

COMPUTER SCIENCE

Class 12th (Inter Part-II) — For All Sessions

PART - I (OBJECTIVE)

Time: 20 Minutes

Total Questions: 15

Marks: 15

Note: Write answers to the questions on the objective answer sheet provided. Four possible answers A, B, C and D to each question are given. Which answer you consider correct, fill the corresponding circle A, B, C or D given in front of each question with marker or pen ink on the answer sheet provided.

MS-ACCESS

1. In an ER diagram, the rectangle represents:

- (A) Attribute (B) Entity (C) Record (D) Relationship

2. In 3NF, a non-key attribute must not depend on a:

- (A) Key attribute (B) Composite attribute (C) Primary attribute (D) Non-key attribute

3. The output of the query is in the form of a:

- (A) Form (B) Object (C) Table (D) Report

4. In MS Access, text type allows maximum number of characters up to:

- (A) 254 (B) 255 (C) 260 (D) 266

5. Select a data model which is more flexible among others:

- (A) Network data model (B) Hierarchical model (C) Logical data model (D) Relational data model

6. In a table, each primary key value should be:

- (A) Unique (B) Summarized (C) Non-unique (D) Null

C-LANGUAGE7. Format specifier % .3f for the value of -0.005 will produce output:

- (A) $\square.005$ (B) -0.005 (C) $\square-0.005$ (D) -0.005

8. Select a statement which is used for making two-way decision:

- (A) Switch (B) If - else (C) If (D) nested if

9. Consider $x = 12$ and $y = 13$, the output of the expression $x > y ? x + y : x - y$; will be:

- (A) -1 (B) 1 (C) 25 (D) 15

10. Select the loop in which condition is written before the body of the loop:

- (A) do - while loop (B) wend loop (C) infinite loop (D) while loop

11. Local variables are created in:

- (A) Hard disk (B) ROM (C) RAM (D) Cache

12. On successfully closing a file, the `fclose( )` returns:

- (A) Null (B) 0 (C) 1 (D) -1

13. A program that combines object program with additional object files is:

- (A) Linker (B) Loader (C) Preprocessor (D) Interpreter

14. An equivalent expression to $a \neq b$ is:

- (A) $b \neq a$ (B) $a \neq b$ (C) $a = a/b$ (D) $b = b/a$

15. Select format specifier that displays character on the screen:

- (A) % d (B) % f (C) % c (D) % X

(OR) VISUAL BASIC

7. Select the operator used for string concatenation:

- (A) - (Under score) (B) & (Ampersand) (C) / (slash) (D) + (plus sign)

8. In VB which statement is used to declare variable:

- (A) Sub (B) Dim (C) Identifier (D) Event

9. The entire select case construct is terminated with:

- (A) End Select (B) Case Else (C) End if (D) Stop select

10. The statement that will immediately terminate a For Next loop is:

- (A) End for (B) Exit loop (C) End loop (D) Exit for

11. Select a control which is invisible at run time:

- (A) Label (B) Image (C) Timer (D) Drive List Box

12. A window that requires the user to take some action before the focus can move to another form:

- (A) Modelessly (B) Modal (C) Modular (D) Module

13. The rectangle symbol in flow chart indicates:

- (A) Process (B) Input (C) Output (D) Condition

14. In Visual Basic, a form is another name for:

- (A) Tool (B) Property (C) Object (D) Code

15. The property that changes text color is:

(A) Back color	(B) Font color	(C) Fore color	(D) Text color
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Original board paper reference: 633-12-A | Typeset by Tayarri from the 2024 Rawalpindi Board paper. The objective marks figure was cut off on the source copy; 15 shown as the question count. Verify against the original before use in assessment.

