed in 2nd Normal Form :
(A) Functional (B) Transitive (C) Associative (D) Partial

(5) Which object is used to store Data in Database :
(A) Table (B) Macro (C) Form (D) Report

(6) How many table view are available in Microsoft Access :
(A) 4 (B) 1 (C) 2 (D) 3

C - Language

(7) The Statement written by the programmer is called :
(A) Source Code (B) Object Code (C) Syntax (D) Keyword

(8) A program's syntax errors are detected by :
(A) Compiler (B) Debugger (C) Loader (D) Linker

(9) The Modulus Operator is used for :
(A) Exponent (B) Multiply (C) Division (D) Remainder

(10) Another name for Keyword is :
(A) Reserved Word (B) Special Word (C) Comments (D) Identifier

(11) Format Specifiers starts with symbol : (A) ? (B) % (C) & (D) ✳

(12) The number of Columns used to display a value on the screen is called :
(A) Format Specifier (B) Field Width Specifier (C) Field Format (D) Space Width

(13) Another name for Conditional Operator is :
(A) Ternary Operator (B) Binary Operator (C) Byte (D) Iteration

(14) One Execution of Loop is called : (A) Series (B) Duration (C) Iteration (D) Life Cycle

(15) Global Variables are created in : (A) RAM (B) ROM (C) Hard Disk (D) Cache

Roll No.

Computer Science (Subjective)   1313- 22000   Inter (Part - II)   Session (2017 - 2019) to (2020 - 2022)

Note:

Q.No.2 (i) Enlist properties of Relation.   (ii) Differentiate between Primary Key and Candidate Key.

(iii) Define Relationship with example.   (iv) What is meant by Entity Relationship Diagram (ERD)?

(v) Define Parameter Queries.   (vi) Enlist MS - ACCESS Database major objects.

(vii) What do you know about Microsoft Access? (viii) How will you designate the Primary Key Field?

(ix) What is the difference between Columnar Form and Tabular Form?

pakcity.org

C - Language

Q.No.3 (i) How Executable File (· exe) is created?   (ii) What is Data Type?

(iii) Write about unstructured programming languages. (iv) What is the purpose of Modulus Operator?

(v) Why # include directive is used in C - Language?

(vi) How many bytes are occupied by Long and Double Data Types?

(vii) Find Errors in the following code :

```
int p = 5  q = 15 ;
if ( p > q ) ;
print f ( " q is larger " )
```

(viii) Find output of following code :

```
int K = 8 ;
int m = 7 ;
int z = K < m ? K + + : m + + ;
print f ( " % d ", z ) ;
```

(ix) Trace output of following code :

```
int p , q , r ;
p = 10 ;  q = 3 ;
if ( p % q == 3 )
r = 0 ;
else
r = 1 ;
print f ( " % d " , r ) ;
```

Q.No4 (i) What is the use of getch function?   (ii) Write down the name of four escape sequences.

(iii) Define Local Variable.   (iv) Why is the Ampersand (&) used in Scanf Function?

(v) What is a Function Call?   (vi) Define EOF Marker.

(vii) Determine output of following code :

```
int  i ;
i = 10 ;
while ( i > = 10 ) {
print f ( " % d ", i ) ;
i + + ;
}
```

(viii) Trace out Errors from following code :

```
int count ;
count = 0 ;
while ( i < = 10 ) ;
print f ( " % d " i )
```

(ix) Determine output of following code :

```
for ( i = 1 ; i < = 15 ; i + + )
if  ( i % 2 == 0 )
print f ( " % d " , i ) ;
```

Section - II (MS - ACCESS)

Note : Attempt any one of the following questions.

