
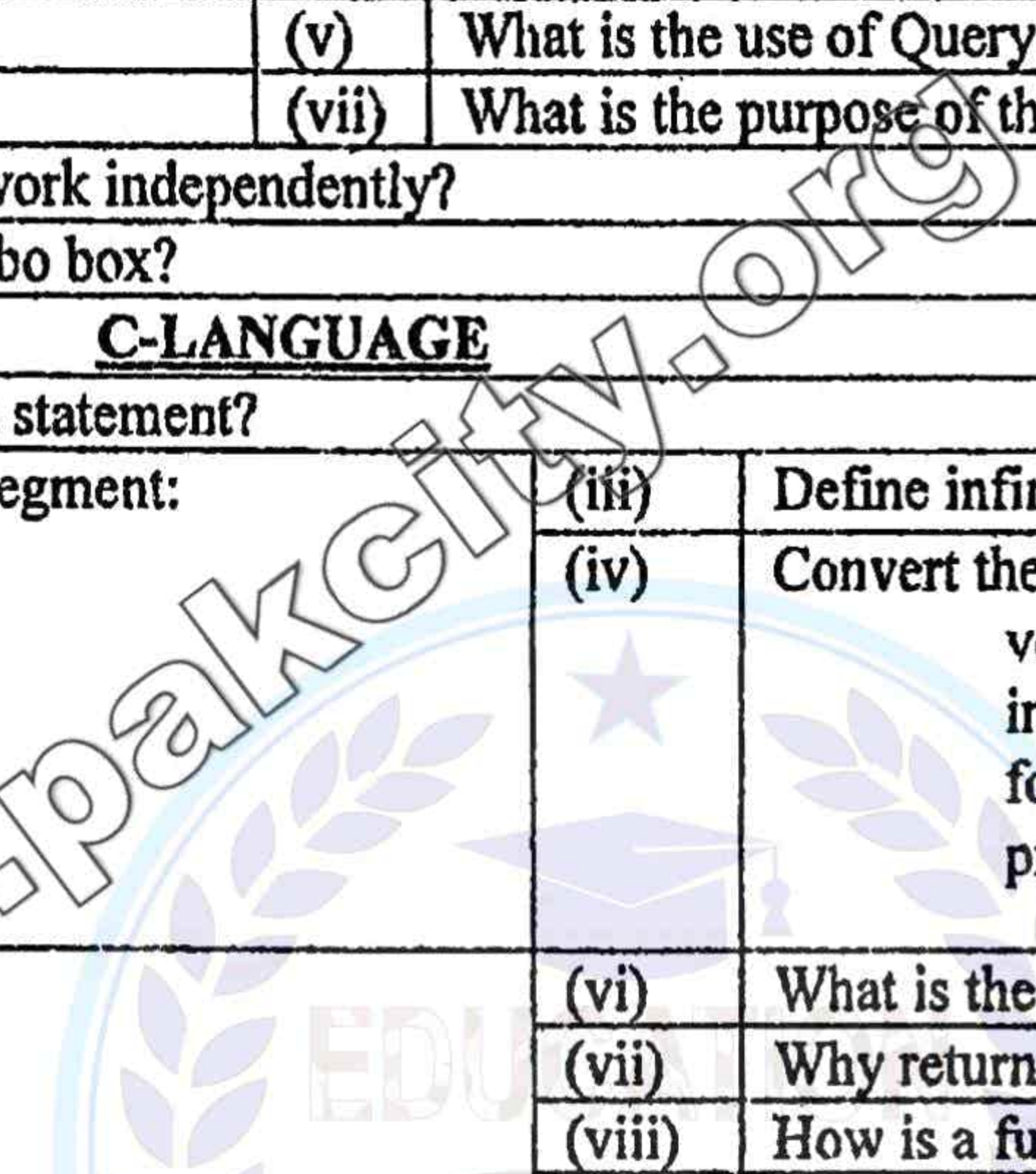
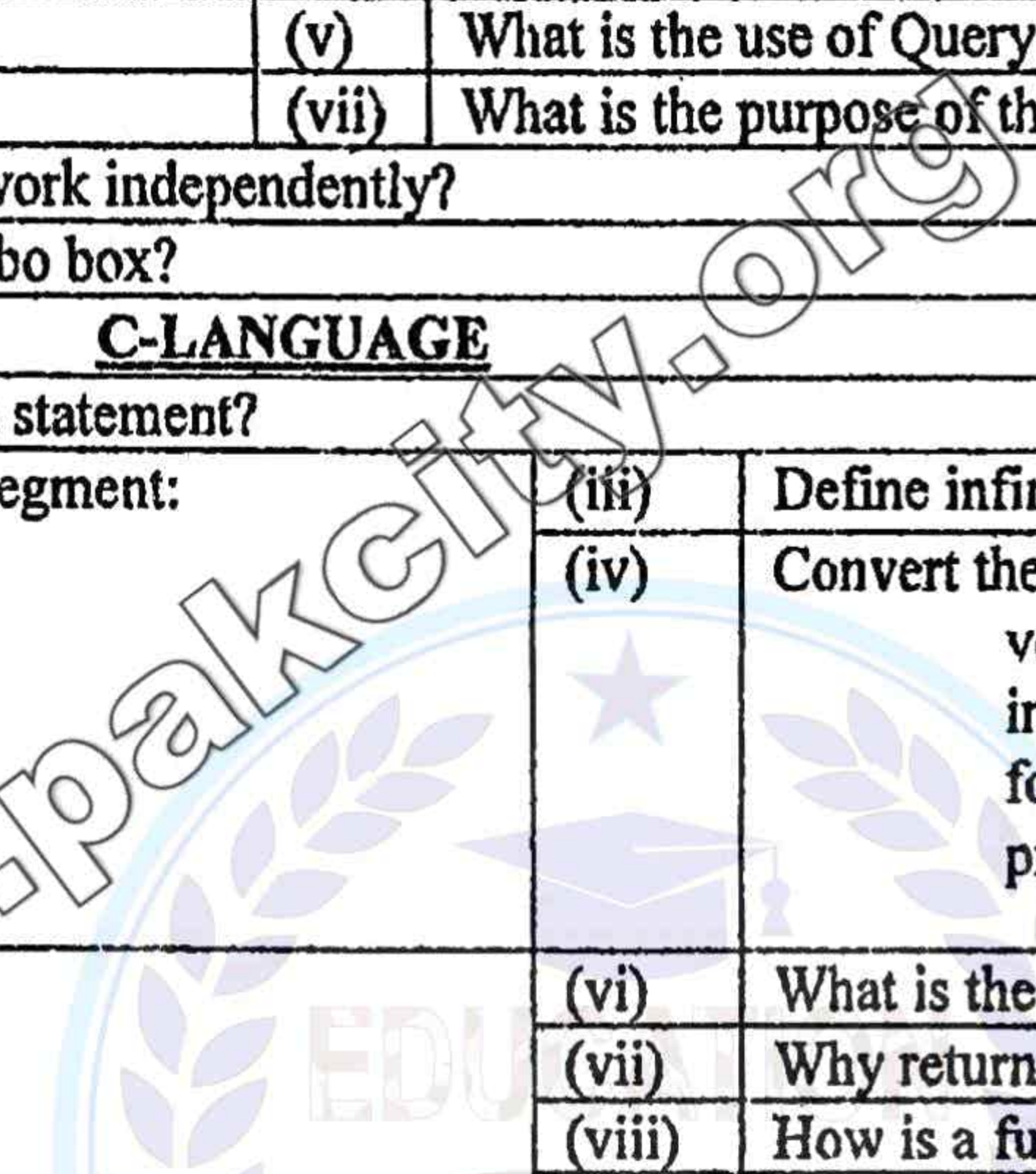
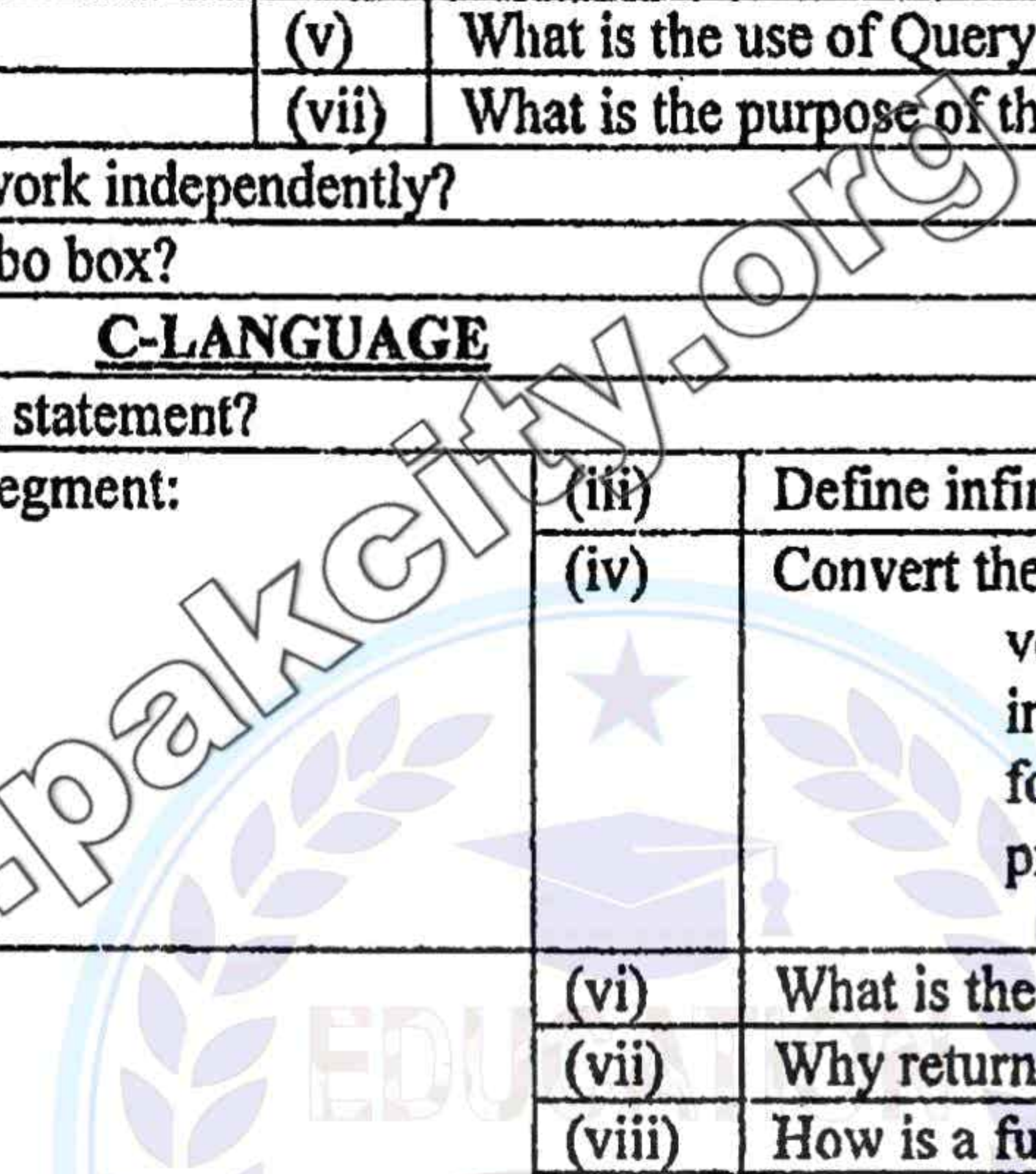