COMPUTER SCIENCE

Class 12th (Inter Part-II) — For All Sessions

PART - II (SUBJECTIVE)

Time: 2:10 Hours

Marks: 60

SECTION - I**MS-ACCESS****2. Write short answers of any six parts from the following:**

(6 × 2 = 12)

- Differentiate between data and information.
- Consider the following figure and indicate the Field names and records:

R No	Name	Class ID	Dep ID
1	Asif Ali	10	4
2	Aysha	10	4
3	Saleem	11	1
- Write two responsibilities of database Administrator.
- How will you determine that software development is feasible for an organization or not?
- Write two differences between cardinality and modality of a relation.
- Why it is important to normalize the relation before you use it for storing data?
- What is the purpose of IDE in MS-ACCESS?
- Differentiate between design view and data sheet view of table.
- Write purpose of 'validation' and 'input mask' properties.

C-LANGUAGE**3. Write short answers of any six parts from the following:**

(6 × 2 = 12)

- Define string constant. Give an example.
- Write the equivalent statement in Language C, for the following: $S = Vit + \frac{1}{2}at^2$
- Predict the output of the following code segment:

```
int a = 7;
int y = 3;
printf("%d and %d", x/y, x*y);
```

- Find errors in the following:

```
void main()
{
int c = 7;
printf("%d", c);
}
```

- Compare getch and getche function.
- Find errors in the following code segment:

```
void main()
{
int x = 5;
int y
sum = x + y
printf("%d", sum);
}
```

- Find the output of the following code segment:

```
void main()
{
printf("How \t are \t you");
printf("\n Bye");
}
```

- How file is opened in C-Language?
- Define file pointer.

(OR) VISUAL BASIC (V.B)**3. Write short answers of any six parts from the following:**

(6 × 2 = 12)

- Differentiate between design time and run time.
- Define IDE.
- Write down two steps for creating Visual Basic project.
- Distinguish between object and event.
- Describe key up event.
- Distinguish between hiding and closing of a form.
- Define focus.
- Name and explain two styles of combo box.
- Distinguish between 'Default' and 'Cancel' properties of command button.

C-LANGUAGE

4. Write short answers of any six parts from the following:

(6 × 2 = 12)

- i. Why should you use a default label in switch structure?
- ii. Determine output of following code segment:

```
int x = 1, y, z;  
if ((x == y) || (y == z) || (z == 2))  
    printf("yes");  
else  
    printf("No");
```

- iii. Write the syntax of do while loop.
- iv. Convert following code into while loop:

```
void main()  
{  
    int i;  
    for (i = 1; i <= 10; i++)  
        printf("Pakistan");  
}
```

- v. Determine output of following code:

```
int i, p = 1;  
for (i = 1; i < 6; i += 1)  
    p *= 2;  
printf("%d", p);
```

- vi. Define between actual and formal parameters?
- vii. What do you know about user defined functions?
- viii. What is the scope of local variable?
- ix. What is function definition?

(OR) VISUAL BASIC

4. Write short answers of any six parts from the following:

(6 × 2 = 12)

- i. Write the syntax of message box in VB.
- ii. What is concatenation and when would it be useful?
- iii. What is compound condition? Give example.
- iv. When should an if block be used instead of select case block?
- v. When should you use do while loop?
- vi. Which statement terminate do and for loop early?
- vii. Write the syntax of do loop until.
- viii. Draw flow chart of do loop while.
- ix. Write output of following code segment:

```
i = 1  
Do  
    Print i * i  
    i = i + 1  
Loop while i <= 5
```

SECTION - II

Note: Attempt any one question from the following: (MS-ACCESS)

(8 × 1 = 8)

5. What are data base anomalies? Briefly discuss insertion, deletion and modification anomalies.
6. Explain any four data types available in MS-ACCESS.

SECTION - III

Note: Attempt any two questions either from “C-Language” or “Visual Basic”.

(8 × 2 = 16)

(C-LANGUAGE)

7. Describe the characteristics of high-level programming languages.
8. Write a program in C-Language which takes three members as input from user & display the smallest number by using logical operators.
9. Write a program that displays first five numbers and their sum using while loop.

(VISUAL BASIC)

7. Describe the characteristics of high-level programming languages.
8. Write a program in VB which takes three numbers as input from user & display the smallest number by using logical operators.
9. Write a program that displays first five numbers and their sum using while....wend loop.