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**SRINIVASA RAMANUJAN INSTITUTE OF TECHNOLOGY**

**SRIT R19**

**(AUTONOMOUS)**

III B. Tech II Sem – Continuous Internal Examinations II – Jun 2022

**AI Tools, Techniques AND Applications**

**[194GA05603]**

(Computer Science & Engineering)

**Time: 2 hours** S**ET – 1 Max. Marks: 30**

**Answer the following questions**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Q. No** | | **Questions** | **Unit** | **Marks** | **CO** | **Cognitive Level** |
| 1 | a) | Define Face Recognition. | 3 | 2 | CO4 | Remember |
| b) | Define Deep Learning. | 4 | 2 | CO5 | Remember |
| c) | Advantages of AI in Transportation. | 5 | 2 | CO6 | Remember |
| **UNIT-3** | | | | | | |
| 2 | a) | Explain the Applications of Fouriers Transformation. | | 4 | CO4 | Understand |
| b) | Explain Different methods for Object Detection. | | 4 | CO4 | Understand |
| **OR** | | | | | | |
| 3 | a) | Explain steps for Face recognition. | | 4 | CO4 | Understand |
| b) | List the advantages of Face detection. | | 4 | CO4 | Understand |
| **UNIT-4** | | | | | | |
| 4 |  | Explain different types Activation functions. | | 8 | CO5 | Understand |
| **OR** | | | | | | |
| 5 |  | Explain Working Structure of Recurrent Neural Networks. | | 8 | CO5 | Understand |
| **UNIT-5** | | | | | | |
| 6 |  | Illustrate the Implementation of Smart Agriculture Using AI. | | 8 | CO6 | Apply |
| **OR** | | | | | | |
| 7 |  | Illustrate the Implementation of Smart AI Transportation and Autonomous Vehicles Using AI. | | 8 | CO6 | Apply |

**Prepared by**

Name of the Faculty: Dr.G.K.Venkata Narasimha Reddy, Professor , Dept Of CSE.

Signature of the Faculty:

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**Time: 2 hours** S**ET – 2 Max. Marks: 30**

**Answer the following questions**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Q. No** | | **Questions** | **Unit** | **Marks** | **CO** | **Cognitive Level** |
| 1 | a) | What is meant by segmentation in Image processing? | 3 | 2 | CO4 | Remember |
| b) | What is Overfitting? | 4 | 2 | CO5 | Remember |
| c) | List the different Robots used in Smart Agriculture. | 5 | 2 | CO6 | Remember |
| **UNIT-3** | | | | | | |
| 2 | a) | Explain the properties of Fouriers Transformation. | | 4 | CO4 | Understand |
| b) | Explain techniques for Face recognition. | | 4 | CO4 | Understand |
| **OR** | | | | | | |
| 3 | a) | Explain different types of Noise in Image Processing with example. | | 4 | CO4 | Understand |
| b) | Explain types of Noise Removal Approaches. | | 4 | CO4 | Understand |
| **UNIT-4** | | | | | | |
| 4 |  | Expalin the applications of Neural Networks. | | 8 | CO5 | Understand |
| **OR** | | | | | | |
| 5 |  | Explain Working Structure of Recurrent Neural Networks. | | 8 | CO5 | Understand |
| **UNIT-5** | | | | | | |
| 6 |  | Illustrate the Implementation of Smart AI Transportation and Autonomous Vehicles Using AI. | | 8 | CO6 | Apply |
| **OR** | | | | | | |
| 7 |  | Illustrate the Implementation of Smart Cities Using AI. | | 8 | CO6 | Apply |

**Prepared by**

Name of the Faculty: Dr.G.K.Venkata Narasimha Reddy, Professor , Dept Of CSE.

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