

Paper Code Number: 4835	2024 (1 st -A) INTERMEDIATE PART-II (12 th Class)	Roll No: MTN-1-24
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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

INTERMEDIATE PART-II (12 th Class)	2024 (1 st -A)	Roll No:
COMPUTER SCIENCE PAPER-II GROUP-I	M T N - 1 - 24	
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?														
	<table border="1"> <thead> <tr> <th>Roll No.</th> <th>Name</th> <th>Subject</th> <th>Class</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>Ali</td> <td>English</td> <td>1st year</td> </tr> <tr> <td>02</td> <td>Zia</td> <td>Math</td> <td>1st year</td> </tr> </tbody> </table>	Roll No.	Name	Subject	Class	01	Ali	English	1 st year	02	Zia	Math	1 st year	
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.	(vi) 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

Paper Code Number: 4832	2024 (1 st -A) INTERMEDIATE PART-II (12 th Class)	Roll No: <i>MTN-2-24</i>
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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

INTERMEDIATE PART-II (12 th Class)		2024 (1 st -A)		Roll No:	
COMPUTER SCIENCE PAPER-II GROUP-II		SUBJECTIVE		MAXIMUM MARKS: 60	
TIME ALLOWED: 2.10 Hours					
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 getche() 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	