Multan Board-2024

Paper Code Number: 4835		2024 (1 st -A) INTERMEDIATE PART-II (12 th Class)		Roll No: _____	
COMPUTER SCIENCE PAPER-II GROUP-I					
TIME ALLOWED: 20 Minutes		OBJECTIVE		MAXIMUM 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 that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.				
(Either from "MS-ACCESS & C-LANGUAGE" OR from "MS-ACCESS & VISUAL BASIC")					
MS-ACCESS					
S.#	QUESTIONS	A	B	C	D
1	In 3NF, a non-key attribute must not depend on a:	Non-key attribute ●	Key attribute	Composite key	Sort key
2	In a relational database, a single piece of information is called:	Table	Record	Entity	Attribute ●
3	A collection of related field is called:	Character	Record ●	Database	File
4	CREATE command is used to create:	Record	View ●	Report	Query
5	Customers, cars are examples of:	Entity ●	Attribute	Cardinals	Relationship
6	The columns of a table corresponds to:	Table	Record	Field ●	Cell
C-LANGUAGE					
7	An other term for a computer making a decision is:	Sequential	Iteration	Selection ●	Repetition
8	When $x = 40$, $f = (x < 50) ? 10 : 20$;, after executing the statement, the value of x is:	20	10 ●	40	100
9	A loop within a loop is called:	Nested loop ●	Complex loop	Infinite loop	Dual loop
10	A built in function:	Can not be redefine	Can be redefined ●	Can not return a value	Should be redefined
11	The mode opens only an existing file for both reading and writing is:	"W" Output mode	"W+" Append mode	"R+" Create mode ●	"A+" Read mode
12	The extension of header file is:	.cpp	.txt	.E	.h ●
13	Variable and constant name can not contain a(n):	Number	Underscore	Letter	Period ●
14	The function that is used to display output on screen is called:	printf ●	scanf	pow	display
15	The format specifier %f is used for:	81	'F'	4.83 ●	'9'
OR					
VISUAL BASIC					
7	An other term for a computer making a decision is:	Sequential	Iteration	Selection	Repetition
8	When a relational expression is false, it has the value:	1	0	Less than zero	-1
9	A loop within a loop is called:	Nested loop	Complex loop	Infinite loop	Dual loop
10	A built in function:	Can not be redefine	Can be redefined	Can not return a value	Should be redefined
11	To create a new record, the file must be opened in:	Output mode	Append mode	Create mode	Read mode
12	The diamond in a flow-chart indicates:	Progress	Input	Output	Condition
13	Variable and constant name can not contain a(n):	Number	Underscore	Letter	Period
14	BASIC was introduced in:	1960 AD	1950 AD	1970 AD	1980 AD
15	Which event detects the processing of standard displayable characters?	Key down	Key up	Key press	Keyboard


