SRINIVASA RAMANUJAN INSTITUTE OF TECHNOLOGY::ANANTHAPURAMU

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

***Assignment-I***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Course Title:** | **DISCRETE MATHEMATICS** | | | | **Course Code:** | **R204GA05401** |
| **Class & Sem:** | **II B.Tech II SEM** | | | | **Regulations:** | **SRIT-R20** |
| **Course Structure:** | **Theory** | **Tutorial** | **Lab** | **Credits** | **Core/Elective:** | **Core** |
| **4** |  |  | **2** |
| **Instructor 1:** | **Mr. M. Narasimhulu** | | | **Instructor 2:** |  | |

**Assignment Questions: Academic Year: 2022-23**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Questions** | **Marks** | **CO** | **Cognitive Level** |
| Unit-I | | | | |
| **1** | Classify Equivalence Formulas and implications. | 2 | CO1 | Remember |
| **2** | Define PDNF and obtain Principal Disjunctive Normal Form (¬𝑃 ∨ ¬𝑄) → (𝑃 ↔ ¬𝑄). | 2 | CO2 | Understand |
| Unit-II | | | | |
| **3** | Let FX be the set of all one to one, onto mappings from X onto X where X= {1,2,3) Find all the elements of FX and find the inverse of each element. | 2 | CO3 | Understand |
| 4 | Illustrate Lattices and its properties. | 2 | CO3 | Understand |
| Unit-III | | | | |
| **5** | Define a semigroup and monoid. Give an example of a monoid, which is not a group. Justify the answer. | 2 | CO4 | Understand |

* Last date for submitting Assignment-1: **21-04-2023**
* Also, Put the Submitted Copy in Google Class Room once Evaluation is completed.

SRINIVASA RAMANUJAN INSTITUTE OF TECHNOLOGY::ANANTHAPURAMU

DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING

***Assignment-II***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Course Title:** | **DISCRETE MATHEMATICS** | | | | **Course Code:** | **R204GA05401** |
| **Class & Sem:** | **II B.Tech II SEM** | | | | **Regulations:** | **SRIT-R20** |
| **Course Structure:** | **Theory** | **Tutorial** | **Core** | **Credits** | **Core/Elective:** | **Core** |
| **4** |  |  | **2** |
| **Instructor 1:** | **Mr. M. Narasimhulu** | | | **Instructor 2:** |  | |

**Assignment Questions: Academic Year: 2022-23**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Q. No.** | **Questions** | **Marks** | **CO** | **Cognitive Level** |
| Unit-III | | | | |
| **1** | Write the Euclidean algorithm with an example | 2 | CO4 | Apply |
| Unit-IV | | | | |
| **2** | Explain the permutations and combinations with an example. | 2 | CO5 | Apply |
| 3 | Explain pigeonhole principle and its applications. | 2 | CO5 | Apply |
| Unit-V | | | | |
| **4** | Write the algorithms for spanning trees with an example. | 2 | CO6 | Apply |
| **5** | Define K- regular graph. Give examples of 2- regular, 3- regular, 4- regular graphs. | 2 | CO6 | Apply |

* Last date for submitting Assignment-2: **05-06-2023**
* Also, Put the Submitted Copy in Google Class Room once Evaluation is completed.