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



**End Semester Examination – Nov / Dec – 2019**

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| **Code :** | **14BI2006** | **Duration :** | **3hrs** |
| **Sub. Name :** | **PERL AND PYTHON PROGRAMMING** | **Max. Marks :** | **100** |

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

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| **Q. No.** | **Sub Div.** | **Questions** | **Course**  **Outcome** | **Marks** |
| 1. | a. | Discuss in detail about the various operators in Perl programming with suitable examples. | CO1 | 10 |
| b. | Elaborate on scalar variables and its associated functions in Perl programming with an example program. | CO1 | 10 |
| **(OR)** | | | | |
| 2. | a. | Write a Perl program to define the usage of Hashes in Perl programming. Use all Hash functions in your program and show its output. | CO1 | 10 |
| b. | List and explain the functions of array in Perl programming with necessary programs. | CO1 | 10 |
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| 3. |  | Discuss the various control structures of Perl programming that control the flow of the programming execution. Give the proper syntax and explain with the flow chart. | CO1 | 20 |
| **(OR)** | | | | |
| 4. | a. | Compare and contrast the various regular expression statements of Perl programming. | CO2 | 10 |
| b. | Write a Perl program to copy a file from one location to another. | CO2 | 10 |
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| 5. | a. | Explain any 5 string operations in Python programming and show its syntax with a code snippet. | CO2 | 10 |
| b. | Elaborate the various numerical operators available in Python programming with an example program. | CO2 | 10 |
| **(OR)** | | | | |
| 6. | a. | Differentiate list and tuple in python programming. Explain its functionalites with example programs. | CO2 | 10 |
| b. | Write a python program to show the different ways to get input from the user and to display the output. | CO2 | 10 |
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| 7. | a. | Elaborate user defined functions in Python program by creating sample functions in a program and explore the different argument passing ways of Python. | CO3 | 15 |
| b. | Show the syntax to import a package or a module in a python programming. | CO3 | 5 |
| **(OR)** | | | | |
| 8. | a. | Paraphrase the different looping statements in Python programming with example programs. | CO3 | 10 |
| b. | Discuss the file handling methods in python programming with necessary syntax. | CO3 | 10 |
|  | | **Compulsory**: |  |  |
| 9. |  | Elaborate on designing a class in Python programming and write the python code for the following:   1. Create a class called *Arith\_Calculator* 2. Define a constructor to initialize two variables (*num1* & *num2)* 3. Define four user defined function inside the class namely *Add, Sub, Mul, Div,* and *Modulus*to perform appropriate arithmetic operations 4. Create an object for the class to access the class properties. 5. Delete the properties of the object and finally delete the object. | CO3 | 20 |