

10. a) Explain dynamic allocation of memory with malloc( ) and calloc( ) functions.

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b) Explain feof and ferror function with suitable example.

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AR - 0635

B.C.A. Part - I Semester - II

**2ST2 : Advanced C**

P. Pages : 4

Time : Three Hours

Max. Marks : 60

- Notes :
1. All question carry equal marks.
  2. Draw neat sketches wherever necessary.
  3. Assume suitable data wherever necessary.

1. a) How to declare and initialize. String variable in C? Explain with example. **6**
- b) Explain following functions with example. **6**
  - i) Strcpy
  - ii) Strupr
  - iii) Strcat

**OR**

2. a) Write a program to read two strings using gets function & compare two string using strcmp & print the output that the first string is equal, Less or greater than 2<sup>nd</sup> string. **6**

- b) Explain following functions with example. **6**  
 i) Strstr  
 ii) Strset  
 iii) Strrev

3. a) Explain function proto type with example in detail. **4**

b) Explain function recursion & write a program to calculate factorial of a number using recursion. **8**

**OR**

4. a) Explain local and Global variable with example. **4**

b) Explain pointer to function with example. **8**

5. a) Explain nesting of structure with suitable example. How will you access innermost member from it? **6**

b) Explain union with example. How, unions are declared? **6**

**OR**

6. a) Explain structure declaration & initialization with example. **6**

b) Explain pointer to structure with example. **6**

7. a) How to open & close file in C? Explain with example. **6**

b) Write a program that uses the function fread( ) & fwrite( ) to read & write data into the file. **6**

**OR**

8. a) Write a program to store 1 to 20 natural numbers into the file. Read only odd & even numbers from file & write it into two files using getw & putw functions. **6**

b) Explain fscanf( ) & fprintf( ) function with example. **6**

9. a) Explain following functions with suitable example. **6**

- i) Ftell  
 ii) Fseek  
 iii) Frewind

b) What is graphics? Write a program to print Line on the screen. **6**

**OR**