

Page-4 PERIODIC TEST - 3 EXAM (2023-2024)

ARTIFICIAL INTELLIGENCE

CLASS – IX

TIME – 90 MIN.

MM – 40

Multiple Choice Questions

1 X 10 = 10 Marks

1. Green Economy is a methodology of economics that supports the interaction between _____.

- a) Human beings
- b) Nature
- c) Economic Growth
- d) All of these

2. Restaurants are the example of _____ business.

- a) Hybrid
- b) Merchandising
- c) Manufacturing
- d) Service

3. What will the output of $2^{**}3$ in Python Programming?

- a) 8
- b) 6
- c) 9
- d) None of these

4. _____ layer acquires data and feeds it to the Neural network.

- a) Input

- b) Output
- c) Hidden
- d) All of these

5. The steps to set up a business are randomly listed below. Pick the correct order of steps given below.

- i. Get Finances
- ii. Prepare a business plan
- iii. Understand the customer needs
- iv. Find the right business ideas
- v. Launch business

(a) (i) – (ii) – (iv) – (iii) – (v)

(b) (i) – (iii) – (v) – (ii) – (iv)

(c) (iv) – (ii) – (i) – (iii) – (v)

(d) (v) – (ii) – (i) – (iii) – (iv)

6. Why are fossil fuels considered non-renewable resources if they are still forming beneath the surface today ?

- (a) They are being formed as a type of methane which we can't use.
- (b) They are formed too far beneath the surface.
- (c) The fossil fuels are being broken down by a natural process.
- (d) We are depleting the fossil fuels much faster than they can form.

7. Choose the incorrect statement from the following:

- i. Deep Learning is a subset of Machine Learning
- ii. Machine Learning is a subset of Deep Learning
- iii. Artificial Intelligence is a subset of Deep Learning.
- iv. Deep Learning is the advanced form of AI and ML.

(a) Only (i) ,

(b)(ii) & (iii) •

(c) (i) & (ii)

(d) Only (iii)

(e) Only (iv)

8. Match the following

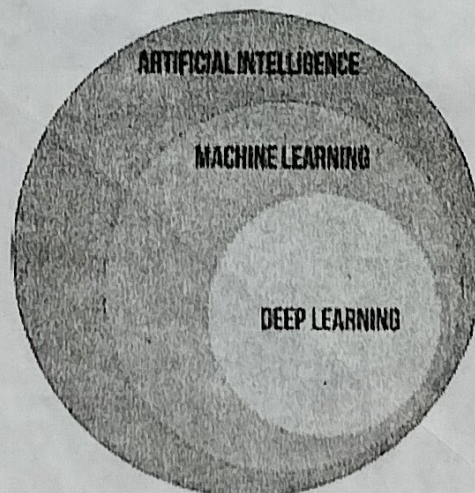
3

Column I	Column II
(i) Employees	(a) Reward of Entrepreneurship
(ii) Profit	(b) Innovators
(iii) Entrepreneur	(c) Wage Workers

Short Question

2M X 5Q = 10

- 9 - 6. What is Interactive mode in Python?
- 10 - 7. Write any three practices which can be adopted for energy conservation.
8. Write any two entrepreneurship development initiatives, which are adopted by the Government of India?
- 12 - 9. Write a Program in Python to find the sum of two given number.
- 13 - 10. Explain the diagram given below—



Long Question Answer

10. Nupur has joined an MNC bank. She has been asked to write a program for calculating simple interest for the customers. Help her in writing Python code for the same.

11. Describe the architecture of the Artificial Neural network.

12. What are Neural networks? List the areas where ANNs are used.

13. What is the difference between Product and Service based businesses?

Write P-Product S-Service and H-Hybrid for the following businesses.

a) Ice-Cream seller –

b) Restaurant/ Cafeteria owner

c) Car-driving School owner

d) toy shop

14. Construct a Decision Tree and define describe and depict the following with a suitable example in Decision Tree

a) Root Node

b) Leaf/Terminal Node

c) Branch/Sub-Tree

d) Child Node

d) Parent Node