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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) Uniary 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)**
RWP-21

Computer Science (Essay Type)

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:
   ```
   int  m=0,  n=5;
       if(m%n>1)
     printf("success");
       else
     printf("Failure");
   ```
   viii. Find errors in the following code
   ```
   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