

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA INTEGRATED– SEMESTER VIII- EXAMINATION –SUMMER-2022

Subject Code: 2688602**Date:02/06/2022****Subject Name: Advance Machine Learning****Time: 10:30 AM to 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks

- Q.1** (a) List difference between machine learning and deep learning. **07**
(b) What is neural network? Explain types of neural network. **07**
- Q.2** (a) Explain Opencv library importance in Advance Machine learning. **07**
(b) Write short note on CNN. **07**
- OR**
- (b) Write short note on RNN. **07**
- Q.3** (a) Explain LSTM with proper example. **07**
(b) Explain following terms. **07**
1) Vanishing gradient problem.
2) Exploding gradient problem.
- OR**
- Q.3** (a) Write short note Deep Generative model. **07**
(b) What is reinforcement learning? **07**
- Q.4** (a) Explain Q-Learning algorithm. **07**
(b) Write application of reinforcement learning. **07**
- OR**
- Q.4** (a) What is NLP? Explain various applications of NLP. **07**
(b) What is part of speech tagging? Explain with an example. **07**
- Q.5** (a) Explain Generator and Discriminator in context of GAN. **07**
(b) Explain following terms of Reinforcement learning : **07**
1) Environment
2) State
3) Reward Policy
- OR**
- Q.5** (a) Explain sentimental analysis with an appropriate example. **07**
(b) Explain Morphology in NLP. **07**
