QP CODE: 24803031

24803031

Reg No : .....

Name : .....

INTEGRATED MSC DEGREE EXAMINATION, MAY 2024

Seventh Semester

INTEGRATED MSC COMPUTER SCIENCE-ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

CORE - ICSA7CR3 - ADVANCED PYTHON PROGRAMMING

2020 Admission Onwards

85858F06

Time: 3 Hours Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

*Weight **1** each.*

1. Name some primitive datatypes in python.
2. List the two phases of exception handling in python.
3. Give some advantages of using numpy array.
4. Describe the two data structures used in pandas.
5. What do mean by the term data handling?
6. What is a collection module in python?
7. What are tensors?
8. List the importance of tensors in tensorflow.
9. What is Python programming?
10. What is reinforcement Learning?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

*Weight **2** each.*

11. Give the differences between an iterator and a generator in python.
12. Discuss working of a client server program with methods available in python.
13. How is numpy array created?

14. What is the difference between a distplot and histogram?
15. How does tensorflow use GPU in computations?
16. Difference between machine leaning and artificial intelligence.
17. Advantages and disadvantages of unsupervised learning.
18. What are the association rule?

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. How is a lambda function different from a 'def' defined function in python. Differentiate both with the python code for getting cube of a number using 'def' and lambda.
20. Explain the phases of data processing in detail.
21. Give a summary of any two optimizers in python.
22. Explain Implementation of K-Nearest Neighbors from Scratch using Python.

(2×5=10 weightage)