Q.No.5   What is File? Describe how do we organize files on Storage Media?   (8)

Q.No.6   What is Normalization? Explain Second Normal Form (2NF) with example.   (8)

Section - III

Note : Attempt any two questions. (C - Language)

Q.No.7   What is Program? Explain three types of Programming Errors.   (8)

Q.No.8   Define Control Structure. Briefly describe the basic control structures for writing program.   (8)

Q.No.9   Write a program to print Odd Numbers from 1 to 20 using loop.   (8)

er II (Objective Type) Inter - A - 2019
Allowed : 20 Minutes Inter (Part - II)
mum Marks : 15 Session (2015 - 2017) to (2017 - 19)

New Pattern

Important Instructions

ote. Q.No.1 from Sr. No. 7 to 15 is of two types : - (i) C - Language (ii) Visual Basic. The candidates are required to attempt any one of them . While Q.No.1 from Sr. No. 1 to 6 is compulsory for all candidates.

Four possible choices A , B , C , D to each question are given. Which choice 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.

MS - ACCESS

Which of the following may be a temporary file : (A) Master File (B) Transaction File (C) Backup File (D) Data File

Insert Command is used to insert : (A) A New Record (B) A New Table (C) A View (D) Dependencies

Organizing the Database in Computer Disk Storage is done in : (A) Logical Design (B) Analysis (C) Physical Design (D) Implementation

In 2NF, which form of dependency is removed : (A) Transitive (B) Functional (C) Non - Functional (D) Partial

A Database consists of various components called : (A) Object (B) Tools (C) Properties (D) Entities

Find and Replace Command is found in : (A) File Menu (B) Edit Menu (C) Tool (D) View Menu

C - Language

Void Keyword occupy how many bytes in memory : (A) Three (B) Two (C) One (D) Zero

The expression 0 % 4 has a value equal to : (A) 4 (B) 1 (C) 2 (D) 0

The Escape Sequence for backslash is : (A) \ (B) \ b (C) \\ (D) \ t

The Operators to compare operands and decide if the relation is true or false : (A) Arithmetic Operators (B) Logical Operators (C) Relational Operators (D) Syntax Operators

The Case Block ends with : (A) Break (B) End Select (C) End Case (D) Default

Semi Colon is placed at the end of condition in : (A) While Loop (B) Do -- While -- Loop (C) For -- Loop (D) Wend -- Loop

What will be the final value of b after executing the code ? for (b = 2 ; b < 7 ; b + +) : (A) 2 (B) 5 (C) 7 (D) 9

The statement that activates a function is known as : (A) Function Output (B) Function Definition (C) Function Prototype (D) Function Call

The character used to mark the end of string : (A) \ a (B) \ n (C) /0 (D) \ 0

Visual Basic

Basic was introduced in : (A) 1940 (B) 1950 (C) 1970 (D) 1960

Which is not a V.B. Control : (A) Form (B) Command Button (C) Text Box (D) Variable

A procedure or function that imparts some action to an object : (A) Property (B) Control (C) Method (D) Value

A Project File is saved with the given extension : (A) ·FRM (B) ·VB (C) ·VBP (D) ·FRX

Select Case block ends with : (A) End Select (B) Close Select (C) Break Select (D) Stop Select

The increment in a For — Next Loop can be : (A) One (B) Positive (C) Two (D) Three

The keyword that marks the end of do structure : (A) Do -- Exit (B) End Do (C) Loop (D) Exit Do

If an array has 10 values, what is the upper bound of array : (A) 0 (B) 11 (C) 10 (D) 9

The keyword is used to make a variable visible to all modes : (A) Vision (B) Dim (C) Private (D) Public

-------- ☆☆�%☆☆ ---------

| Computer Science (Subjective) | Inter-A-2019 | New Pattern | Time 2:10 Hrs Marks : 60 |

Section - I (MS - ACCESS) is compulsory for all candidates and candidates have to attempt any (06) parts from Q.No. 2. Attempt any (6-6) parts of Q.No.3 and Q.No.4 that consists of two parts i-e- C-Language and Visual Basic. The candidates have to attempt any one from these - i-e- either C Language or Visual Basic. While attempt Section - II and Section - III according to given instructions.

| Section - I | MS - ACCESS | 18 x 2 = 36 |

No.2 (i) Why is Report Generator used in Database System? (ii) What do you mean by File Organization?

