Reg.No. \_\_\_\_\_\_\_\_\_\_\_\_



**UNIVERSITY**

(Karunya Institute of Technology & Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**End Semester Examination – Nov/Dec – 2016**

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|  |  | **Semester :** | **2016-17 ODD** |
| **Code :** | **15CS3002** | **Duration :** | **3hrs** |
| **Sub. Name :** | **PERL Programming for Biological Applications** | **Max. marks :** | **100** |

**ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. |  | Discuss about the different properties of file obtained using the stat function. | CO1 | **20** |
| **(OR)** | | | | |
| 2. | a. | What are regular expressions? | CO1 | **10** |
| b. | Discuss about different character classes in regular expression | **10** |
| 3. | a. | What is hash? | CO2 | **5** |
|  | b. | Design a hash table and show how to accesses different elements of hash table? | **15** |
| **(OR)** | | | | |
| 4. | a. | What are file handlers used for? | CO2 | **14** |
|  | b. | What are different file handling options provided in PERL? | **`6** |
| 5. | a. | What are subroutines? | CO2 | **6** |
|  | b. | How to invoke a subroutine by passing an argument to it? | **7** |
|  | c. | Design the subroutine so as to obtain the return value to calling function. | **7** |
| **(OR)** | | | | |
| 6. |  | With proper example explain the working of | CO2 |  |
|  | a. | if | **6** |
|  | b. | ifelse | **7** |
|  | c. | ifelsif | **7** |
| 7. |  | Using the Socket module build the sending and receiving program. Give the detailed explanation for the working of program. | CO3 | **20** |
| **(OR)** | | | | |
| 8. |  | Discuss in detail about Bioperl. Write a bioperl program to perform a biological task. | CO3 | **20** |
| **Compulsory:** | | |  |  |
| 9. |  | Discuss the steps for generating report using PERL with suitable example. | CO3 | **20** |

ALL THE BEST