



# CBSE QUESTION BANK CHAPTERWISE (SOLVED)

# ARTIFICIAL INTELLIGENCE

TERM-2 EXAMS

SESSION -2021-22



**Our Patron**  
**Sh. Tajuddin Shaikh**  
Deputy Commissioner,  
KVS RO Jabalpur

**CLASS - IX**  
**SUBJECT CODE(417)**

## PART -A

Unit 1:  
Communication  
Skills-I  
Unit 2: Self-  
Management Skills-I  
3: ICT Skills-I  
Unit 4:  
Entrepreneurial  
Skills-I  
Unit 5:  
Green Skills-I

## PART-B

Unit 1: Introduction to  
Artificial Intelligence  
(AI)  
Unit 2: AI Project  
Cycle  
  
Unit 3:  
Neural Network  
Unit 4:  
Introduction to Python



# K.V. NO. 1 REWA

**Mentor**  
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**ARTIFICIAL INTELLIGENCE (SUBJECT CODE 417)****CLASS – IX (SESSION 2021-2022)****Total Marks: 100 (Theory-50 + Practical-50)**

	<b>TERM</b>	<b>UNITS</b>	<b>NO. OF HOURS for Theory and Practical</b>	<b>MAX. MARKS for Theory and Practical</b>
<b>PART A</b>	<b>Employability Skills</b>			
	<b>TERM I</b>	Unit 1: Communication Skills-I	10	5
		Unit 2: Self-Management Skills-I	10	
		Unit 3: ICT Skills-I	10	
	<b>TERM II</b>	Unit 4: Entrepreneurial Skills-I	15	5
		Unit 5: Green Skills-I	05	
		<b>Total</b>	<b>50</b>	<b>10</b>
<b>PART B</b>	<b>Subject Specific Skills</b>			
	<b>TERM I</b>	Unit 1: Introduction to Artificial Intelligence (AI)		10
		Unit 2: AI Project Cycle		10
	<b>TERM II</b>	Unit 3: Neural Network		5
		Unit 4: Introduction to Python		15
		<b>Total</b>		<b>40</b>
<b>PART C</b>	<b>Practical Work</b>			
		• Unit 4: Introduction to Python		20
		Practical Examination		10
		Viva Voce		5
		<b>Total</b>		<b>35</b>
<b>PART D</b>	<b>Project Work / Field Visit / Practical File/ Student Portfolio</b>			10
		Viva Voce		5
		<b>Total</b>		<b>15</b>
		<b>GRAND TOTAL</b>	<b>200</b>	<b>100</b>

## **PART-A**

### **Entrepreneurial Skills-I**

Q.1-	What is entrepreneurship ?
Ans.	An <b>entrepreneur</b> is an individual who creates a new business, bearing most of the risks and enjoying most of the rewards.
Q.2-	What are the 4 Types of Entrepreneurship?
Ans.	<ol style="list-style-type: none"><li>1. Small Business Entrepreneurship-</li><li>2. Scalable Start-up Entrepreneurship-</li><li>3. Large Company Entrepreneurship-</li><li>4. Social Entrepreneurship-</li></ol>
Q.3-	What are the Characteristics of Entrepreneurship? Write any 4- 6 Characteristics .
Ans.	Characteristics of Entrepreneurship: <ol style="list-style-type: none"><li>1. Ability to take a risk..</li><li>2. Innovation.</li><li>3. Visionary and Leadership quality.</li><li>4. Open-Minded.</li><li>5. Flexible</li><li>6. Determination.</li></ol>
Q.4-	Write any four Importance of Entrepreneurship?
Ans.	Importance of Entrepreneurship: <ol style="list-style-type: none"><li>1. Creation of Employment.</li><li>2. Impact on Society and Community Development.</li><li>3. Increase Standard of Living.</li><li>4. Supports research and development.</li></ol>
Q.5-	Who is the father of entrepreneurship?
Ans.	Joseph Alois Schumpeter is regarded as the father of entrepreneurship. He introduced the concept of entrepreneurship.

Q.6-	What are the two main types of entrepreneurship?
Ans.	There are many types of entrepreneurship, two examples of such are:  1. Small business entrepreneurship  2. Large company entrepreneurship
Q.7-	What are the key concepts of entrepreneurship?
Ans.	The 4 key concepts of entrepreneurship are as follows:  1. Innovation 2. Risk taking 3. Vision 4. Organisation
Q.8 -	What are entrepreneur traits?
Ans.	Some of the most important entrepreneurial traits are:  1. Passion 2. Risk taking ability 3. Persisting nature 4. Innovative 5. Leading from the front 6. Ethical in nature
Q.9-	A shopkeeper who introduces a new idea or method in the business is called..... (Choose the correct answer) 1.) Businessman      2.) Entrepreneur
Ans.	Entrepreneur
Q.10-	The product can be seen and touched in..... (Choose the correct answer) 1.)Product Business    2.) Service Business
Ans.	Product Business.
Q.11-	Do you think entrepreneurs thrive on risk? Give your opinion.
Ans.	Yes , because they are having risk of getting loss or profit.