Multan Board-2024

INTERMEDIATE PART-II (12 th Class)				2024 (1 st -A)		Roll No:				
COMPUTER SCIENCE PAPER-II GROUP-I										
TIME ALLOWED: 2.10 Hours				SUBJECTIVE		MAXIMUM MARKS: 60				
NOTE: Write same question number and its parts number on answer book, as given in the question paper.										
SECTION-I										
(Either from "MS-ACCESS & C-LANGUAGE" OR from "MS-ACCESS & VISUAL BASIC")										
2. Write short answers to any six parts.				MS-ACCESS		6 × 2 = 12				
(i)	What is the main purpose of database system?				(ii)	Define foreign key.				
(iii)	How many fields and records does the following table contain?									
	Roll No.	Name	Subject	Class						
	01	Ali	English	1 st year						
	02	Zia	Math	1 st year						
(iv)	What is the primary objective of ER diagram?				(v)	Differentiate between entity class and entity instance.				
(vi)	Define partial dependency.				(vii)	What is database wizard?				
(viii)	Write the use of wild cards.				(ix)	What is the purpose of radio button?				
3. Write short answers to any six parts.				C-LANGUAGE		6 × 2 = 12				
(i)	Why comments are used in program?				(ii)	Write the given expression in C-Language: $a = 2b^2c^3$				
(iii)	Find the errors in the following code: integer x, y; x = 10, y = 20.5;				(iv)	Determine the output of the following code: int x = 1; x++; printf ("%d", x++);				
(v)	What is control string in printf () function?									
(vi)	Find errors in the following code: void main () { printf (OK) }							(vii)	What will be the output of following code: printf ("\\Hello \\n Dear!");	
								(viii)	Define text stream.	
								(ix)	What does "A+" mean in file handling?	
OR										
3. Write short answers to any six parts				VISUAL BASIC		6 × 2 = 12				
(i)	Describe categorized view of property in properties window.				(iii)	Differentiate between the hide and show methods of form.				
(ii)	Define the use of Command Button Control.				(v)	What is the use of Query Unload Event?				
(iv)	Define Modeless form.				(vii)	What is the purpose of the statement 'Unload Me'?				
(vi)	Define List Index Property.									
(viii)	How can two groups of option buttons work independently?									
(ix)	How is information placed inside a combo box?									
4. Write short answers to any six parts				C-LANGUAGE		6 × 2 = 12				
(i)	Why break statement is used in a switch statement?				(iii)	Define infinite loop.				
(ii)	Trace the output of the following code segment: int p = 3, q = 5; if ((p > q) (p! = 4)) p = p + 1; else p = p - 1; printf ("%d", p);				(iv)	Convert the following code into while () loop: void main (void){ int a, k = 1; for (a = 1; a <= 10; a++) printf ("%d\\n", k+a);}				
(v)	Predict the output: int i, a = 3; for (i = 5; i > 0; i--){ a = a + i; printf ("%d\\n", a);				(vi)	What is the life time of a local variable?				
					(vii)	Why return statement is used in function?				
					(viii)	How is a function activated?				
					(ix)	What is the use of formal parameters?				
OR										
4. Write short answers to any six parts				VISUAL BASIC		6 × 2 = 12				
(i)	What is concatenation in Visual Basic?				(ii)	What is Val Function?				
(iii)	Define Infinite loop.				(iv)	Differentiate between "+" and "&" in Visual Basic.				
(v)	How select --- case help in coding.				(vi)	Write the syntax of while --- wend loop.				
(vii)	What is default property of command button?				(viii)	Which statements terminate Do and For loops early?				
(ix)	Trace the output: If (10 Mod 3 = 0) Then Print ("YES") Else Print ("NO") End if									
SECTION-II										
NOTE: Attempt any one question.				MS-ACCESS						
5.	What are the database anomalies? Discuss different anomalies in database.									8
6.	Explain any four types of queries in MS-Access.						8			
NOTE: Attempt any two questions. Either from "C-Language" OR "Visual Basic"				C-Language						
7.	Define bugs. Explain different types of errors in C-program.						8			
8.	Write a program that inputs an integer and determines whether it is positive, negative or zero.						8			
9.	Write a program that displays odd numbers from 1 to 17 using any loop.						8			
OR VISUAL BASIC										
7.	Define bugs. Explain different types of errors in Visual Basic.						8			
8.	Write a program that inputs an integer and determines whether it is positive, negative or zero.						8			
9.	Write a program that displays odd numbers from 1 to 17 using any loop.						8			

Multan Board-2024

Paper Code Number: 4832	2024 (1 st -A) INTERMEDIATE PART-II (12th Class)	Roll No: _____
COMPUTER SCIENCE PAPER-II GROUP-II		
TIME ALLOWED: 20 Minutes	OBJECTIVE	MAXIMUM 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 that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.	
(Either from "MS-ACCESS & C-LANGUAGE" OR from "MS-ACCESS & VISUAL BASIC")		
MS-ACCESS		
S.#	QUESTIONS	A B C D
1	Which is also known as data set?	Module File ● Record Field
2	A relation is also known as:	Table ● Tuple Attribute Relationship
3	In an ER diagram, a rectangle represents:	Attribute Field Flow Entity ●
4	Different attributes in two different tables having same name are called:	Synonym Acronym Homonym ● Mutually exclusive
5	Which database object is used to retrieve data from database?	Queries ● Forms Reports Tables
6	The data in tables is entered in:	Design view Normal view Datasheet view ● Layout view
C-LANGUAGE		
7	Void occupy how many bytes in memory?	Four Three Two Zero ●
8	For initializing a variable, we use _____ operator.	→ = ● ? @
9	The function getch() is defined in:	conio.h ● stdio.h math.h input.h
10	If int z = 222, then the statement printf("%5d",z) will display:	□ 222 □ 222□□ □□222 ● "222"
11	What will be the value of n after executing the following statement: $n = (100 > 200) ? 100 : 200 ;$	100 200 ● 100200 200100
12	Which is valid case statement in a switch?	case x < 2 case "one" case 1.2 case 1 : ●
13	How many types of looping structure are available in C?	2 3 ● 4 1
14	A function can return _____ value(s).	1 ● 2 3 Many
15	Which function is used to write a string to a file?	puts printf f puts () ● getch
OR VISUAL BASIC		
7	Forms and controls are collectively recognized as:	Properties Methods Events Object
8	Methods characterize an object's:	Appearance Behaviour Value Style
9	Variable and constant names can not contain:	Periods Number Underscore Letter
10	The integer data type in VB occupies _____ bytes.	1 12 2 8
11	The loop which never ends is called _____ loop.	nested infinite inner outer
12	If number of iterations are known in advance, the suitable loop is:	Do loop while Do loop until Do while loop For Next
13	Image control holds a graphic that is assigned to _____ property.	caption picture text auto size
14	The property that indicates the number of selected item in the list box control is:	selcount count sum index
15	The property that specifies maximum number of characters that can be entered in a text box:	length max max length multi length

