AT–430

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

ADVANCED C

Paper : 2ST2

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) How to declare and initialize string variables in C ? Explain. 6

   (b) Explain the concept of Array of pointer to strings. 6

OR

2. (a) Explain the following string functions :

   (i) strlen ( )

   (ii) strupn ( )

   (iii) strcat ( ) 6

   (b) Write a program in C, to generate the following output using a single string variable.

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3. (a) Write a program in C to swap two numbers using pointer and function technique. 6

   (b) Explain in detail with suitable example function recursion. 6

OR

4. (a) Write a program to find greatest out of 3 given integers using function. 6

   (b) Explain with syntax and suitable example function definition and function prototype. 6

5. (a) Explain the syntax of structure declaration. Also write suitable example for structure declaration and defining structure variable. 6

(b) How pointer can be used with structures ? Explain with suitable example. 6

OR

6. (a) Compare structure and union with suitable example. 6

(b) What is array of structure ? How does a structure differ from an array ? Explain. 6

7. (a) Write C program using file to create an address list of 10 different employees. 4

(b) Explain fopen ( ) and fclose ( ) functions. 4

(c) Distinguish between printf ( ) and fprintf ( ). 4

OR

8. (a) Explain with example opening and closing of a file. 4

(b) Distinguish between scanf ( ) and fscanf ( ). 4

(c) Explain the following functions with suitable example :

(1) fread ( )

(2) fwrite ( ) 4

9. (a) What is dynamic allocation of memory ? Explain its advantages over static memory allocation. 4

(b) Explain with example fseek ( ) and ftell ( ). 4

(c) What is the importance of computer graphics ? Explain the two modes of graphics. 4

OR

10. (a) Write a program in C to draw a circle of radius given by the user. 6

(b) Explain the following function in detail :

(1) feof ( )

(2) ferror ( ) 6