Computer Science (Subjective)

Time: 02:10 Hours Marks: 60

SECTION – I

2. **Write short answers to any SIX parts.** 12

(MS – Access)

(i) Define entity.
(ii) Differentiate between parent table and dependent table.
(iii) Define ER-Diagram.
(iv) What is project planning?
(v) Define RDBMS.
(vi) Name four database objects in Microsoft Access.
(vii) Name different types of queries.
(viii) Define the term cardinality of relation.
(ix) List different types of forms in Microsoft Access.

3. **Write short answers to any SIX parts.** (C – Language) 12

(i) What do you mean by delimiters?
(ii) Define debugging.
(iii) What is the purpose of # sign in C ?
(iv) Define string constant. Give two examples.
(v) List any two data types in C.
(vi) Differentiate between unary and binary operators.
(vii) Determine the output of the given code:

```
int a = 1;
int b = 6;
if ( a + b < 7 )
   printf ( " % d " , a );
else
   printf ( " % d " , b );
```

(viii) What will be the output of the given code?

```
int a, b, c;
a = 10;
b = 3;
if ( a % b = = 1 )
   c = 0;
else
   c = 1;
   printf ( " % d " , c ) ;
```

(ix) Find the errors in the given code:

```
int a = 2
if ( a = 1 )
   printf ( " Ok " ) ;
Else
   printf ( " Cancel " ) ;
```

4. **Write short answers to any SIX parts.** (C – Language) 12

(i) Define standard input.
(ii) List two names of functions used for character input.
(iii) Find the errors in the following code segment:

```
for ( x = 1 , x <= 5 , x + + )
printf ( " % d " ; x )
```

(iv) Determine the output of the following code segment:

```
int n;
for ( n = 1 ; n <= 5 ; n + + )
printf ( " % d \ n " , n ) ;
```

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

```
int k = 1;
while ( k <= 5 )
{
   printf ( " Yes " ) ;
   k + + ;
}
```

(vi) Define text stream.
(vii) What is the lifetime of local variable?
(viii) Define function body.
(ix) Write the use of field width specifiers in C-Language.

SECTION – II Each question carries 08 marks.

(MS-Access) Attempt any ONE question from the following:

5. Define database model. Discuss different types of database models.
6. What is first normal form? Explain it in detail.

(C – Language) Attempt any TWO questions from the following:

7. Describe characteristics of high-level programming languages.
8. What is control structure? Briefly describe the basic control structure for writing programs. 02,06
9. Write a program that inputs a number and print its table using loop.