Multan Board-2024

INTERMEDIATE PART-II (12 th Class)		2024 (1 st -A)		Roll No: _____		
COMPUTER SCIENCE PAPER-II GROUP-II						
TIME ALLOWED: 2.10 Hours		SUBJECTIVE		MAXIMUM MARKS: 60		
NOTE: Write same question number and its parts number on answer book, as given in the question paper.						
SECTION-I (Either from "MS-ACCESS & C-LANGUAGE" OR from "MS-ACCESS & VISUAL BASIC")						
2. Write short answers to any six parts.		MS-ACCESS		6 × 2 = 12		
(i)	What is meant by Data manipulation?		(ii)	What is the purpose of using views?		
(iii)	How many fields and records are contained in following table?					
	Roll No.	Student name				Class
	1201	Asad				2 nd year
	1205	Majid				2 nd year
	1212	Saima	1 st year			
(iv)	Why is requirement analysis conducted?		(v)	Define entity with example.		
(vi)	What is meant by data integrity?		(vii)	What are major database objects in MS-Access?		
(viii)	How table design view is different from datasheet view?		(ix)	Define different layouts of form.		
3. Write short answers to any six parts.		C-LANGUAGE		6 × 2 = 12		
(i)	Give examples of any two standard identifiers in C-language.		(ii)	Convert the express $x \geq y \geq z$ in C-language format.		
(iii)	What is the output of the following code? int y=10; int x=2; y = x+y; x = x+5; printf("x=%d and y=%d",x,y);		(iv)	Indicate the errors in the following lines: int 5=x; x =+ x; printf('%s', x);		
(v)	Clarify the difference between getch() and getchc() functions.					
(vi)	Find out the errors: void main (void) { int total marks = 500; int OM = 300; float p = OM */100 ÷ total marks; printf ("%f", p);		(vii)	Predict the output; int x=y=5; printf ("%d \n %d", ++x, x++);		
			(viii)	What is the difference between printf() and fprintf() functions?		
			(ix)	Write purpose of 'fopen' and 'fclose' functions.		
OR						
3. Write short answers to any six parts		VISUAL BASIC		6 × 2 = 12		
(i)	What is the purpose of 'name' property of a control?		(ii)	Name any two components of IDE.		
(iii)	What is the difference between method and property?		(iv)	What is the purpose of control's naming conventions?		
(v)	Differentiate between list-box and combo-box.		(vi)	How can you enter data in multiple lines of a text box?		
(vii)	What is the purpose of tab index property?		(viii)	How can two groups of option buttons work independently?		
(ix)	What is the purpose of timer control?					
4. Write short answers to any six parts		C-LANGUAGE		6 × 2 = 12		
(i)	Define compound statement.					
(ii)	Determine the output of the following code segment: char ch = 'a'; switch (ch) { Case 'a': printf ("A"); case 'b': printf ('B'); }.		(iii)	Write two uses of loop.		
			(iv)	Convert the following code segment into while loop. Void main () { int i; for (i = 1 ; i <= 20 ; i++) printf ("loop"); }.		
(v)	Predict the output of the following code segment. int n; for (n=7; n>=1; n--) printf ("%d", n);		(vi)	Define function header.		
			(vii)	How does a function return a value?		
			(viii)	Write down the use of actual parameter.		
			(ix)	Why is function used in a program?		
OR						
4. Write short answers to any six parts		VISUAL BASIC		6 × 2 = 12		
(i)	Distinguish between Constant and Variable.		(ii)	How variable is declared in Visual Basic?		
(iii)	Why is it important to assign a data type to a variable?		(iv)	Define Control structure.		
(v)	Write down the name of any two control structure in Visual Basic.		(vi)	Write down two uses of select case statement.		
(vii)	Why nested IF is complicated?		(viii)	Define logical operator.		
(ix)	Give four examples of relational expression.					
SECTION-II						
NOTE: Attempt any one question.		MS-ACCESS				
5.	Define database model. Discuss different types of database models.				8	
6.	What is field property in relation? Describe any six field properties in detail.				8	
NOTE: Attempt any two questions. Either from "C-Language" OR "Visual Basic"		C-Language				
7.	Define programming language. Describe any six characteristics of high level programming languages.				8	
8.	A year is a leap year if it is divisible by 4, except that any year divisible by 100 is a leap year only if it is divisible by 400. Write a program that inputs a year such as 1996, 1800 and 2010, and displays "Leap year" if it is leap year, otherwise displays "Not Leap year".				8	
9.	Write a program in C-Language that displays the sum and product of first ten even numbers.				8	
OR VISUAL BASIC						
7.	Define programming language. Describe any six characteristics of high level programming languages.				8	
8.	A year is a leap year if it is divisible by 4, except that any year divisible by 100 is a leap year only if it is divisible by 400, write a program that inputs a year such as 1996, 1800 and 2010, and displays "Leap year" if it is leap year, otherwise displays "Not Leap year".				8	
9.	Write a program in Visual Basic that displays the sum and product of first ten even numbers.				8	

Paper Code Number: 4835	2023 (1 st -A) INTERMEDIATE PART-II (12 th Class)	Roll No: _____
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COMPUTER SCIENCE PAPER-II **Multan Board-2023**

TIME ALLOWED: 20 Minutes **OBJECTIVE** **MAXIMUM 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 that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question.