(iii) Why are Keys defined in Tables? (iv) Differentiate between Cardinality and Modality.

(v) Define Synonym. (vi) What are the Database Anomalies?

(vii) What is the purpose of Radio Button?

(viii) List out different data Types available in MS - Access.

(ix) List any five buttons available on Access Database Window.

C- Language

No.3 (i) What are Pre - processor Directives? (ii) Define Object Code.

(iii) Why are comments used in a C Program? (iv) Define getche ( ) function.

(v) Find errors in the following Code :   (vi) Determine the output of the following Code Segment :

```
void main ( )
{ int x = 5
  int y ;
  y = x + 3 ;
  print f ( " % d , y ); }
```

```
float  f = 6.3159 ;
print f ( "f = % 3.2 f " , f );
```

(vii) Write a Single C Statement to print the following Output :

Hello to

The World of

C Programming

(viii) What will be the Output of the following code

```
int m = 7 ;
int y = 3 ;
Print f ( " % d ", m % y );
```

(ix) Write a Statement to Declare an Integer Variable Initialized to 10

Visual Basic

No3 (i) What does an Object consists of ? (ii) Differentiate between a Project and Solution.

(iii) Define Design Time Mode. (iv) How do you lock controls on a form ?

(v) Define Methods. (vi) What is Load Event?

(vii) Define Operators Precedence. (viii) How Comments are added in a Program ?

(ix) Convert the given Expression in V.B. : $x^2 + 3x - 4$

C- Language

No4 (i) Why Break Statement is used in a " switch " structure? (ii) Write the syntax of if — else statement.

(iii) What is Counter Controlled Loop ? (iv) What is Port Test Loop ?

(v) What is Function Declaration or Function Prototype ? (vi) What is the use of Actual Parameters?

(vii) Why is it important to Close a File ?

(viii) Find the output of the following code segment :   (ix) Convert the following code in while — loop :

```
int x = 10 ;
( x % 2 = = 0 ? print f ( " Even " ) ; print f ( " odd "));
```

```
for ( int i = 3 ; i < = 9 ; i + = 3 )
print f ( " \ t % d ", i ) ;
```

Visual Basic

No4 (i) What is an Infinite Loop ? (ii) What is the use of Call Keyword?

(iii) What does MDI means ? (iv) Why Array List is more Powerful and Flexible than arrays?

(v) How many times does the following loop execute :

For N = 1 to 10

Next

(vi) How can two groups of Radio Buttons work independently?

(vii) Differentiate between List Box and Combo Box.

(viii) How Graphics can be displayed in an image control?

(ix) Can Do — Until — Loop be written as pretest or porttest ? Give example.

P.T.O.

Section - II (MS - ACCESS)

Note : Attempt any one of the following questions.

Q.No.5 Define Database System. Describe four major components of Database system (8)
in detail.

Q.No.6 Discuss different options for Editing Forms in MS - Access. (8)

Section - III

Note : Attempt any two questions either from " C - Language " or " Visual Basic ".

C - Language

Q.No.7 Explain Scanf Function with suitable examples. (8)

Q.No.8 What is Control Structure ? Briefly describe the basic control structures for (8)
writing Programs.

Q.No.9 Write a Program in C - Language that inputs a number from user and prints
the table of number to be entered by user. (8)

pakcity.org

Visual Basic

Q.No.7 Explain different Select – Case Structures used in Visual Basic. (8)

Q.No.8 What is Control Structure ? Briefly describe the basic control structures for (8)
writing Programs.

