## B.C.A. Part–I (Semester–II) (Old) Examination

## ADVANCED C

Time : Three Hours]                                        [Maximum Marks : 60

**Note :—** (1)   All questions are compulsory.

(2)   All questions carry equal marks.

(3)   Use suitable diagram wherever necessary.

1.   (A)   What is string ? Explain declaration and initialization of string variable with example.        6

(B)   Explain the following with example :        6

(i)     strcmp( )

(ii)    strrev( )

(iii)   strcat( )

**OR**

2.   (A)   Explain the following function with syntax and example :        6

(i)     gets( )

(ii)    strstr( )

(iii)   strset( )

(B)   Explain array of pointers to string with example.        6

3.   (A)   What is user defined function ? Explain the format of user defined function with suitable example.        6

(B)   Explain function recursion with suitable example.        6

**OR**

4.   (A)   Explain the catagories of functions on the basis of return values and their types with example.   6

(B)   Explain function prototype with example.        6

5.   (A)   Explain structure declaration and initialization with syntax and example.        6

(B)   What is union ? How it differs from structure ?        6

**OR**

6.   (A)   Write a program in C to define a structure and initialize its member variables.        6

(B)   Explain nested structure with example.        6

7.   (A)   What is opening a file ? Explain different file opening modes with example.        6

(B)   Explain the following functions with example :        6

(i)     getw( )

(ii)    putw( )

(iii)   fgete( )

**OR**

8. (A) Write a program to write mixed type data into the file using of fprintf function and read same data from file using fscanf function. 6

   (B) Explain the following functions with example : 6

   (i) fgets( )

   (ii) fputs( )

   (iii) fread( )

9. (A) Explain random access file with example. 6

   (B) Explin error handling functions feof( ) and ferror( ) with example. 6

**OR**

10. (A) Explain the following functions with example : 6

   (i) fseek( )

   (ii) ftell( )

   (iii) frewind( )

   (B) Explain the following functions with example : 6

   (i) alloc( )

   (ii) malloc( )

   (iii) circle( )