(Either from "MS-ACCESS & C-LANGUAGE" OR from "MS-ACCESS & VISUAL BASIC")

MS-ACCESS

S.#	QUESTIONS	A	B	C	D
1	Which of the following is an example of one-to-one relationship?	Student-Reg. No.	Person-Automobile	Mother-daughter	Person-Phone No.
2	No attribute of a primary key should contain null values:	Data integrity	Entity integrity	Referential integrity	Null integrity
3	Which wildcard replaces one character only?	*	:	?	!
4	Which type of forms useful to display data from tables and queries that have one-to-many relationship?	Sub-form	Main form	Multi form	Inserted form
5	Which of the following is not an objective of DBMS?	Shareability	Evolvability	Availability	Feasibility
6	Create command is used to create:	Record	View	Report	Query

C-LANGUAGE

7	The expression 10%3 has a value equal to:	1	2	3	4
8	The escape sequence used to begin a new line in C-Language.	\a	\n	\b	\m
9	All of the following are control statements except:	Sequential	Repetition	Selection	Relation
10	The semicolon is placed at the end of condition in:	While loop	Do-while loop	Do loop	for-Next loop
11	The scope of a variable refers to its:	Length	Name	Accessibility	Data type
12	Which short key is used to view output screen?	Alt + F1	Alt + F3	Alt + F5	Alt + F7
13	The output of a compiler is called:	Library code	Source code	Linked code	Object code
14	The logical not operator, denoted by!, is a:	Unary operator	Binary operator	Ternary operator	Bit wise operator
15	The variable names cannot contain a(n):	Number	Underscore	Letter	Period

OR

VISUAL BASIC

7	Which of the following is a valid VB data type?	Boolean	int	Char	float
8	The entire select case construct is terminated with:	Case else	End select	End if	Stop select
9	All of the following are logical operators except:	OR	AND	NOT	<
10	The loop which never ends:	Continuous loop	Infinite loop	Running loop	Controlled loop
11	Which keyword is used to increment a counter by a value that you specify?	interval	skip	step	Next
12	That program which translates assembly source code to machine code:	Compiler	Interpreter	Assembler	Debugger
13	Which of the following is not a VB control?	Command button	Forms	Textbox	Variable
14	Methods characterized an object's:	Behaviour	Appearance	Value	Style
15	The expression 3 mod 5 has a value equal to:	0	1	2	3

INTERMEDIATE PART-II (12 th Class)	2023 (1 st -A)	Roll No:
COMPUTER SCIENCE PAPER-II	Multan Board-2023	
TIME ALLOWED: 2.10 Hours	SUBJECTIVE	MAXIMUM MARKS: 60
NOTE: Write same question number and its parts number on answer book, as given in the question paper.		

SECTION-I

(Either from "MS-ACCESS & C-LANGUAGE" OR from "MS-ACCESS & VISUAL BASIC")

2. Write short answers to any six parts. MS-ACCESS		6 × 2 = 12
(i) Define DBMS.	(ii) Distinguish between primary key and foreign key.	
(iii) List any two properties of a relation.	(iv) What do you mean by entity integrity?	
(v) Define synonym.	(vi) Write any two advantages of forms.	
(vii) Define the term degree of a relation.	(viii) List out four data types available in MS-Access.	
(ix) Differentiate between combo box and list box.		
3. Write short answers to any six parts C-LANGUAGE		6 × 2 = 12
(i) What is statement terminator?	(ii) Differentiate between linker and loader.	
(iii) What is source program?	(iv) What is runtime error?	
(v) What is standard identifier?	(vi) What will be the value of X (integer variable)? $X = 1 + 2\%3 - 3$;	
(vii) What will be the output of the following code? <pre>int x = 10, y = ++x; x = y--; printf("%d", y);</pre>	(viii) Trace error from the following code: <pre>int room #; printf("%d", 5)</pre>	
(ix) Differentiate between character constant and string.		
3. Write short answers to any six parts OR VISUAL BASIC		6 × 2 = 12
(i) What is project explorer?	(ii) How does focus event work in VB?	
(iii) Write down the syntax of Mouse Move event.	(iv) Differentiate between modal and modeless form.	
(v) Write down two event names of keyboard.	(vi) What is caption property of button?	
(vii) Which event does occur when a form is removed from memory?	(viii) What is the purpose of control menu?	
(ix) What is the format of hexadecimal value of color in VB?		
4. Write short answers to any six parts C-LANGUAGE		6 × 2 = 12
(i) What does happen if & sign is missed in scanf() function?	(ii) List any four input functions?	
(iii) Trace the output of the following code segment: <pre>int a, b, c; a = 3; b = a++; c = ++a; printf("%d %d %d", a, b, c);</pre>	(iv) Convert the following code in do while() loop: <pre>int a; for (a = 1; a <= 25; a++) { printf("%d \n", a*a); a++; }</pre>	
(v) Define control structure.	(vi) Write an expression in C-language for the following: temperature is less than 40.00 and greater than 25.00	
(vii) Which part of loop does contain the statements to be repeated?	(viii) What is counter controlled loop?	
(ix) Trace the output of the following code segment: <pre>int k=8, m=7, z; z = k < m ? k++ : m++; printf("%d", z);</pre>		
4. Write short answers to any six parts OR VISUAL BASIC		6 × 2 = 12
(i) How does Select --- Case statement help in coding?	(ii) What is relational expression?	
(iii) Describe intrinsic controls.	(iv) Differentiate between array and variable	
(v) Name any two styles of combo boxes.	(vi) What is iteration?	
(vii) Write down the criteria for using Do---Until loop.	(viii) Which function does load a picture at run time?	
(ix) Define Binary Search.		

SECTION-II

MS-ACCESS

NOTE: Attempt any one question.		
5.	What is File traditional processing system? Write down it's disadvantages in detail.	8
6.	Draw and explain ER diagram for the system of getting admission in a college.	8
NOTE Attempt any two questions. Either from "C-Language" OR "Visual Basic"		
C-Language		
7.	What is "switch" statement? Explain its working with flowchart and example.	8
8.	Write a program in C-language which does display the sum of following series using any loop. $1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{6} + \dots + \frac{1}{100}$	8
9.	Briefly describe the process of writing a function in C-Language.	8
OR VISUAL BASIC		
7.	What is "Select---Case" structure? Explain its working with flowchart and example.	8
8.	Write a program in VB which does display the sum of following series using any loop. $1 + \frac{1}{2} + \frac{1}{4} + \frac{1}{6} + \dots + \frac{1}{100}$	8
9.	Briefly describe the process of writing a function in Visual Basic?	8

COMPUTER SCIENCE

PAPER-II

Multan Board-2021

TIME ALLOWED: 20 Minutes

OBJECTIVE

MAXIMUM MARKS: 15

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. No credit will be awarded in case BUBBLES are not filled. Do not solve question on this sheet of OBJECTIVE PAPER.

