**Roll No: ………………………….**

**Hi-Tech Institute of Engineering & Technology**

**DEPARTMENT OF BCA**

**Course- BCA**

**(SEM - 2) EVEN SEMESTER MODEL TEST PAPER**

**Subject Code: BCA-202 Subject Name: C-Programming**

**TIME : 3 hrs Maximum Marks:75**

**Faculty Name: Desh Deepak Gupta**

**Note: Attempt all the sections as per instructions.**

**SECTION A  
Note : Attempt all questions. 3\*5=15**

|  |  |  |  |
| --- | --- | --- | --- |
| **1.** | **What do you mean by dangling pointer?** |  |  |
| **2.** | **How Union is different from a structure?** |  |  |
| **3.** | **Explain the difference between malloc() and calloc()function?** |  |  |
| **4.** | **Differentiate between string and character array?** |  |  |
| **5.** | **Describe the use and limitation of the function getc.** |  |  |

**SECTION-B**

**Note : Attempt any two questions. 7.5\*2=15**

**6. Write a program to short an array?**

|  |  |  |  |
| --- | --- | --- | --- |
| **7.** | **Describe the three logical bitwise operators what is the**  **purpose of each? what types of operands are required by**  **each of the logical bitwise operators?** |  |  |
| **8.** | **Write short notes on the following**   1. **Strlen** 2. **Strcat** 3. **Strcmp** 4. **Strcpy** |  |  |

**SECTION C  
Note : Attempt any three questions. 15\*3=45**

|  |  |  |  |
| --- | --- | --- | --- |
| **9.** | **a. Main is user defined function .How it is different from other**  **user defined functions?**  **b. How is a multidimensional array defined in terms of array**  **pointers? What does each pointer represent ?How does this**  **definition differ from a pointer to a collection of contiguous**  **arrays of lower dimensionality.** |  |  |
| **10.** | **a. What do you understand by EOF ?Write a program to read a**  **text-file,convert all the lower case characters into upper**  **case.**  **b.What is a masking operation? what is purpose of each**  **operdand?Which operand is the mask, how it is chosen?** |  |  |
| **11.** | **a. Write short notes on the followings**  **i).fseek()**  **ii).fgetc()**  **iii)fscanf()**  **iv.fewind()**  **b. What is the macro?Write the difference between object-**  **macro and function-macro with example.** |  |  |
| **12.** | **a.What are important points to be considered when**  **implementing Bit-fields in structures?**  **b.Write a program to swap two numbers using pointer and**  **structure.** |  |  |
| **13.** | **a.Explain different types of files in file handling and what are**  **different modes to open a file?**  **b.Write a program to explain the use of structure with function.** |  |  |