Q.12-	What is the aim of entrepreneurship ? (a) Earn a Profit            (b) Solve customers' need innovatively (c) Both of the above    (d) None of the above
Ans.	(c) Both of the above
Q.13-	Who is entrepreneur? Give few important skills to become a successful entrepreneur.
Ans.	An Entrepreneur is a designer or a creator who designs new businesses and ideas according to its own passion but according to the requirements of market. To become a successful entrepreneur following skills are required 1. An ambition 2. Willingness to learn 3. Creativity 4. Courage 5. Take risk
Q.14-	What do you mean by 'Whole sale price' and 'Retail Price'?
Ans.	<b>Whole sale price</b> - Wholesale price is the price charged for goods that are sold in bulk or large quantities to a businessman or a trader. <b>Retail price</b> - Retail price is the price of goods or products when they are sold to customers for consumption, and not for sale.
Q.15-	Which of the following skills are required to be a successful entrepreneur? i. Ambition ii. Creativity iii. Team management iv. All of these
Ans.	iv. All of these
Q.16-	Give any two examples of manufacturing business activity.
Ans.	automotive companies, bakeries, shoemakers, tailors etc...
Q.17-	Write any four characteristics of entrepreneurship ?
Ans.	1. Innovation 2. growth 3. Confidence 4. Passion
Q.18-	What is the difference between a start-up and a small business?
Ans.	Startups want to grow with the goal of disrupting the market. on the other hand, Small businesses, are created for the purpose of entrepreneurship and serving a local market.

Q.19-	Business is a (an), activity . 1. Socio-economic 2. Charitable 3. Hazardous 4. Selling
Ans.	Socio-economic
Q.20-	What are the 3 types of business activities ?
Ans.	There are three main types of business activities: 1. product Business 2. Service Business 3. Hybrid Business.
Q.21 -	What is the meaning of manufacturing and trading based business.
Ans.	Explanation: In manufacturing business you have to manufactured products for your client and in trading business you need to purchase manufactured product from manufacturing company and sell it to customer directly.
Q.22-	How is entrepreneurship different from business?
Ans.	Businessmen invest energy, resources and time to run the business based on an already existing model. On the other hand, an entrepreneur is someone who invests energy, resources and time to build a model that is original and has been evolved from scratch.
Q.23-	How entrepreneurs positively contribute to society?
Ans.	New and improved products, services or technology from entrepreneurs enable new markets to be developed and new wealth to be created. Additionally, increased employment and higher earnings contribute to better national income in the form of higher tax revenue and higher government spending.
Q.24-	What is difference between cooperative and corporation
Ans.	A cooperative is a group of people who come together and voluntarily cooperate for their mutual, social, economic, and cultural benefit. A corporation is a separate legal entity, which is owned by shareholders.
Q.25	List any 4 essential business activities
Ans.	marketing. finance. customer services .human resources. accounting.

# **PART-A**

## **Green Skills-I**

Q.26.	What are green skills?
Ans.	Green skills are those skills needed to adapt processes, services and products to climate change and the environmental regulations and requirements related to it.
Q.27-	Give two examples of green skills that you can start learning from now.
Ans.	1)Use of solar energy 2)Use of hydro electricity
Q.28-	Who launched Green Skill Development Program (GSDP)?
Ans.	It is an initiative of the Ministry of Environment, Forest and Climate Change (MoEF&CC).
Q.29-	What is sustainable development?
Ans.	Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.
Q.30-	What is goal and principles of green economy?
Ans.	Well-being: Justice Planetary boundaries Efficiency & sufficiency Good governance
Q.31-	Which of the following options do not conserve our health and environment? (a) Grow organic crops                      (b) Use natural fertilizers (c) Manage waste water                      (d) Use more air conditioning
Ans.	( d) Use more air conditioning
Q.32-	Match the Column 'A' with Column "B" Column A    Column B (i) Biomass energy                                      Non- renewable energy (ii) Fossil fuel oil                                      Renewable energy (iii) Trees    Reuse (iv) 3'Rs    Natural Resources

