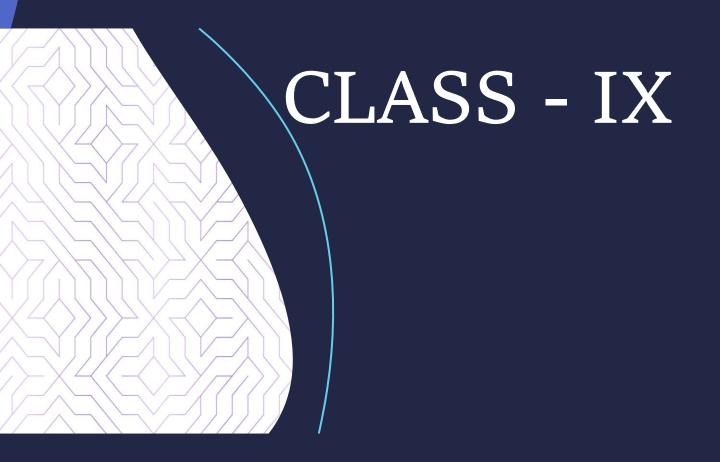
ARTIFICIAL INTELLIGENCE - 417 SAMPLE QUESTION PAPER SESSION 2023-24



Please check total printed pages before start: 8

Roll No. : 0 3

ANNUAL EXAMINATION 2023-24

SUBJECT : AI

CLASS : IX

Time: 2 hours

Marks :50

General Instructions:

- Please read the instructions carefully.
- This Question paper consists of 22 Questions in two sections: Section A & Section B.
- Section A has Objective type Questions whereas Section B contains Subjective type questions.
- All questions of a particular section must be attempted in the correct order.
- 5. SECTION A OBJECTIVE TYPE QUESTIONS (20 Marks):
 - This section has 05 questions.
 - b. Marks allotted are mentioned against each question/part.
 - There is no negative marking.
 - d. Do as per the instructions given.
- 6. SECTION B SUBJECTIVE TYPE QUESTIONS (30 Marks):
 - a. This section has 17 questions.
 - A candidate has to do12 questions.
 - c. Do as per the instructions given.
 - d. Marks allotted are mentioned against each questions /part.

SECTION A : OBJECTIVE TYPE QUESTIONS

- 1 Answer any 4 out of given 5 questions on Employability Skills
 (i x 4 = 4 marks)
 - i) Which of the following statement is False?

AA-99		
	a. The individual who has the ability to work independently need not be supervised for the task completion.	
	b. Self-direction is needed for success.	
	Goals are a not set of dreams with a deadline.	
	d. Personal hygiene create a good image of ourselves.1	
ii)	Geetanjali asked her daughter to eat slowly.	
	Here slowly is	
	Adverb b. Pronoun	
	c. Adjective d. Subject 1	
iii)	LPG stands for	
	a. Liquefied Pressure Gas b Liquefied Petroleum Gas	
	c. Liquefied Plant Gas d. Liquefied Preserve Gas1	
iv)	represents in mobile phones.	
	a. Wi-fi b. Global Positioning System	
	Cellular network connectivity d. Chargeable Battery 1	
v)	Find the correct order of steps of starting a business.	
10.00	i. Understanding customer needs	
	ii. Getting money and material	
	iii. Improving Product/Service	
	iv. Think of an Idea	
	a. iv, i, ii, iii b. i, ii, iii, iv	
	c. i, iv, ii, iii 1	
Ans	wer any 4 out of given 5 questions. (1 x 4 = 4 marks)	
iy	Which of the following is not an issue in respect of AI ethics?	
	a. Google search shows female saloon as top search	1
	whenever search for a makeover place.	
	b. User must give permission to allow access of his / he	r
	gallery, if want to use any social media app.	
	c. Candidates are using ChatGPT to build up the	9
	impressive resumes.	
*	to the second of the second in houses to	0
	repair electrical appliances would not be able to serve in	
	a smart home with the same knowledge he / she have.	ı

2

		AAA-99
	is not a part of 4 W canvas.	7177-33
	a. vvnat b. Who	
	c. Which d. Where	1
	ii) Neural Network is the technology that	
	b. represents a human brain	
	c. is an example of deep learning. d. represents all of the above	
i	Valid identifier out of following words is	1
	g. 111V=00011ma=1-	
	c. my2documents	1
V	Following are the two statement d. document_no.1	1
	Following are the two statements regarding assert	
	Assertion A: Artificial Intelligence covers a broad redomains and applications and is expected to impartield in the future.	ct every
	Reasoning R: Its core idea is building machinal algorithms which are capable of performing compassion tasks that would otherwise require human like brain for the following state.	
va.	Which of the following statement is True?	
	Both A and R are True and R is the correct explanati	ion of A.
b.	Both A and R are True and R is the not the correct ex of A.	planation
C.	A is True but R is False.	
d.		
An		1
i)	Whenever we want an Al project to be able to poutput, we need to it first using data. a. train b. purchase c. wash d. test	marks) redict ar
ii)	4. 1651	1
4/	Find out the correct order of following to complete to solve a problem.	the cycle

[P.T.O.]

- Under the sketchy graphs activity, we will visualize our collected data in a graphical format for better understanding.
- Sometimes, you use the internet and try to collect data for your project from some random websites.
- iii. To build an Al based project, we need to work around Artificially Intelligent models or algorithms.
- iv. Under the "What" block, we need to look into what we have on hand.

a. iii, i, ii, iv

b. i, ii, iii, iv

c. iv, i, ii, iii

A. iv, ii, i, iii

1

Identify AI out of the following.

