



Roll No. _____ To be filled in by the candidate

(For all sessions)

Paper Code	8	8	3	3
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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

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RWP-21

Computer Science (Essay Type)

Time: 2:10 Hours

Marks: 60

Section-I (MS-ACCESS)

2 x 6 = 12

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

- 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)

2 x 6 = 12

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

- 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.

2 x 6 = 12

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

- 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.
- 6. Define functional dependency. How do partial dependencies affect a relation?

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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.
- 8. What is control structure? Briefly describe basic control structures of C program.
- 9. Write a program that prints odd numbers between (1 to 100) using for loop.

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