Q.No.9 Write a Program in Visual Basic that inputs a number from user and prints
the table of number to be entered by user. (8)
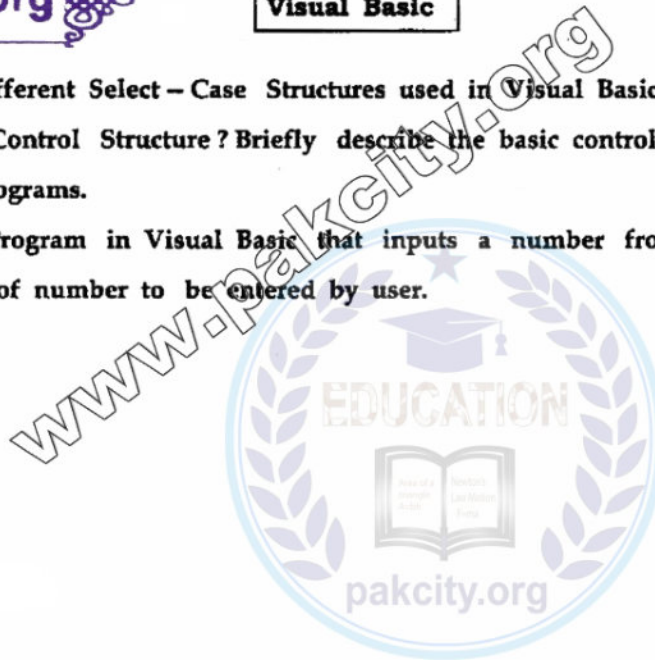
Bahawalpur Board-2018

‹ Important Instructions ›

Note. Q.No.1 from Sr. No. 7 to 15 is of two types :- (i) C - Language (ii) Visual Basic.The candidates are required to attempt any one of them . While Q.No.1 from Sr. No. 1 to 6 is compulsory for all candidates.

Note : Four possible choices A , B , C , D to each question are given. Which choice 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.

MS - ACCESS

QN.1		
(1)	Which of the following is used to associate entities with one another :	(A) Entity (B) Attribute (C) Identifier (D) Relationship
(2)	A Virtual Table that is constructed from other tables is called :	(A) Tuple (B) Table (C) View (D) Report
(3)	Which of the following may be a temporary file :	(A) Master File (B) Transaction File (C) Back Up File (D) Office File
(4)	The Graphical Query Tool is known as :	(A) Query Grid (B) Design Grid (C) Query Form (D) Design Form
(5)	The smallest meaningful unit of Data in a Database is called :	(A) Byte (B) Record (C) Character (D) Field
(6)	A constraint between two attributes is called :	(A) Functional Relation (B) Attribute Dependancy (C) Functional Dependancy (D) Relation Constraint

C Language

(7)	Functions used for I/O are stored in :	(A) Stdio . h (B) Conio . h (C) Math . h (D) Inout . h
(8)	The Data type in C that can handle Fractional Values is called :	(A) Long (B) Char (C) Float (D) int
(9)	The lowest level of Programming Language is :	(A) Java (B) Assembly Language (C) Pascal (D) Fortran
(10)	In Switch Statement, the Case Block ends with :	(A) End (B) Stop (C) Break (D) Abort
(11)	One Execution of a Loop is known as a (n) :	(A) Cycle (B) Duration (C) Iteration (D) Test
(12)	In the Statement FILE * FP, the * represents to :	(A) Pointer (B) Variable (C) Multiplication (D) Parameter
(13)	Which Operation is performed by Relational Operators :	(A) Comparison (B) Addition (C) Subtraction (D) Division
(14)	A file is stored in :	(A) RAM (B) Hard Disk (C) ROM (D) Cache
(15)	Which of the following is not a Loop Structure in C :	(A) While (B) Condition (C) Do - While (D) For

Visual Basic

(7)	A project file is saved with extension :	(A) . vbp (B) . vb (C) . frm (D) . frx
(8)	Forms and Controls are collectively recognized as :	(A) Properties (B) Methods (C) Objects (D) Events
(9)	The Step by Step procedure to solve a problem is called :	(A) Program (B) Algorithm (C) Language (D) Flowchart
(10)	A function that can impart some action to an object is called :	(A) Property (B) Control (C) Method (D) Attribute
(11)	Which of the given is not a relational operator :	(A) < > (B) > = (C) & (D) < =
(12)	What is the representation of the Third Element in array called N :	(A) N (2) (B) N (3) (C) N (1) (D) N (4)
(13)	You can enter data in a control only when it has :	(A) Focus (B) Tab Order (C) Mask (D) Control Value
(14)	A loop that has no end is called :	(A) Running Loop (B) Infinite Loop (C) Finite Loop (D) Active Loop
(15)	How many bytes are occupied by Integer Data Type in V.B. :	(A) 12 (B) 04 (C) 10 (D) 16