Q.No.1

MS-ACCESS

- (1) An entity related to itself in an ERD Model refers to:
 - (A) One-to-many relationship
 - (B) Recursive relationship
 - (C) Many-to-many relationship
 - (D) One-to-one relationship
 - (2) Different attributes in two different tables having same name are referred to as:
 - (A) Synonym
 - (B) Acronym
 - (C) Mutually exclusive
 - (D) Homonym
 - (3) A database consists of various components called the:
 - (A) Tool
 - (B) Properties
 - (C) Objects
 - (D) Entities
 - (4) In a relational database, a single piece of information is called:
 - (A) Field
 - (B) Record
 - (C) Entity
 - (D) Tuple
 - (5) SQL stands for:
 - (A) Unstructured Language
 - (B) Structured Query Language
 - (C) Object Oriented Language
 - (D) Software
 - (6) Who is responsible to design, implement and maintain a databases?
 - (A) Database administrator
 - (B) End users
 - (C) Application programmer
 - (D) Web designer
- C++ LANGUAGE**
- (7) Which of the following data type offers the highest precision?
 - (A) float
 - (B) long int
 - (C) long double
 - (D) unsigned long int
 - (8) The escape sequence for new line:
 - (A) \n
 - (B) \t
 - (C) \b
 - (D) \f
 - (9) The format specifier % c is used for
 - (A) Integers
 - (B) float
 - (C) double
 - (D) character
 - (10) How many kinds of control structures are there to organize program instructions?
 - (A) 3
 - (B) 2
 - (C) 4
 - (D) 5
 - (11) Which of the following is a loop statement?
 - (A) while
 - (B) if
 - (C) if-else
 - (D) nested if
 - (12) printf() is a:
 - (A) local function
 - (B) user defined function
 - (C) keyword
 - (D) built-in function
 - (13) Every C program must have:
 - (A) scanf function
 - (B) getch function
 - (C) main function
 - (D) print function
 - (14) Turbo C++ can compile:
 - (A) Assembly program
 - (B) C++ programs only
 - (C) Machine program
 - (D) C and C++ programs
 - (15) Which of the following is a valid character constant?
 - (A) "b"
 - (B) a
 - (C) '6'
 - (D) =

TIME ALLOWED: 2.10 Hours

SUBJECTIVE

MAXIMUM MARKS: 60

NOTE: Write same question number and its part number on answer book, as given in the question paper.

SECTION-I

Multan Board-2021

2. Answer briefly any Six parts from the following:

6 × 2 = 12

MS-ACCESS

- | | |
|--|---|
| (i) What do you mean by composite key? | (ii) Define End User. |
| (iii) Write the purpose of Modality. | (iv) Describe Project Planning. |
| (v) List advantages of MS-ACCESS. | (vi) How MS-ACCESS existing from Windows? |
| (vii) What are relationships? | (viii) Write two differences between relationship and join. |
| (ix) Define Tabular form. | |

3. Answer briefly any Six parts from the following:

6 × 2 = 12

C-LANGUAGE

- | | |
|--|--|
| (i) What are Syntax Errors? | (ii) What is #include Directive? Give an example. |
| (iii) Differentiate between Linker and Loader. | (iv) What are Logical operators? Name any two. |
| (v) What are Identifiers? | (vi) Write two rules for Naming Variables. |
| (vii) Find error:
int x;
scanf ("%d", s x);
if (x%2 = 0)
printf ("Even Number") | (viii) Trace output:
int price = 19;
if (price! = 10)
printf ("Yes"); |
| (ix) Trace output:
int x = 1, y = 2, z = 3;
if ((x == y) (y == z) (z == 2))
printf ("Yes");
else
printf ("No"); | |

4. Answer briefly any Six parts from the following:

6 × 2 = 12

C-LANGUAGE

- | | |
|---|--|
| (i) List any four escape character provided by C. | (ii) Write down the use of "getch" function. |
| (iii) Why is the ampersand (&) used in scanf function? | |
| (iv) Predict the output of the following code segment:
int n;
for (n = 1; n <= 12; n = n + 4)
printf ("%d", n); | |
| (v) Predict the output of the following code segment:
int x = 3;
while (x <= 12)
{
printf ("x is %d \n", x);
x = x + 2;
} | |
| (vi) Find the errors from the following code segment:
int x = 1;
while (x <= 6);
{
printf ("%d" x);
x ++;
} | |
| (vii) Define function. | (viii) Compare local and global variable. |
| | (ix) Define Newline marker. |

SECTION-II

NOTE: Attempt any one question.

8 × 1 = 8

MS-ACCESS

5. Define database model. Discuss different types of database models.
6. What is normalization? Explain three forms of normalization.

SECTION-III

NOTE: Attempt any two questions.

8 × 2 = 16

C-LANGUAGE

7. Define programming language. Describe the characteristics of high level programming languages.
8. Write the general form of if statement with multiple alternatives. Draw flow chart and explain its working?
9. Write a program that get starting and ending numbers then print counting in between these numbers using while loop.



COMPUTER SCIENCE PAPER-II (NEW SCHEME)

TIME ALLOWED: 20 Minutes

OBJECTIVE

MAXIMUM MARKS: 15

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Marking or filling two or more circles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank. No credit will be awarded in case of multiple bubbles are not filled. Do not solve questions on this sheet of OBJECTIVE PAPER.

No.1

(Either from "MS-ACCESS & C-LANGUAGE" OR from "MS-ACCESS & VISUAL BASIC")

MS-ACCESS

- (1) SQL is a:
(A) Unstructured Language (B) Structured Language (C) Object Oriented language (D) Software
- (2) A table must have:
(A) Primary Key (B) Secondary Key (C) Composite Key (D) Sort Key
- (3) E-R diagram represents:
(A) Attribute (B) Relationship (C) Cardinals (D) Entity
- (4) Which form of dependency is removed in 3 N.F?
(A) Functional (B) Non-functional (C) Associative (D) Transitive
- (5) MS-Access saves the database with extension:
(A) .mdb (B) .msdb (C) .madb (D) .mxls
- (6) Which of the following Menues is used to switch between table?
(A) Edit (B) File (C) Tools (D) View

C-LANGUAGE

- (7) C is a:
(A) High Level language (B) Low Level Language (C) Assembly Language (D) Machine Language
- (8) The left side of an assignment statement holds:
(A) Variable (B) Constant (C) Expression (D) Digit
- (9) The functions used for input and output is stored in:
(A) Stdio.h (B) Conio.h (C) Math.h (D) Inout.h
- (10) The case block ends with:
(A) End select (B) End Case (C) break (D) Case Else
- (11) Which operator in C is called a ternary operator?
(A) IF (B) b++ (C) ? (D) ()
- (12) In which loop the condition comes after the body of the loop?
(A) for (B) while (C) do while (D) nested
- (13) The loop which never ends is called:
(A) Infinite loop (B) Running loop (C) Continuous loop (D) Nested loop
- (14) Global variables are created in:
(A) Ram (B) Rom (C) Hard disk (D) Cache
- (15) In the statement File*FP, The " represent:
(A) Variable (B) Parameters (C) Arguments (D) Pointer

