COMPUTER SCIENCE   **(INTERMEDIATE PART-II) 421 - (IV)**   **Paper II**

Time: 20 Minutes   **OBJECTIVE ..... Code: 8837**   **Marks:15**

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of that question number. Use marker or pen to fill the circles. Cutting or filling two or more circles will result in zero mark in that question. Attempt as many questions as given in objective type question paper and leave others blank.

GUJ-81

MS-ACCESS AND C-LANGUAGE

1.

1. Which provides information about the function to the compiler
   - (A) function header
   - (B) function body
   - (C) function call
   - (D) function prototype

2. The part of for loop executes only once
   - (A) condition
   - (B) increment
   - (C) decrement
   - (D) initialization

3. The conditional operator is an alternative of
   - (A) if
   - (B) if-else
   - (C) nested if
   - (D) if-else-if

4. Which escape sequence is used for backspace?
   - (A) \B
   - (B) \b
   - (C) /b
   - (D) \bs

5. The & symbol is scanf function indicate variable's
   - (A) address
   - (B) value
   - (C) format
   - (D) data type

6. Which of the following statement is true for A=25 and B=35
   - (A) A+B
   - (B) A>=B
   - (C) A!=B
   - (D) A==B

7. The total number of keywords in C-Language are
   - (A) 32
   - (B) 60
   - (C) 98
   - (D) 102

8. A set of rules that must be followed to develop a program is called
   - (A) bug
   - (B) debugging
   - (C) preprocessor
   - (D) syntax

9. In assembly language, long machine language instructions are replaced with English like words called
   - (A) statements
   - (B) mnemonics
   - (C) directives
   - (D) instructions

10. Which view is used to add, edit or delete record from table?
    - (A) record view
    - (B) datasheet view
    - (C) design view
    - (D) edit view

11. A database consists of various components called
    - (A) tools
    - (B) properties
    - (C) entities
    - (D) objects

12. A primary key value cannot be null is what kind of integrity?
    - (A) referential integrity
    - (B) entity integrity
    - (C) data integrity
    - (D) security integrity

13. Organizing the database on secondary storage is related to
    - (A) logical design
    - (B) physical design
    - (C) implementation
    - (D) analysis

14. The foreign key is found in
    - (A) parent table
    - (B) index table
    - (C) master table
    - (D) dependent table

15. Which of the following type of files requires the largest processing time?
    - (A) random files
    - (B) indexed files
    - (C) sequential files
    - (D) direct access files

COMPUTER SCIENCE   (INTERMEDIATE PART-II) 421   Paper II

Time: 2:10 Hours

SUBJECTIVE

Marks: 60

Note: Section I is compulsory.

GUJ-21

(SECTION – I)

2. Write short answers to any SIX questions: 12

MS-ACCESS

i. Define key.
ii. What is table in database?
iii. Write down the purpose of feasibility study.
iv. List four data distribution strategies.
v. What do you mean by IDE?
vi. Define form.
vii. List different types of action queries.
viii. When is referential integrity used?
ix. Differentiate between forms and reports.

3. Write short answers to any SIX questions: 12

C-Language

i. Define high level language.
ii. Give any four examples of high level languages.
iii. Differentiate between preprocessor directives and header files.
iv. Write down the use of OR operator.
v. List six relational operators in C Language.
vi. What do you know about the data type in C Language.
vii. Predict the output of the following code segment:

```
int a = 1 , b = 2 , c = 3;
if ((a = = b) \\ (b = = c) \\ (c = = 4 ))
printf ("Yes");
else
printf ("No");
```

viii. Predict the output of the following code segment:

```
if (2 % 3 > = 1)
printf ("Yes");
else
Printf("No");
```

ix. Find the errors:

```
if(x = 1 or 2)
printf (" % d ", x );
```

4. Write short answers to any SIX questions: 12

C-Language

i. Compare getch and getche functions.
ii. What is use of format specifier?
iii. Define standard input.
iv. Define function body.
v. What is lifetime of local variable?
vi. Define stream in file handling.
vii. Determine output of following code:

```
int x = 1;
int y = 10;
while (x < = 5 \\ y > = 1) {
printf (" %d – %d ", x , y);
x = x + 1;
y = y – 1;
}
```

viii. Determine output of following code:

```
int i;
for (i = 1; i < = 10; i + + )
Printf (" %d  %d ", i , i * i);
```

ix. Trace out errors from following code:

```
int k = 1
while (k < = 5 );
{
k = k +1
printf (' % C ' k)
}
```

(Turn Over)

GUJ-21

MS-ACCESS

Note: Attempt any ONE question of the following:

5.   Describe four objectives and four features of database management system.   (8)

6.   When is a relation in 2nd normal form? Explain with example.   (8)

(SECTION – III)

Note: Attempt any TWO questions of the following:

C – LANGUAGE

7.   What is programming language? Discuss the two main categories of programming languages.   2+3+3 (8)

8.   Explain nested if statement with its purpose, syntax, flow chart and suitable program example.   (8)

9.   Write down a program that produces the following output: (8)

0	1
1	2
2	4
3	8
4	16
5	32
6	64

324-421-32000