



<b>Computer Science</b>	(A)	<b>L.K.No. 1469</b>	<b>Paper Code No. 8831</b>
Paper II	( Objective Type )	<b>Inter ( I<sup>st</sup> - A - Exam - 2024 )</b>	
Time :	20 Minutes	<b>Inter ( Part - II )</b>	Session (2020 - 22) to (2022 - 24)
Marks :	15		BWP-24

( 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**

Q.No.1	Which of the following Database model is often referred to as an Inverted Tree :
(1)	(A) Hierarchical (B) Network (C) Relational (D) Object Oriented
(2)	Which of the following is also known as Control Key : (A) 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 (D) Triangle
(4)	The goal of Normalization is to : (A) Increase No. of Relations (B) Increase Redundancy (C) Get Stable Data Structure (D) Remove Constraints
(5)	The output of the query is in the form of : (A) Form (B) Report (C) Graph (D) Table
(6)	How many table views are available in MS - Access : (A) 1 (B) 2 (C) 3 (D) 4

**C - Language**

(7)	Which places an executable file in memory : (A) Compiler (B) Linker (C) Loader (D) Debugger
(8)	Which of the following is NOT a reserved word : (A) Goto (B) While (C) For (D) Float
(9)	Format Specifier used for integer data type is : (A) %c (B) %d (C) %f (D) %s
(10)	Escape Sequence for backslash is : (A) \ (B) \b (C) \\ (D) \t
(11)	Conditional Operator gives the result for 'a' != 97 ? 10 : 20 ; (A) 10 (B) 20 (C) 30 (D) 107
(12)	Which of the following is NOT valid case statement in switch : (A) Case 0 : (B) Case - 1 : (C) Case 'A' : (D) Case "A" :
(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)	If a file is closed by fclose ( ) function properly , then fclose ( ) function return : (A) NULL (B) 1 (C) 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 - 25 <sup>Sec</sup>	Inter (Part - II)	Session (2020 - 22) to (2022 - 24)
Computer Science (Subjective)	Inter (1 <sup>st</sup> - A - Exam - 2024) BWP-24		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 \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?		

B

P.T.O



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)								
	<table border="1"> <thead> <tr> <th>Temperature</th> <th>Message</th> </tr> </thead> <tbody> <tr> <td>Greater than 35</td> <td>Hot Day</td> </tr> <tr> <td>Between 25 and 35 ( inclusive)</td> <td>Pleasant Day</td> </tr> <tr> <td>Less than 25</td> <td>Cool Day</td> </tr> </tbody> </table>	Temperature	Message	Greater than 35	Hot Day	Between 25 and 35 ( inclusive)	Pleasant Day	Less than 25	Cool Day	
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)								
	<table border="1"> <thead> <tr> <th>Temperature</th> <th>Message</th> </tr> </thead> <tbody> <tr> <td>Greater than 35</td> <td>Hot Day</td> </tr> <tr> <td>Between 25 and 35 ( inclusive)</td> <td>Pleasant Day</td> </tr> <tr> <td>Less than 25</td> <td>Cool Day</td> </tr> </tbody> </table>	Temperature	Message	Greater than 35	Hot Day	Between 25 and 35 ( inclusive)	Pleasant Day	Less than 25	Cool Day	
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)								