OR**VISUAL BASIC**

- (7) Visual Basic is:
(A) High Level language (B) Low Level Language (C) Assembly Language (D) Machine Language
- (8) The left side of an assignment statement holds:
(A) Variable (B) Constant (C) Expression (D) Digit
- (9) Which of the following is an optional element of an event procedure?
(A) End sub (B) Handles (C) Object-Event (D) Statement
- (10) Each element in a control array is identified:
(A) Test Index (B) Tab Index (C) Index (D) Subscript
- (11) The default message box style is:
(A) Yes No (B) Yes No cancel (C) Ok only (D) Retry cancel
- (12) In which loop the condition comes after the body of the loop?
(A) for...next (B) while-end while (C) do while (D) nested
- (13) What is the name of a program that translates VB code to object code?
(A) Interpreter (B) Assembler (C) Compiler (D) Debugger
- (14) Which is not a property of the common controls?
(A) Hide (B) Name (C) Back color (D) Fore color
- (15) Which events is activated when a radio button is selected?
(A) Selected changed (B) Selection changed (C) Checked (D) Checked changed

INTERMEDIATE PART-II (12th CLASS)**COMPUTER SCIENCE PAPER-II (NEW SCHEME)****TIME ALLOWED: 2.10 Hours****SUBJECTIVE****MAXIMUM MARKS: 60****NOTE: - Write same question number and its part number on answer book, as given in the question paper.****SECTION-I****(Either from "MS-Access & C-Language" or from "MS-Access & Visual Basic").****Attempt any six parts.****MS-ACCESS****6 x 2 = 12**

- (i) What is the main purpose of database system?
- (ii) Why is report generator used in database system?
- (iii) What is the basic purpose of using views?
- (iv) How is database integrity maintained?
- (v) Define synonym.
- (vi) Differentiate between partial dependency and transitive dependency.
- (vii) Define the term table in database.
- (viii) What is database wizard?
- (ix) Which control is used to execute commands in MS-Access forms?

Attempt any six parts.**C-LANGUAGE****6 x 2 = 12**

- (i) How is a header file included in C-program?
- (ii) Why main function is used in C-program?
- (iii) Define an identifier with example.
- (iv) Predict the output of following code segment:


```
int x = 7;
int y = 3;
printf ("%d and %d", x, y);
```
- (v) Initialize three variables T_1 , T_2 , T_3 in a single line by assigning values 48, 45 and 39 respectively.
- (vi) Find errors in following code segment


```
void main (void);
{ int c = 7;
  printf ("%f", c);
}
```
- (vii) Differentiate between printf and scanf functions.
- (viii) Write a C-statement which scans three floating point variables a , b and c in a single line.
- (ix) Determine the output of the following code segment:


```
float f = 3.14159;
printf ("f = %4.2f", f);
```

OR**VISUAL BASIC****3. Attempt any six parts.****6 x 2 = 12**

- (i) Define executable file in Visual Basic.
- (ii) Differentiate between 'Key down' and 'Key up' events.
- (iii) What is Variable declaration?
- (iv) How do you define operator precedence?
- (v) Declare and initialize three variables T_1 , T_2 and T_3 by assigning values 48, 50 and 32 respectively.
- (vi) What mathematical operators are used in Visual Basic?
- (vii) Define "Concatenation" with an example.
- (viii) How would you define relational operators?
- (ix) What is the use of "NOT" operator?

- (i) Define compound statement.
- (ii) Write a C-statement that assigns 1 to the variable y if the value of the variable x is greater than 0. Otherwise, it assigns -1 to the variable y .
- (iii) What will be the output of the following:
- ```
char c = 'a';
switch (c)
{
case 'a'
printf ("a");
default:
printf ("Not a");
}
```
- (iv) Define infinite loop.
- (v) Change the following while loop to for loop:
- ```
int c = 0;
while ( cc = 5)
{
printf ("%d\n",C);
c++;
}
```
- (vi) What will be the output of the following:
- ```
int c = 1;
do
{
printf ("%d", c)
}
while (c++ c = 4);
```
- (vii) What do you know about user defined function?
- (viii) Define Local Variable.
- (ix) How is the end of text file indicated?

**OR**

**VISUAL BASIC**

6 x 2 = 12

4. Attempt any six parts.

- (i) Define Logical Operator.
- (ii) What is goto statement?
- (iii) Differentiate between Counter and Conditional loop.
- (iv) Define Do-Loop structure.
- (v) What is Iteration?
- (vi) Explain array manipulation.
- (vii) What is control array?
- (viii) How does an array differ from simple variable?
- (ix) Define user-defined function.

### **SECTION-II**

**MS-ACCESS** NOTE: - Attempt any one question.

Write any four advantages of DBMS.

8

Discuss different methods of modifying a table in MS-Access.

8

**C-LANGUAGE** NOTE: - Attempt any two questions.

Write any eight characteristics of C-Language.

8

What is if-else statement? Draw its flow chart, also explain its working with an example.

8

Write a program in C that inputs a number from the user and displays the table of that number using for loop.

8

**OR**

**VISUAL BASIC** NOTE: - Attempt any two questions.

Write a program to swap the value of two variables without using third variable.

8

What is if-then-else statement? Draw its flow chart, also explain its working with an example.

8

Write a program in VB that inputs a number from the user and displays the table of that number using For--Next loop.

8



**COMPUTER SCIENCE PAPER-II (NEW SCHEME)**

TIME ALLOWED: 20 Minutes

**OBJECTIVE**

MAXIMUM MARKS: 15

**Note:** You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank. No credit will be awarded in case BUBBLES are not filled. Do not solve questions on this sheet of OBJECTIVE PAPER.

