

12161  
COMPUTER SCIENCE  
PART-II

**NOTE:** There are three sections of this paper. Carefully read the instructions for each section and attempt accordingly. Attempt all questions of Section-A and return it to the Superintendent within given time, even if you have not attempted any question. Select the correct choice and write only A, B, C or D, whichever is appropriate, in the answer box. No marks will be awarded for cutting/erasing or overwriting.

SECTION-A

Time: 20 Minutes

Marks: 15

1. Which of the following constraints are applied to the relationships between records?  
A) intra record, B) inter record, C) general, D) both A&C .....
2. Physical database design is concerned with the achievement of ..... schema of database.  
A) logical, B) internal, C) external, D) none of these .....
3. .... are the inconsistencies that result when two different names are used for the same data item.  
A) homonyms, B) synonyms, C) duplication, D) all these .....
4. Accessing the same piece of data or information by two or more transactions simultaneously is called:  
A) inconsistency, B) redundancy, C) concurrency, D) none of these .....
5. A relation is said to be well structured if it has ..... redundancy. A) no, B) minimal, C) maximal,  
D) zero .....
6. The ..... statement is used to execute one statement when the condition is true and another  
when the condition is false. A) if, B) if-else, C) assignment, D) none of these .....
7. The character set of C Language contains ..... A) only digits, B) only alphabets,  
C) digits and alphabets only, D) digits, alphabets and special symbols .....
8. Which of the following operator is a unary operator? A) +, B) -, C) ++, D) -= .....
9. Which of the following return statements is incorrect? A) return 0, B) return x, C) return x+y,  
D) return x, y .....
10. If the return type of any function is void, then it will return ..... A) no value, B) only one value,  
C) two values, D) more than two values .....
11. In which of the following statements the keyword default is used? A) if, B) if else, C) switch,  
D) assignment statement .....
12. Which of the following type of a variable occupies 10 bytes in memory? A) long, B) float,  
C) double, D) long double .....
13. Which of the following is not a high level language? A) Basic, B) C, C) Pascal, D) Assembly .....
14. Which of the following is a variable declaration statement? A) x=y, B) int x, y, C) (x==y),  
D) x+=y .....
15. The escape sequence used for carriage return is ..... A) \a, B) \n, C) \r, D) \t .....

**12181**  
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**PART-II**

Time: 2 Hours 40 Minutes

**SECTION-B**

Marks: 36

1. Attempt any nine of the following. All carry equal marks.
- i. Differentiate between single-valued vs multi-valued attributes.
  - ii. Differentiate between entity type and entity instance.
  - iii. Briefly describe DBMS objects.
  - iv. Briefly explain first normal form.
  - v. What is machine language? How does machine language differ from high level languages?
  - vi. What is the role of update, append and delete query?
  - vii. How to create a new form using design view?
  - viii. Explain at least three arithmetic or string functions used in C Language.
  - ix. Briefly describe the concept of while loop with the help of suitable examples.
  - x. Describe the relational operators used in C Language.
  - xi. Elaborate the syntax and use of printf() function.
  - xii. Briefly describe the physical database design.

**SECTION-C**

Marks: 24

**NOTE:** Attempt any three of the following questions. All questions carry equal marks.

2. Explain different types of relationships.
3. Describe the important characteristics and objects of MS-Access briefly.
4. Describe the basic structure of the simple C program with the help of a sample program.
5. What is loop? Explain the syntax for loop in C Language with the help of programming examples.