

Roll No. of Candidate : _____

COMPUTER SCIENCE Intermediate Part-II, Class 12th (1stA 424- IV) Group: I Paper: II

Time: 20 Minutes

OBJECTIVE Code: 8837 G.U.J-1-24

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.

MS-ACCESS

1. An entity related to itself in an ERD model refers to relationship :
(A) recursive (B) one to many (C) many to many (D) one to one
2. The graphical query tool is known as :
(A) query grid (B) design grid (C) query form (D) design form
3. A virtual table that is constructed from other tables is called :
(A) table (B) tuple (C) view (D) relation
4. The data that causes inconsistency lacks :
(A) good data (B) data integrity (C) data redundancy (D) data anomaly
5. Referential integrity is applied on :
(A) primary key (B) composite key (C) sort key (D) foreign key
6. Each separate piece of information stored in a record is called :
(A) form (B) field (C) table (D) query

C-LANGUAGE

7. If $x = 2$, $y = 3$, the expression $(x > y) ? (x + y) : (x * y)$; will display output as :
(A) 5 (B) 10 (C) 6 (D) 1
8. The keyword "break" cannot be used within :
(A) do while (B) if - else (C) for (D) while
9. The programmer usually prepares the source code using :
(A) compiler (B) text editor (C) debugger (D) linker
10. Memory is allocated to a local variable at the time of its :
(A) declaration (B) destruction (C) definition (D) first reference
11. The character conversion may occur in :
(A) text stream (B) binary stream (C) input stream (D) output stream
12. Escape Sequence used to insert a Tab in C-Language is :
(A) \a (B) \b (C) \t (D) \n
13. Format specifier %5.3 for the value 4.1257, will produce the output: --
(A) 4.125 (B) 4.126 (C) □4.126 (D) □4.125
14. Conditional operator is an alternative of :
(A) if (B) if - else (C) switch (D) for
15. The data type in C-language that can handle fractional values, is called :
(A) long (B) char (C) float (D) int

OR

VISUAL BASIC

7. Data can be entered in a control when it has :
(A) tab order (B) mask (C) focus (D) control
8. In Visual Basic, a form is another name for :
(A) object (B) window (C) property (D) label
9. Which of the following is not a control?
(A) textbox (B) close button (C) command button (D) option button
10. The property that changes text color is :
(A) backcolor (B) textcolor (C) forecolor (D) fontcolor
11. Visual Basic is a product of :
(A) Microsoft (B) IBM (C) Hewlet (D) Sun System
12. A control that provides an identifiable grouping for control is :
(A) textbox (B) button (C) label (D) listbox
13. The output of compiler is :
(A) source code (B) object code (C) linked code (D) program
14. A predefined screen that can be used as one of the building blocks of an application :
(A) object (B) window (C) property (D) label
15. The code that is used in a sub procedure to stop execution of a program is :
(A) exit (B) halt (C) end (D) end sub

Note: Section I is compulsory.

SECTION – IMS-ACCESS

12

2. Write short answers to any SIX questions:

- | | |
|--|---|
| i. Write down two advantages of database systems. | vi. What is meant by “atomic values”? |
| ii. In which condition, you need to create composite key in a relation? Justify your answer. | vii. What is database wizard? |
| iii. What is foreign key? | viii. Why are we using Input Masks? |
| iv. Differentiate between relation and relationship. | ix. Differentiate between ListBox and ComboBox. |
| v. What is the main purpose of “Partitioned” data distribution strategy? | |

C-LANGUAGE

12

3. Write short answers to any SIX questions:

- | | |
|---|--|
| i. Define variable initialization. | v. What is meant by & in scanf function? |
| ii. Write down the following statement in C-language.
“Age is between 18 years and 50 years” | vi. Find any two errors
void main ();
{int a = 10;
printf(“%s”, b);
} |
| iii. Find any two errors
integer x, y,
z = x + y;
printf(“z = %d”, z); | vii. Write the output of the following code
printf(“\n Amir \t\t 78 \t\t 425”);
printf(“\n Tahir \t\t 23 \t\t 388”); |
| iv. Find output
int a = 5, b = 10;
int z = a + b * 2;
printf(“Result = %d”, z); | viii. Describe the purpose of ‘\0’ in strings.
ix. What is a stream? |

OR

VISUAL BASIC

12

3. Write short answers to any SIX questions:

- | | |
|---|--|
| i. Define a method in VB. | vi. How is a picture removed at runtime? |
| ii. What is the main advantage of using Visual Basic? | vii. What is ListIndex property? |
| iii. Describe form window. | viii. Define WordWrap in VB. |
| iv. Differentiate between menubar and toolbar. | ix. What is FileListBox control? |
| v. Write down any two forms events. | |