- Section - I (MS - ACCESS) is compulsory for all candidates and candidates have to attempt. any (06) parts from Q.No. 2.
Attempt any (6 - 6) parts of Q.No. 3 and Q.No. 4 that consists of two parts i - e - C - Language and Visual Basic.
The candidates have to attempt any one from these - i - e - either C Language or Visual Basic. While attempt Section - II
and Section - III according to given instructions.

Bahawalpur Board-2018 | Section - I | | MS - ACCESS | | 18 x 2 = 36 |

Q.No.2 (i) What is Database System?

(ii) Why do people use Database?

(iii) List any two properties of a relation.

(iv) Distinguish between Entity and Entity Instance.

(v) How Homonyms create problems in Database?

(vi) Differentiate between A Table and Database.

(vii) Name two Table Views in MS - Access.

(viii) What is the Purpose of Radio Button?

(ix) Define the term Data Integrity.

C - Language

Q.No.3 (i) Define Computer Program.

(ii) What is Assembly Language?

(iii) State Character Constant.

(iv) Describe Variable Initialization.

(v) Describe \ n Escape Sequence.

(vi) Write two main categories of Programming Languages.

(vii) Determine the Output :

```
print f ( " 777 \ n " ) ;

print f ( " 77 " ) ;
```

(viii) Determine the Output :

```
int num = 10 ;

num *  = 5 ;

print f ( " % d " , num ) ;
```

(ix) Find the Errors :

```
void main ( )
{
int x =  5 ;
print f ( " % d " , x ) ;
}
```

Visual Basic

Q.No3 (i) Define Computer Program.

(ii) What is Assembly Language?

(iii) Describe Variable Initialization.

(iv) State Character Constant.

(v) Describe vbcrLf in V.B.

(vi) Write two main categories of Programming Languages.

(vii) Determine the Output :

```
Dim num = 10 as Integer

num = num * 5

Msg Box num
```

(viii) Determine the Output :

```
Msg Box " 777 " & vbcrLf

Msg Box " 77 "
```

(ix) Find the Errors :

```
Dimm x = 5 as integer

Msg Box  x ;
```

C- Language

(v) Write the output of the following code:
```
int x;
for (x=0; x<5; x++)
printf ("%d",x);
```

(vi) Convert the following code into for loop:
```
int c = 0;
while (c<5)
{
    printf ("%d",c);
    c++;
}
```

(vii) Define user defined function.

(viii) Describe function defination.

(ix) How is a file closed?

Visual Basic

(v) Write the output of the following code:
```
Dim a,b As Integer
a = 4
b = 2
If a > b then
Msg Box "correct"
End If
```

(vi) Convert the following code into for..next loop:
```
Dim c As Integer
c = 0
while c < 5
print c
c = c + 1
wend
```

(vii) Define implicit declaration of variable.

(viii) How comments are added in VB?

(ix) Differentiate between project file and form file.

SECTION ------------ II

Note: Attempt any ONE question.   (8 × 1 = 8)

MS - ACCESS

5. Briefly describe basic data distribution strategies.

6. Describe any Eight data types available in MS. Access.

SECTION ------------- III

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

7.	C – Language	Describe any four steps to prepare a C-program for execution.
7.	Visual Basic	What is visual basic application? Write steps to develop a visual basic application.
8.	C – Language	Write a program that inputs a character from user and checks whether it is a vowel or not.
8.	Visual Basic	Write a program that inputs a character from user and checks whether it is a vowel or not.
9.	C – Language	Define for loop. Explain its working with the help of an example and flowchart.
9.	Visual Basic	Define For-----Next loop? Explain its working with the help of an Example and flow chart.

1280A -- 1218 -- 10000