Number: 4835 **INTERMEDIATE PART-II (12th CLASS)**

COMPUTER SCIENCE **PAPER-II** MTN-I-21

TIME ALLOWED: 20 Minutes **OBJECTIVE** MAXIMUM 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 bubble in front of that question number, on bubble sheet. Use marker or pen to fill the bubbles. Cutting or filling two or more bubbles will result in zero mark in that question. No credit will be awarded in case BUBBLES are not filled. Do not solve question on this sheet of OBJECTIVE PAPER.

Q.No.1

MS-ACCESS

(1) An entity related to itself in an ERD Model refers to:

(A) One-to-many relationship (B) Recursive relationship
(C) Many-to-many relationship (D) One-to-one relationship

(2) Different attributes in two different tables having same name are referred to as:

(A) Synonym (B) Acronym (C) Mutually exclusive (D) Homonym

(3) A database consists of various components called the:

(A) Tool (B) Properties (C) Objects (D) Entities

(4) In a relational database, a single piece of information is called:

(A) Field (B) Record (C) Entity (D) Tuple

(5) SQL stands for:

(A) Unstructured Language (B) Structured Query Language
(C) Object Oriented Language (D) Software

(6) Who is responsible to design, implement and maintain a databases?

(A) Database administrator (B) End users (C) Application programmer (D) Web designer

C-LANGUAGE

(7) Which of the following data type offers the highest precision?

(A) float (B) long int (C) long double (D) unsigned long int

(8) The escape sequence for new line:

(A) \n (B) \t (C) \b (D) \f

(9) The format specifier % c is used for

(A) Integers (B) float (C) double (D) character

(10) How many kinds of control structures are there to organize program instructions?

(A) 3 (B) 2 (C) 4 (D) 5

(11) Which of the following is a loop statement?

(A) while (B) if (C) if-else (D) nested if

(12) printf( ) is a:

(A) local function (B) user defined function (C) keyword (D) built-in function

(13) Every C program must have:

(A) scanf function (B) getche function (C) main function (D) print function

(14) Turbo C++ can compile:

(A) Assembly program (B) C++ programs only (C) Machine program (D) C and C++ programs

(15) Which of the following is a valid character constant?

(A) "b" (B) *a* (C) ' 6 ' (D) =

COMPUTER SCIENCE PAPER-II MAY-21

TIME ALLOWED: 2.10 Hours **SUBJECTIVE** MAXIMUM MARKS: 60

NOTE: Write same question number and its part number on answer book, as given in the question paper.

SECTION-I

2. Answer briefly any Six parts from the following: **6 × 2 = 12**

MS-ACCESS

(i) What do you mean by composite key?
(ii) Define End User.
(iii) Write the purpose of Modality.
(iv) Describe Project Planning.
(v) List advantages of MS-ACCESS.
(vi) How MS-ACCESS existing from Windows?
(vii) What are relationships?
(viii) Write two differences between relationship and join.
(ix) Define Tabular form.

3. Answer briefly any Six parts from the following: **6 × 2 = 12**

C-LANGUAGE

(i) What are Syntax Errors?
(ii) What is #include Directive? Give an example.
(iii) Differentiate between Linker and Loader.
(iv) What are Logical operators? Name any two.
(v) What are Identifiers?
(vi) Write two rules for Naming Variables.
(vii) Find error:

```
int x;
scanf ('%d", sx);
if (x%2 = 0)
printf ("Even Number")
```

(viii) Trace output:

```
int price = 19;
if (price! = 10)
printf ("Yes");
```

(ix) Trace output:

```
int x = 1, y = 2, z = 3;
if ((x ==y) ||(y ==z)||(z==2))
printf("Yes");
else
printf("No");
```

4. Answer briefly any Six parts from the following: **6 × 2 = 12**

C-LANGUAGE

(i) List any four escape character provided by C.
(ii) Write down the use of "getch" function.
(iii) Why is the ampersand (&) used in scanf function?
(iv) Predict the output of the following code segment:

```
int n;
for (n = 1; n < = 12; n = n + 4)
printf("%d",n);
```

(v) Predict the output of the following code segment:

```
int x = 3;
while (x < = 12)
{
printf ("x is %d \n", x);
x = x + 2;
}
```

(vi) Find the errors from the following code segment:

```
int x = 1;
while (x < = 6);
{
printf ("%d" x);
x++;
}
```

(vii) Define function.
(viii) Compare local and global variable.
(ix) Define Newline marker.

SECTION-II

NOTE: Attempt any one question. **8 × 1 = 8**

MS-ACCESS

5. Define database model. Discuss different types of database models.
6. What is normalization? Explain three forms of normalization.

SECTION-III

NOTE: Attempt any two questions. **8 × 2 = 16**

C-LANGUAGE

7. Define programming language. Describe the characteristics of high level programming languages.
8. Write the general form of if statement with multiple alternatives. Draw flow chart and explain its working?
9. Write a program that get starting and ending numbers then print counting in between these numbers using while loop.