C-LANGUAGE

12

4. Write short answers to any SIX questions:

- | | |
|---|---|
| i. Why break statement is used in a switch () structure? | v. Predict the output of the following code segment
int n;
for (n = 10; n >= 1; n--)
printf(“%d”, n); |
| ii. Predict the output of the following code segment
int a = 10, b = 5;
if (a > b)
printf(“PUNJAB”);
else
printf(“KPK”); | vi. Define function.
vii. How is a function activated?
viii. Write down the use of formal parameters.
ix. Write down two importances of functions? |
| iii. Define nested loop. How does it work? | |
| iv. Convert the following code into while loop :
int i;
for (i = 1; i <= 5; i++)
{
printf(“In Pakistan”);
} | |

(Turn Over)

VISUAL BASIC

4. Write short answers to any SIX questions:

- | | |
|---|---|
| i. Define currency data type in VB. | vi. Trace the output:
if(10 MOD 3 = 0) Then
print ("YES")
else
print ("NO")
End if |
| ii. Describe option explicit declaration in VB. | vii. How an AND operator is used in VB statement? |
| iii. Write down the syntax of input box. | viii. What is sentinel value? |
| iv. How select.....Case help in coding? | ix. Write down the syntax of For.....Next loop. |
| v. What is default property of command button? | |

SECTION - II
MS-ACCESS

Note: Attempt any ONE question.

5. Briefly describe four major components of database systems. (8)
6. Explain different types of Queries? (8)

SECTION - III

Note: Attempt any TWO questions (either from "C-Language" or from "Visual Basic"):

C - LANGUAGE

7. What are errors? Discuss different types of errors which may occur in C-Language program. (8)
8. Write a program in C-language that inputs a year and finds whether it is a leap year or not, using if-else structure. (8)
9. Write a program that displays first five odd numbers and their average using while loop. (8)

OR

VISUAL BASIC

7. Discuss any eight form objects in VB. (8)
8. Write a program in Visual Basic that inputs a year and finds whether it is a leap year or not, using If...Then...Else structure. (8)
9. Write a program in VB that displays first five odd numbers and their average using While Wend loop. (8)

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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.

MS-ACCESS

1. The smallest meaningful unit of data in a database is called :
(A) field (B) character (C) record (D) byte
2. In relational database, a table is also called :
(A) tuple (B) relation (C) schema (D) file
3. Which of the following data model is more flexible?
(A) Network data model (B) Relational data model
(C) Hierarchical data model (D) Basic data model
4. Default field size of text data type field in MS Access :
(A) 20 (B) 30 (C) 40 (D) 50
5. In an ER diagram, a rectangle represents :
(A) entity (B) relationship (C) attribute (D) action
6. The columns of a table correspond to :
(A) cell (B) table (C) record (D) field

C-LANGUAGE

7. The case block ends with
(A) End Select (B) End Case (C) break (D) Case else
8. Format Specifier %5.2f for value 4.12157, will produce output :
(A) □4.12 (B) □□4.12 (C) □□□4.12 (D) □5.121
9. If a = 70 what will be the output of the following expression? n = (a >= 80)? 10 : 20;
(A) 5 (B) 10 (C) 15 (D) 20
10. The name of header file is written between :
(A) [] (B) () (C) <> (D) << >>
11. In which loop the condition comes after the body of the loop?
(A) for loop (B) while loop (C) do - while loop (D) Infinite loop
12. Single line comment starts with
(A) // (B) \\
(C) *\
(D) *
13. A file is stored in
(A) RAM (B) Hard Disk (C) ROM (D) Cache
14. Escape sequence used for backspace in C
(A) \a (B) \b (C) \t (D) \r
15. Local variables are also called
(A) automatic variables (B) normal variables (C) global variables (D) basic variables

OR

VISUAL BASIC

7. A procedure or function that imparts some action to an object is called
(A) property (B) control (C) method (D) label
8. Methods characterize an object's
(A) behaviour (B) appearance (C) value (D) style
9. Which event detects the pressing of standard displayable characters?
(A) key down (B) key up (C) keyboard (D) key press
10. The diamond in a flowchart indicates
(A) input (B) output (C) condition (D) progress
11. The function which is used to display a message
(A) input box (B) message (C) msgbox (D) text box
12. Control, that is used to display text or to accept user input
(A) label (B) textbox (C) button (D) property
13. Relational operators are used to
(A) add (B) compare (C) multiply (D) divide
14. Forms and controls are collectively recognized as
(A) properties (B) objects (C) methods (D) events
15. The default message box style is
(A) OK only (B) Yes No (C) Yes No Cancel (D) Retry Cancel

Note: Section I is compulsory.

