

**First Year B.C.A (Semester - II ) Examination**  
**Paper - 15BCA109**  
**Advanced C**

Time : Three hours]

[Full Marks - 60

- N.B. :**
- i) All questions carry equal marks
  - ii) Question No. 1 is compulsory
  - iii) Due credit will be given to neatness & adequate dimensions.
  - iv) Use Blue/Black ink/refill only for writing the answer book.

**Q.1** Rewrite the following sentences using correct option. 5

- a) The keyword used to transfer control from a function back to calling function is \_\_\_\_\_
- i) Switch ( )
  - ii) goto ( )
  - iii) goback ( )
  - iv) return ( )
- b) The similarity between a structure and union is \_\_\_\_\_
- i) Both of them define new value
  - ii) Both of them define new data type
  - iii) Both of them define new pointer
  - iv) Both of them define new structures
- c) If the two strings are identical, then strcmp ( ) function returns
- i) -1
  - ii) 1
  - iii) 0
  - iv) Yes
- d) Which of the following operation can be performed on the files "Notes.txt" using the below code.
- ```
FILE * fp  
fp = fopen("Notes.txt", "r+")
```
- i) Reading
  - ii) Writing
  - iii) Appending
  - iv) Read and write

e) For drawing any graphics on screen we need a header file.

- i) Graphics.h                      ii) math.h
- iii) Graphics.lib                  iv) None

- Q.2 a) Explain following with proper example.                      6
- i) call by value
  - ii) call by reference
- b) What is function ? Explain with proper example.                      5

OR

- Q.3 a) How to declare function ? Explain different prototypes.                      5
- b) Explain concept of recursion with proper example.                      6
- Q.4 a) Explain the concept of structure with proper example.                      6
- b) Write any five differences between structure and union.                      5

OR

- Q.5 a) Explain how the structure elements are stored.                      5
- b) Explain Self Referential structure with proper example.                      6
- Q.6 a) What is String ? How to declare it ? Explain with proper example.                      5
- b) Explain following with proper example.                      6
- i) strcpy ( )
  - ii) strcmp ( )
  - iii) strcat ( )

OR

- Q.7 a) Write program in C to concatenate "Nagpur" and "Mumbai"                      5
- b) Explain following functions with proper example.                      6
- i) strlen ( )    ii)strup ( )    iii)strrev ( )
- Q.8 a) Explain following function with proper example.                      6
- i) rewind ( )    ii)fseek ( )    iii)fread ( )
- b) Write a program to open file & write in a file.                      5

OR

- Q.9 a) Explain different file opening modes with proper example.                      5
- b) Explain:                      6
- i) fgets ( )                      ii) fopen ( )
  - iii) fclose ( )
- Q.10 a) Write program in C to draw a circle.                      5
- b) Explain following function with proper example.                      6
- i) putpixel ( )
  - ii) line ( )
  - iii) circle ( )

OR

- Q.11 a) Write C program to draw line.                      5
- b) Explain different functions used for filling object by colour.                      6

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