BCA
(SEM. II) EXAMINATION, MAY, 2019
BCA-201 (N) : C PROGRAMMING

Time : Three Hours   Maximum Marks : 75

Note : Attempt questions from *all* Sections as directed.

Inst. : The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

SECTION – A
(Short Answer Type Questions)

Note : All questions are compulsory. Each question carries 3 marks.

1. (A) Define a one-dimensional integer array of five elements with initialization. What will be the size of this array?

   (B) If an array is not initialized, what does it contain? If integer array is defined as STATIC, what does it contain by default, if not initialized?

   (C) What is a string? Declare and initialize a string "Computer".

   (D) Write a program to display array elements with their address using an array name as a pointer. (Code fragment is shown below, fill in the reaming part where specified).

   ```
   void main ();
   {int num [4] = {10, 25, 35, 45}
   _]
   _
   _}  complete with proper variable declaration
   _
   _]
   ```
   and loop structure
   }

   (E) Suppose in a program the following array is defined.
   int array [5] = {10, 20, 30, 40, 50};
   What will be the output of the following print statement :
   printf("%d\t,", "%d\t", "%d\t", arr[1], *(arr+2));

   (F) Declare a structure of a student. Declare an array of structure for a-class strength of 60 students.

   (G) How union differs from structure?

   (H) What is a file? What is the benefit of using file? Discuss different operations on file.

   (I) What is preprocessor directive? Show the use of macro with an example.

SECTION – B
(Long Answer Type Questions)

Note : Attempt *any two* questions. Each question carries 12 marks.

2. Discuss the following 'C' standard library functions with proper arguments return type and meaning with proper illustration. Strlen (), Strcpy (), Strcmp (), Strcat ()

3. (a) Using insertion sort, write a program in 'C' to sort an array of 10 elements to be entered by user

   (b) Write a program in 'C' to display the maximum value of array entered by user.

4. (a) Write a program to reverse the string entered by user without using standard string library function.

   (b) Using pointer, write a program to concatenate two string entered by user.

5. What is dynamic memory allocation? Using the standard function for this, enter 10 numbers by user and find the average of those numbers. Do not use array.

SECTION – C
(Long Answer Type Questions)

Note : Attempt *any two* questions. Each question carries 12 marks.

(a) WAP in C to enter full name (with Fname, Name) and date of birth (day, month, year) and display the same. Use the nested structure.

(b) Declare a structure pointer to structure book with attributes bname, author, pages with proper data type declarations. Using the above declaration, WAP to display the content of structure above.

(a) What is typedef? Show that use with a proper example.

(b) What is enumerated data type with a proper example?

(a) WAP to write data to text file "abc.txt" then read and display the content of the file.

(b) Discuss bitwise operator and shift operator with example.

Show the meaning of the following functions with example (proper syntax) :
fopen ( )
fseek ( )
re wind ( )
fgetc ( )

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