- Two friends playing chess while sitting at their respective homes.
- b. In an international conference, Indian representative is addressing in HINDI and every representative from other countries are able to understand the speech in his / her language by using headphones they are provided.
- c. Creating a 3D image of a building in the laptop.
- Tagging of people in the photographs on social media platforms.

iv) >>> is a part of _____

a. Script Mode

b. Interactive Mode

c. Manual Mode

d. Graphic Mode

1

 Following are the two statements regarding assertion and reasoning.

Assertion A: Traditional machine learning algorithms stop improving after a certain saturation point.

Reasoning R: Neural network is a fast and efficient way to solve problems for which the dataset is very_large.

Which of the following statement is True?

a. Both A and R are True and R is the correct explanation of A.

5	A A A OO
Both A and R are True and R is the explanation of A	not the correct
c. A is True but R is False.	
d. A is false but R is True.	
4 Answer any 4 out of given 5 questions. (1 x	1
i) Following figure represents of SE	4 = 4 marks) DG.
a. Life below Water	
b. Life on Land	
c. Climate Action	
d. Sustainable cities and Communities	
ii) Most advanced form of Al is	1
1. Machine learning 2. Neural Network	
3. Deep Learning 4. Supervised lea	
a. 1 & 4	irning
c. 2 & 4 d. Only 2	
iii) Data transferred with in a Neural Network is three	1
c. Neurons b. Output layer	100
a. Input layer	1
iv) Which of the following statement is true in resp maps?	pect of system
a. It is used to scope the problem.	
b. In this system, every element is intercon	nected
c. Use of + signs and '-' signs is to increase	and decrease
the quantity of elements.	acorease
d. All of above are true	

Which of the following is NOT a feature of Python? V)

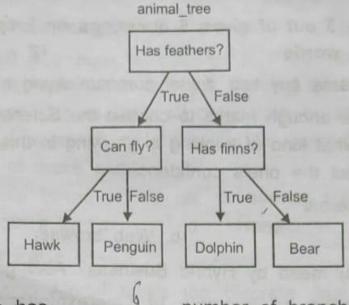
Extendable a.

Expensive

AAA-99	0
To stop a	c. Easy to maintain d. Embeddable
5 Ans	swer any 4 out of given 5 questions. (1 x 4 = 4 marks)
i)	Suppose you have a dataset of 1000 images of random plants you had taken during a tracking trip. Now you do not have any clue of their shape, colour or any other feature. approach will help you to make the patterns and cluster of these plants.
	a. Rule based b. Learning based c. Both a and b d. None 1
(نلغ	True or False
	Regression Model takes the discrete data and prepare a mapping function. Falle
iii)	Which of the following statement will store a string value in variable A.
	a. A = 6.7 b. A = True d. None of these 100
iv)	Which of the following statement will give result as 10? a. 5+5%8 ****** b. 5+8%5 01/4 c. 8+5%5 \ d. (5+5)%8 \ 7 1
v)	Following are the two statements regarding assertion and reasoning.
[B5	Assertion A: It is a big challenge for government that learning opportunities for AI be extended to all.
E 9	Reasoning R: Al can either be a boon or a bane.
100°	Which of the following statement is True? a. Both A and R are True and R is the correct explanation of A b. Both A and R are True and R is the not the correct explanation of A.
b	c. A is True but R is False.d. A is false but R is True.

SECTION B : SUBJECTIVE TYPE QUESTIONS

	THE QUESTIONS
6	Answer any 3 out of given 5 questions on Employability Skills in 20 - 30 words (2 x 3 = 6 marks)
	Draw and name any two Visual communication methods. 2
7	did not get enough marks to choose the Co.
	All of thinking is showing in this at the
	one a confidence?
8	Define the terms
	a. OS b. Web browser 2
9	What do you mean by Hybrid Business? Also give an example.2
10	Is Deforestation an example of Outside Also give an example.2
	Is Deforestation an example of Overexploitation? Justify your
	Answer any 6 out of given a
	Answer any 6 out of given 8 questions in 20 - 30 words
11	Write a statement to it.
	Write a statement to input two numbers, and display sum to two number.
12/	Match the following.
7	
	a. Story Speaker A. SDGs
	b. 17 B. Data Science
	c. This is a program that
	allows the computer to
	simulate conversation
	with a human being C. Google docs
	d. Rock, Paper and Scissors game
13	Which Al domain is used in which of following?
	Parking occupancy detection, Targeted Advertising Fmail filters
	willie Route planning
14	Write two characteristics of Divol is issued in
15	Consider the following figure
	and following figure



a. This tree has _____ number of branches.

b. _____ is the root of the tree.

2

There is usually a long waiting line for the Parking of vehicles in a MALL near to your house. People often park cars on roads rather than wait for their turn as they do not know the waiting time. Draw a 4W canvas for the said problem.

10

Define regression and classification, with diagram,

2

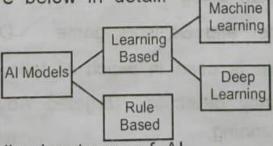
Write a program to calculate the perimeter of a circle. Enter the radius using input() and print the final value of perimeter. Take the PI value as 3.14.

Answer any 3 out of given 4 questions . $(4 \times 3 = 12 \text{ marks})$

19 What are the different stages of Al project cycle to solve any problem. Explain with taking live example of any problem. 4

20 Explain the figure below in detail.

thine rning



21 Write any four disadvantages of Al.

4

22 a) Write a program to check number is even or odd.

b) Is this statement correct or not, give reason:

Print("hello")

3+1

[P.T.O.]