SECTION - IMS-ACCESS

12

2. Write short answers to any SIX questions:

- | | |
|---|---|
| i. Define the term database. | v. Define centralized data distribution strategy. |
| ii. Discuss the advantage of variable length field over fixed length field. | vi. What is synonym problem in database? |
| iii. What is the role of end user in database system? | vii. Briefly describe the role of table object in database. |
| iv. Briefly describe the concept of cardinality. | viii. Define the concept of wildcards. |
| | ix. Discuss the layout of datasheet form. |

C-LANGUAGE

12

3. Write short answers to any SIX questions:

- | | |
|---|---|
| i. What is meant by initializing a variable? | v. Why is ampersand (&) used in scanf function? |
| ii. Write the following statement in C-language code:
Temp between 15 and 32 inclusive | vi. Find errors in the following code:
<pre>#include <studio.h> viode main () { int a = 10; printf(“%d”, a); }</pre> |
| iii. Write errors in the following code:
<pre>int m, y ; m = 10.3; y = 5; printf(“%d %d”, m , y).</pre> | vii. Predict output of the following code
<pre>int n = 512 , b ; b = n% 10; printf(“%d \n %d” , n , b);</pre> |
| iv. Predict the output of the following code:
<pre>int x = 5 , y = 10; x = x + y; y = y - x; printf(“%d %d”, x , y);</pre> | viii. Define binary stream. |
| | ix. Write usage of file pointer. |

OR

VISUAL BASIC

3. Write short answers to any SIX questions:

12

- | | |
|--|--|
| i. What are three basic controls used in Visual Basic? | vi. What is meant by Focus? |
| ii. What is properties windows? | vii. Differentiate between Modal and Modeless Forms |
| iii. Write ways to exit from Visual Basic. | viii. What is the importance of visible property in VB Form? |
| iv. How object methods are called? | ix. Write the method to close a VB Form. |
| v. Define event procedures. | |

C-LANGUAGE

12

4. Write short answers to any SIX questions:

- | | |
|---|---|
| i. Give examples of two control structures. | v. Give output of the following code:
<pre>for(int x=1 ; x <= 5 ; x++) printf(“%d \n” , x * x);</pre> |
| ii. Predict the output of the code:
<pre>char ch; ch = ‘p’; if(ch == ‘p’) printf(“pass”); else printf(“fail”);</pre> | vi. Give any two advantages of using a user defined function in C-language program. |
| iii. Differentiate between ‘do – while’ and ‘while’ loop. | vii. What is the purpose of function call and function return? |
| iv. Convert the following for() loop in to while ()
<pre>for(int i = 1 ; i <= 5 ; i++) printf(“%d \n” , i);</pre> | viii. Differentiate between local and global variables. |
| | ix. What is the purpose of function header and function prototype? |

(Turn Over)

OR

VISUAL BASIC

12

4. Write short answers to any SIX questions:

- i. Differentiate between explicit and implicit declaration of variable.
- ii. Write the syntax of input box.
- iii. List four relational operators in VB.
- iv. What symbol is used for NOT operator in Visual Basic? Give example.
- v. When should a for – Next loop be used?
- vi. Write syntax of for – Next loop.
- vii. What is the purpose of counter variable?

viii. Write output of following code segment:

```
x = 0
while x <= 15
    print x + 2
    x = x + 2
wend
```

What is meant by iteration in a loop?

ix.

SECTION - II
MS-ACCESS

Note: Attempt any ONE question.

- 5. Define Database model? Explain Hierarchical model along with example. (8)
- 6. Define view. What are two table views available in MSAccess? How can you switch between them? (8)

SECTION - III

Note: Attempt any TWO questions (either from “C-Language” or from “Visual Basic”):

C - LANGUAGE

- 7. How would you create, edit, compile, link and execute a program in C-Language? Discuss briefly. (8)
- 8. Write a program in C-language that inputs three numbers and finds the smallest number. (8)
- 9. Write a program in C-language that calculates the sum of the following series using loop: (8)

1.0 1.5 2.0 2.5 3.0 3.5 10.0

OR

VISUAL BASIC

- 7. How would you create, edit, compile, link and execute a program in VB? Discuss briefly. (8)
- 8. Write a program in Visual Basic that inputs three numbers and finds the smallest number. (8)
- 9. Write a program in Visual Basic that calculates the sum of the following series using loop: (8)

1.0 1.5 2.0 2.5 3.0 3.5 10.0