**Q.No.1**

(Either from "MS-ACCESS &amp; C-LANGUAGE" OR from "MS-ACCESS &amp; VISUAL BASIC")

**MS-ACCESS**

- (1) A logical grouping of characters is a:-  
(A) Field (B) Record (C) File (D) Table
- (2) A table is a two dimensional structure that consists of:-  
(A) X and Y coordinates (B) Matrix elements (C) rows and columns (D) Intersection of data
- (3) A person's name, birthday and social security number are examples of:-  
(A) Attributes (B) Entities (C) Relationships (D) Descriptors
- (4) \_\_\_\_\_ form of dependency is removed in 3NF.  
(A) Functional (B) Non-functional (C) Associative (D) Transitive
- (5) \_\_\_\_\_ is not a database object.  
(A) Table (B) Query (C) Report (D) MS Word
- (6) In a relational database, a single piece of information is called:-  
(A) Table (B) Records (C) Entity (D) Attribute

**C-LANGUAGE**

- (7) The ".exe" file produced by:-  
(A) Linker (B) Loader (C) Compiler (D) Interpreter
- (8) Variable and constant names can not contain a (n):-  
(A) Number (B) Underscore (C) Letter (D) Period
- (9) Format specifier is started with symbol:-  
(A) ? (B) % (C) & (D) \*
- (10) In if statement, false is represented by:-  
(A) 0 (B) 1 (C) 2 (D) 3
- (11) Relational operators allow you to \_\_\_\_\_ numbers.  
(A) Compare (B) Add (C) Multiply (D) Divide
- (12) A loop within a loop is called:-  
(A) Nested loop (B) Complex loop (C) Infinite loop (D) Dual loop
- (13) \_\_\_\_\_ is a loop statement.  
(A) if (B) if - else (C) Switch (D) For
- (14) Formal arguments are also called:-  
(A) Actual arguments (B) Dummy arguments (C) Original arguments (D) Referenced arguments
- (15) An array script should be:-  
(A) int (B) Float (C) Double (D) An array

**OR****VISUAL BASIC**

- (7) The ".exe" file produced by:-  
(A) Linker (B) Loader (C) Compiler (D) Interpreter
- (8) Variable and constant names can not contain a (n):-  
(A) Number (B) Underscore (C) Letter (D) Period
- (9) Use \_\_\_\_\_ to declare variable in Visual Basic.  
(A) Identifier (B) Dim (C) Sub (D) Event
- (10) In if statement, false is represented by:-  
(A) 0 (B) 1 (C) 2 (D) 3
- (11) Relational operators allow you to \_\_\_\_\_ numbers.  
(A) Compare (B) Add (C) Multiply (D) Divide
- (12) A loop within a loop is called:-  
(A) Nested loop (B) Complex loop (C) Infinite loop (D) Dual loop
- (13) \_\_\_\_\_ is a loop statement.  
(A) if (B) if - else (C) Switch (D) For-next
- (14) Formal arguments are also called:-  
(A) Actual arguments (B) Dummy arguments (C) Original arguments (D) Referenced arguments
- (15) An array script should be:-  
(A) int (B) Float (C) Double (D) An array

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**INTERMEDIATE PART-II (12<sup>th</sup> CLASS)****COMPUTER SCIENCE PAPER-II (NEW SCHEME)**

TIME ALLOWED: 2.10 Hours

**SUBJECTIVE**

MAXIMUM MARKS: 60

**NOTE: - Write same question number and its part number on answer book, as given in the question paper.****SECTION-I****(Either from "MS-Access & C-Language" or from "MS-Access & Visual Basic").****2. Attempt any six parts.****MS-ACCESS****6 x 2 = 12**

- (i) Define Data Dictionary.
- (ii) Describe Database.
- (iii) List any two responsibilities of data administrator.
- (iv) State the purpose of cardinality.
- (v) What is Synonym?
- (vi) Differentiate between full functional dependency and transitive dependency.
- (vii) What is the use of title bar in MS-Access?
- (viii) Discuss the use of design view in MS-Access.
- (ix) Distinguish between form and sub-form.

**3. Attempt any six parts.****C-LANGUAGE****6 x 2 = 12**

- (i) Explain preprocessor directives with example.
- (ii) What are delimiters in C?
- (iii) Describe the concept of linker.
- (iv) Define keywords with example.
- (v) What is garbage value?
- (vi) What is output of : `printf("%C", 67);`
- (vii) Define escape sequence character with example.
- (viii) What is Sentinel Controlled Loop?
- (ix) Find errors of C code:

```
int a = 10, b = 40
print ("sum: ", a + b)
```

**4. Attempt any six parts.****6 x 2 = 12**

- (i) What is a Continue Statement?
- (ii) Define Ternary Operator.
- (iii) What is the use of Switch Statement?
- (iv) What is an Expression?
- (v) Write output of the code.  

```
float f = 3.1415 ;
printf ("% 7.2f ", f)
```
- (vi) Define Function Prototype.
- (vii) What is Return Statement?
- (viii) What is File Pointer?
- (ix) Convert the following code into Do-while loop code:-

```
int n = 1;
while (n <= 7)
{
 printf ("%*/n");
 n++;
}
```





**3. Attempt any six parts.**

- (i) Define properties of Window.
- (ii) Explain Code Window.
- (iii) Differentiate between hiding and closing a form.
- (iv) Define Keywords
- (v) What are Variant Variables?
- (vi) Explain the use of concatenation operator.
- (vii) Explain general syntax of msgbox ( ).
- (viii) Write general syntax of inputbox ( ).
- (ix) How can we declare double type variables?

**4. Attempt any six parts.**

**6 x 2 = 12**

- (i) What is a variable declaration in Visual Basic?
- (ii) List any three properties of Timer Control.
- (iii) Define Identifier.
- (iv) What is an Assignment Operator?
- (v) Differentiate between Variable length and Fixed length string.
- (vi) Write use of Checkbox in Visual Basic.
- (vii) Trace errors  

```
For i = 0 to 4 increment 1
Print "Hello"
next j
```
- (viii) Find output  

```
if (3 > 1) then
print ("First no is greater")
else
print("second no is greater")
end if
```
- (ix) Convert into while loop code.  

```
for a = 1 to 7
print a * 2
next a
end sub
```

**SECTION-II**

**MS-ACCESS**

**NOTE: - Attempt any one question.**

5. Briefly describe basic data distribution strategies. 2 + 2 + 2 + 2 = 8
6. What are Field Properties? Explain at least three field properties with examples. 2 + 2 + 2 + 2 = 8

**C-LANGUAGE**

**NOTE: - Attempt any two questions.**

7. Describe eight rules for naming variables in C – Language. 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 = 8
8. Write a program in C – Language that inputs two numbers and one arithmetic operator (+, -, \*).  
It applies arithmetic operation on numbers on the basis of given operator. 8
9. Define Do-While Loop with Syntax. Explain its working with example and flowchart. 2 + 1 + 3 + 2 = 8

**OR**

**VISUAL BASIC**

**NOTE: - Attempt any two questions.**



7. Describe any eight properties of form in Visual Basic. 8
8. Write a program in Visual Basic that inputs two numbers and one arithmetic operator (+, -, \*).  
It applies arithmetic operation on numbers on the basis of given operator 8
9. Define Do-loop-until with syntax. Explain its working with example and flowchart. 2 + 1 + 3 + 2 = 8