**18EI506**

**Hall Ticket Number:**

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| **III/IV B.Tech(Regular) DEGREE EXAMINATION** | | | |
| **February, 2021** | **Electronics and Instrumentation Engineering** | | |
| **Fifth Semester** | **Python Programming** | | |
| **Time:** Three Hours | | **Maximum:**50 Marks | |
| *Answer ALL Questions from PART-A.* | | | (10X1 = 10 Marks) |
| *Answer* ***ANY FOUR*** *questions from PART-B.* | | | (4X10=40 Marks) |

**Part - A**

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| --- | --- | --- | --- | --- |
| I | a. | What is the difference between script and program? | 10x1 = 10M | |
|  | b. | what is an interpreter? | |  |
|  | c. | Define tuple? | |  |
|  | d. | what is the significance of negative index in python? | |  |
|  | e. | Define encapsulation? | |  |
|  | f. | Define polymorphism? | |  |
|  | g. | What is the use of break and continue in python? | |  |
|  | h. | How do you create a class in python? | |  |
|  | i. | What is a constructor? | |  |
|  | J | What is an exception in python? | |  |
|  |  |  | |  |
| 2. | a. | Explain the concepts of object oriented programming? | |  |
|  | b. | Explain the various data types in python with e=suitable examples? | |  |
|  |  |  | |  |
| 3. | a. | Explain clearly the string data type in python with suitable examples? | | 5M |
|  | b. | Write python program to test the given string is palindrome string or not? | | 5M |
|  |  |  | |  |
| 4. | a. | Explain the control structures of the python clearly with simple examples. | | 5M |
|  | b. | What is a constructor? Explain about various types of constructor with examples? | | 5M |
|  |  |  | |  |
| 5. | a. | Explain about dictionaries in python with examples? | | 5M |
|  | b. | What is an exception? How do you create custom exceptions in python? | | 5M |
|  |  |  | |  |
| 6 | a. | What is a function ? Explain about functions in python with suitable examples? | | 5M |
|  | b. | Write function to generate febonacci numbers?  (ex : 0,1,1,2,3,5,8,13,….) | | 5M |
|  |  |  | |  |
| 7. | a. | Write about math standard modules with suitable examples? | | 5M |
|  | b. | Write a python program to find the sum of the following numbers  S = 7 + 77 + 777 + 7777 +… up to 10 terms. | | 5M |
|  |  |  | |  |
| 8 | a. | Differentiate between key words and operational parameters in python? | | 5M |
|  | b. | Write a function to search a key in the given sorted array using binary search method? | | 5M |
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| 9. | a. | Explain the data streams of python? | | 5M |
|  | b. | Write a python program to read a file file and display on the standard output? | | 5M |

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