

Roll No.

Total Pages : 03

OBCA/D-20

1228

'C' PROGRAMMING-II

BCA-231

Time : Three Hours]

[Maximum Marks : 80

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

(Compulsory Question)

1. (a) Name the library function to find the length of the string. Give example.
- (b) Write a note on enumeration.
- (c) Write the purpose of size of operator in pointers.
- (d) What are the operations permissible on pointers ?
- (e) Name the function for reading a single character from a file.
- (f) Differentiate between printf and fprintf.
- (g) Draw a comparison between #def and #if directives.
- (h) Write the purpose of #include directives. **8×2=16**

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Unit I

2. (a) What do you mean by string ? Differentiate between string constant and string variable. Explain strcmp(),strupr(), getche() and puts() function by giving suitable example.
(b) Write a program in C to concatenate two strings. **10+6=16**
3. (a) How does a structure differ from an array ? How can an entire structure be passed to a function ?
(b) What is meant by nesting of structure ? Discuss the only restriction that applies to the nesting of structures. **8+8=16**

Unit II

4. What is a pointer ? Explain, how the pointer variables declared and initialized ? Write a C program to swap two numbers using call by pointers method. **16**
5. Explain the following with suitable example :
(a) Pointer conversion
(b) Dynamic allocation using pointers. **8+8=16**

Unit III

6. What is a File ? Discuss different types of file. Explain with an examples the different operations may be performed on a file. **16**

7. Discuss random-access I/O in files. Explain the following file functions with examples : **16**
- (a) `fseek()` (b) `read()`
 - (c) `fgets()` (d) `fscanf()`
 - (e) `feof()`.

Unit IV

8. What precautions one should take when using macros with arguments ? Explore the disadvantages in use of a macro. **16**
9. Write notes on the following : **8+8=16**
- (a) Command line arguments
 - (b) Macro *versus* functions.