**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**

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| --- | --- | --- | --- |
| **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?**

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| --- | --- | --- | --- |
|  **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**

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| --- | --- | --- | --- |
| **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.** |  |  |