



Roll No. \_\_\_\_\_ To be filled in by the candidate

(For all sessions)

Paper Code 8 8 3 3

**Computer Science** (Objective Type) **RWP-21**

Time: 20 Minutes

Marks: 15

**NOTE:** Write answers to the questions on objective answer sheet provided. Four possible answers A,B,C & 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**

- 1.1. Which of the following object of database is used to retrieve data from database?  
(A) Queries (B) Forms (C) Reports (D) Tables
2. A referential integrity constraint is a rule that maintains consistency among the:  
(A) columns of two tables (B) two columns of same table  
(C) rows of two table (D) attribute of two tables
3. Arithmetic manipulation of data is known as:  
(A) Summarizing (B) Classifying (C) Sorting (D) Calculations
4. An attribute is also known as:  
(A) Field (B) Table (C) Row (D) Relation
5. In ERD Model, the relationship between two entities is represented by a:  
(A) rectangular box (B) oval symbol (C) diamond symbol (D) line
6. Every relation must have a:  
(A) candidate key (B) primary key (C) secondary key (D) alternate key

**C-Language**

7. A loop inside the body of another loop is:  
(A) For loop (B) while loop (C) nested loop (D) infinite loop
8. Function prototypes for built-in functions are specified in:  
(A) source files (B) header files (C) object files (D) image files
9. Every statement in a C program terminates with:  
(A) Colon (B) Semicolon (C) Delimiters (D) comma
10. Preprocessor directives are commands for:  
(A) Microprocessor (B) Language processor  
(C) Loader (D) C preprocessor
11. Which of the following operators has lowest precedence:  
(A) = (B) ! (C) == (D) +
12. The logical not operator, denoted by!, is a:  
(A) Unary operator (B) Ternary operator (C) Binary operator (D) Bitwise operator
13. The escape sequence for Tab is:  
(A) \f (B) \n (C) \r (D) \t
14. The format specifier %f is used for:  
(A) Character (B) Integer (C) Double (D) Float
15. A compound statement refers to a group of statements enclosed in:  
(A) ( ) (B) { } (C) [ ] (D) " "

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Roll No. \_\_\_\_\_ To be filled in by the candidate

(For all sessions)

**Computer Science** (Essay Type)

RWP-21

Time: 2:10 Hours

Marks: 60

**Section-I (MS-ACCESS)**

2. Write short answers of any six parts from the following.

2 x 6 =12

- |   |                                      |
|---|--------------------------------------|
| i. List two properties of relation.                       | ii. What do you mean by primary key? |
| iii. Define data modeling.                                | iv. What is cardinality?             |
| v. How is MS-ACCESS loaded?                               | vi. What are reports?                |
| vii. What is Join? Write its purpose.                     | viii. Write uses of query.           |
| ix. Write two advantages of using a microsoft ACCESS IDE. |                                      |

**(C-Language)**

3. Write short answers of any six parts from the following.

2 x 6 =12

- |  |   |
|--|---|
| i. Why is C known as strongly typed language?            | ii. Describe header file.                           |
| iii. Write shortcut key to run a C-program.              | iv. Give any four examples of valid variable names. |
| v. Differentiate between constant and variable.          | vi. What is high level language?                    |
| vii. Determine the output of the following code segment: | viii. Find errors in the following code             |

```
int m=0, n=5;
if(m%n>1)
printf("success");
else
printf("Failure");
```

```
int P=20
if(P ≥ 5)
printf("OK");
```

ix. Write an expression in C-language for the given statement: age is from 18 to 25.

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

2 x 6 =12

- |  |   |
|--|---|
| i. Write the syntax of printf and scanf functions.               | ii. Define the term stream in context of file handling. |
| iii. What is meant by character input in C-programming language? | iv. Find the errors in the following code segment.      |

```
a=10;
Avg=0;
While(a<=10);
Avg+=a
```

v. Trace the output of the following piece of code.

```
for(int x=1;x<=10;x=x+4)
printf("%d\n",x);
```

vi. Determine the output of the following code segment.

```
int j=5;
While(j<=15)
{
printf("Pakistan\n")
j=j+2;
}
```

vii. Write down any two benefits of functions.

viii. What is meant by scope of variable?

ix. Enlist escape sequences used for different purposes.

**Section -II (MS-ACCESS)**

8x1=8

Note: Attempt only one question from the following.

- |   |    |
|---|----|
| 5. Write four major components of database system.                              | 08 |
| 6. Define functional dependency. How do partial dependencies affect a relation? | 08 |

**Section -III (C-language)**

8x2=16

Note: Attempt any two question from the following.

- |   |    |
|---|----|
| 7. Define programming language. Discuss two main types of programming languages.      | 08 |
| 8. What is control structure? Briefly describe basic control structures of C program. | 08 |
| 9. Write a program that prints odd numbers between (1 to 100) using for loop.         | 08 |