

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

Time : Three hours]

[Full Marks - 60

- N.B. :**
- i) *Due Credit will be given to neatness and adequate dimensions.*
 - ii) *Assume Suitable data wherever necessary.*
 - iii) *Illustrate your answer if necessary, with the help of neat sketches.*
 - iv) *Use Blue / Black ink only for writing the answers.*

Q.1 Choose correct options from given alternatives. 5

- 1) Function declaration is also known as ____
 - i) Function prototype ii) Function call
 - iii) Function recursion iv) Call by value
- 2) A set of logically related heterogeneous elements under a common name is called ____
 - i) Pointer ii) Structure
 - iii) String iv) Array
- 3) The ____ function is used to count length of string.
 - i) strlen () ii) strcmp ()
 - iii) strcat () iv) toupper ()
- 4) The ____ function is used to close a file.
 - i) fopen () ii) fclose ()
 - iii) fscanf () iv) fread ()
- 5) The ____ function is used to change background colour of an object.
 - i) Setfillcolor () ii) setbkcolor ()
 - iii) floodfill () iv) initgraph ()

- Q.2 a) What is Function ? Explain the function prototype with suitable example. 5
 b) Explain the function types depending on arguments and return values. 6

OR

- Q.3 a) Explain :- 6
 i) function recursion
 ii) function pointer
 b) Explain the function calling with suitable example. 5
- Q.4 a) What is Structure ? How it is declared and initialized ? Explain with proper example. 5
 b) Explain :- 6
 i) Structue pointer
 ii) Array of structure

OR

- Q.5 a) Explain the nested structure with proper example. 5
 b) What is Union ? How Union variables are declared ? Explain with proper example. 6
- Q.6 a) What is String ? How does a string variable declared an initialized ? Explain with proper example. 5
 b) Explain any 2 string function in C with proper example. 6

OR

- Q.7 a) Write functions with syntax and proper example to convert string to uppercase and lowercase. 6
 b) Write a program to concatenate any 2 strings. 5

- Q.8 a) Write a program to convert contents of a file in uppercase. 5
 b) State and explain the syntax and proper example for following. 6
 i) fgetc () ii) fclose () iii) fscanf ()

OR

- Q.9 a) Explain the open and close operations on file. 6
 b) What do you mean by file opening modes ? Explain. 5
- Q.10 a) What are the graphics objects available in C ? Explain. 6
 b) Write a program to fill colour in a circle. 5

OR

- Q.11 a) Explain the following with proper example. 6
 i) floodfill () ii) setbkcolor ()
 b) State and explain the use of initgraph with proper example. 5
