

COMPUTER SCIENCE Intermediate Part-II, Class 12th (1stA 424) Group: I Paper: II
Time: 2:10 Hours SUBJECTIVE Marks: 60
Note: Section I is compulsory.

SECTION - I
MS-ACCESS

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

3. Write short answers to any SIX questions:

- | | |
|---|---|
| i. Define variable initialization. | vi. What is meant by & in scanf function? |
| ii. Write down the following statement in C-language.
"Age is between 18 years and 50 years" | vii. 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); | viii. 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); | ix. Describe the purpose of '\0' in strings.
ix. What is a stream? |

OR

VISUAL BASIC

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

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? |
| iii. Define nested loop. How does it work? | viii. Write down the use of formal parameters. |
| iv. Convert the following code into while loop :
int i;
for (i = 1 ; i <=5 ; i++)
{
printf("In Pakistan");
} | ix. Write down two importances of functions? |

(Turn Over)

- 2 -
OR

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) |

321-1stA 424-18500

Roll No. of Candidate : _____

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

Time: 20 Minutes

OBJECTIVE Code: 8832

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

C-LANGUAGE

7. The name of header file is written between :
(A) [] (B) () (C) < > (D) < < > >
8. Single line comment starts with
(A) // (B) \ \ (C) * \ (D) \ *
9. Escape sequence used for backspace in C
(A) \ a (B) \ b (C) \ t (D) \ r
10. Format Specifier %5.2f for value 4.12157, will produce output :
(A) □4.12 (B) □□4.12 (C) □□□4.12 (D) □5.121
11. The case block ends with
(A) End Select (B) End Case (C) break (D) Case else
12. 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
13. 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
14. Local variables are also called
(A) automatic variables (B) normal variables (C) global variables (D) basic variables
15. A file is stored in
(A) RAM (B) Hard Disk (C) ROM (D) Cache

OR

VISUAL BASIC

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

COMPUTER SCIENCE Intermediate Part-II, Class 12th (1stA 424) Group: II Paper: II
Time: 2:10 Hours **SUBJECTIVE** **Marks: 60**
Note: Section I is compulsory.

SECTION – I
MS-ACCESS

- 2. Write short answers to any SIX questions:** **12**
- Define the term database.
 - Discuss the advantage of variable length field over fixed length field.
 - What is the role of end user in database system?
 - Briefly describe the concept of cardinality.
 - Define centralized data distribution strategy.
 - What is synonym problem in database?
 - Briefly describe the role of table object in database.
 - Define the concept of wildcards.
 - Discuss the layout of datasheet form.

C-LANGUAGE

- 3. Write short answers to any SIX questions:** **12**
- What is meant by initializing a variable?
 - Write the following statement in C-language code: Temp between 15 and 32 inclusive
 - Write errors in the following code:

```
int m, y ;
m = 10.3;
y = 5;
printf("%d %d", m, y);
```
 - Predict the output of the following code:

```
int x = 5, y = 10;
x = x + y;
y = y - x;
printf("%d %d", x, y);
```
 - Why is ampersand (&) used in scanf function?
 - Find errors in the following code:

```
#include <studio.h>
void main ()
{ int a = 10;
printf("%d", a);
}
```
 - Predict output of the following code:

```
int n = 512, b ;
b = n% 10;
printf("%d \n %d", n, b);
```
 - Define binary stream.
 - Write usage of file pointer.

OR

VISUAL BASIC

- 3. Write short answers to any SIX questions:** **12**
- What are three basic controls used in Visual Basic?
 - What is properties windows?
 - Write ways to exit from Visual Basic.
 - How object methods are called?
 - Define event procedures.
 - What is meant by Focus?
 - Differentiate between Modal and Modeless Forms.
 - What is the importance of visible property in VB Form?
 - Write the method to close a VB Form.

C-LANGUAGE

- 4. Write short answers to any SIX questions:** **12**
- Give examples of two control structures.
 - Predict the output of the code:

```
char ch;
ch = 'p';
if(ch == 'p')
printf("pass");
else
printf("fail");
```
 - Differentiate between 'do – while' and 'while' loop.
 - Convert the following for() loop in to while ()

```
for(int i = 1 ; i <= 5 ; i++)
printf("%d \n", i);
```
 - Give output of the following code:

```
for(int x=1 ; x <= 5 ; x++)
printf("%d \n", x * x);
```
 - Give any two advantages of using a user defined function in C-language program.
 - What is the purpose of function call and function return?
 - Differentiate between local and global variables.
 - What is the purpose of function header and function prototype?

(Turn Over)

- 2 -
OR

VISUAL BASIC

- 4. Write short answers to any SIX questions:** **12**
- Differentiate between explicit and implicit declaration of variable.
 - Write the syntax of input box.
 - List four relational operators in VB.
 - What symbol is used for NOT operator in Visual Basic? Give example.
 - When should a for – Next loop be used?
 - Write syntax of for – Next loop.
 - What is the purpose of counter variable?
 - 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?

SECTION – II
MS-ACCESS

Note: Attempt any ONE question.

- Define Database model? Explain Hierarchical model along with example. **(8)**
- 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

- How would you create, edit, compile, link and execute a program in C-Language? Discuss briefly. **(8)**
- Write a program in C-language that inputs three numbers and finds the smallest number. **(8)**
- Write a program in C-language that calculates the sum of the following series using loop:
1.0 1.5 2.0 2.5 3.0 3.5 10.0 **(8)**

OR

VISUAL BASIC

- How would you create, edit, compile, link and execute a program in VB? Discuss briefly. **(8)**
- Write a program in Visual Basic that inputs three numbers and finds the smallest number. **(8)**
- Write a program in Visual Basic that calculates the sum of the following series using loop:
1.0 1.5 2.0 2.5 3.0 3.5 10.0 **(8)**

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