Ans.	<b>Column A</b> (i) Biomass energy (ii) Fossil fuel oil (iii) Trees (iv) 3'Rs	<b>Column B</b> Renewable energy Non- Renewable energy Natural Resources Reuse
Q.33-	What should we do to save the environment ? Write any four step.	
Ans.	Reduce, reuse, and recycle. Cut down on what you throw away. ... Volunteer. Volunteer for cleanups in your community. ... Conserve water. ... Choose sustainable. ... Shop wisely. ... Use long-lasting light bulbs. ... Plant a tree.	
Q.34-	Why conservation of environment is important?	
Ans.	Ans: To reduce air, water and land pollution To facilitate the conservation of natural resources for our future generations To ensure the protection of biodiversity To implement sustainable development To restore the ecological balance To save our planet from harmful repercussions of global warming	
Q.35-	List any three human activities that affect the environment.	
Ans.	Ans : 1. Overuse Of Harmful Pesticides And Fertilizers 2. Deforestation, Air Pollution, Water pollution 3. Over population 4. Use of plastics 5. Destruction of fresh water	
Q.36-	Match the entries of column 'A' with column 'B'	
	<b>Column A</b> Environment Natural Environment Paper Bag 3 'R's	<b>Column B</b> Sun Recycle, Reuse, Reduce Surrounding Recycle
Ans.	<b>Column A</b> Environment Natural Environment Paper Bag 3 'R's	<b>Column B</b> Surrounding Sun Recycle Recycle, Reuse, Reduce
Q.37-	What do you understand by overexploitation of Natural Resources?	
Ans.	Ans : Over Consumption and wastage- it means there is an excessive and unnecessary use of resources. - Deforestation, and the destruction of the ecosystem leading to a loss of biodiversity. - Excessive mining for minerals and oil. - Technological and industrial development. - Widespread erosion.	

Q.38-	What are the man made disruption that causes ecological imbalance?
Ans.	The human-induced disturbances such as Deforestation, Degradation of Land and Soil Erosion, Overexploitation of Resources, Industrial and Atmospheric Pollution, Faulty Mining Practices
Q.39-	Explain the importance of “Swachh Bharat Abhiyan”.
Ans.	Swachh Bharat Abhiyan was launched by the Government of India to solve the problems of sanitation and waste management in India by ensuring hygiene across the country. The main aim of the project is to create sanitation facilities for all and provide every rural family with a toilet by 2019.
Q.40-	Explain what you can do to help a Green Economy.
Ans.	In a green economy, growth in employment and income are driven by public and private investment into such economic activities, infrastructure and assets that allow reduced carbon emissions and pollution, enhanced energy and resource efficiency, and prevention of the loss of biodiversity and ecosystem services.

## PART-B

### 3. Neural Network

Q.1-	What do you understand by Artificial Neural Networks(ANNs)?
Ans.	An ANN is a computational network based on biological neural networks that construct the structure of human brain.
Q.2-	Define (i) Deep Learning (ii) Machine Learning.
Ans.	(i) In Deep learning the machine is trained with huge amount of data which helps it to train itself around the data. (ii) Machine learning enables machines to improve at tasks with experience
Q.3-	What is the key advantage of neural network?
Ans.	<b>Neural Network-</b> able to extract data features automatically without needing the input of the programmer.
Q.4-	A neural network is a machine learning algorithm based on the model of a human neuron. (i) True (ii) False
Ans.	(i) True
Q.5-	Define any Two (i) Input Layer (ii) Hidden Layer (iii) Output Layer
Ans.	<b>Role of Input Layer-</b> acquire data and feed it to neural network <b>Role of Hidden Layers-</b> Whole processing occurs in hidden layers <b>Role of Output Layer</b> – Accepts final processed data from hidden layer.
Q.6-	Which approach is commonly used when we have a known dataset or labeled dataset? a) Supervised b) unsupervised c) Rule based d) Learning based
Ans.	c) Rule based
Q.7-	Which approach is commonly used when the data is unknown/random or unlabeled? a) Supervised b) unsupervised c) Rule based d) Learning based
Ans.	d) Learning based

Q.8-	Which learning involves training the machine using data? a) Supervised b) unsupervised c) Rule based d) Learning based
Ans.	a) Supervised
Q.9-	in which learning machine is restricted to find the hidden structure in unlabeled data by itself a) Supervised b) unsupervised c) Rule based d) Learning based
Ans.	b) unsupervised
Q.10-	which learning is also known as machine learning method
Ans.	a) Supervised b) unsupervised c) Reinforcement d) Classification
Q.11-	Write the full form of the following organizations. i. ANN ii. BNN
Ans.	Ans : 1. ANN Artificial Neural Network 2. BNN Biological Neural Network
Q.12-	Define the following terms i. Deep Learning ii. Neural Network
Ans.	<b>i) Deep Learning :</b> It is an Artificial Intelligence function that imitates the workings of the human brain in processing data and creating patterns for use in decision making. It is a subset of machine learning which helps the machine to take decisions and learn from large datasets <b>ii) Neural Network :</b> A neural network is defined as a combination of algorithms to understand the relationship between various sets of data to process and then takes out some meaningful information from it.
Q.13-	What is the need of neural networks in Artificial Intelligence?
Ans.	They are used to solve real-life complex problems. These networks can learn and create the relationships between all the inputs and gives the result. They can handle non linear and complex problems very effectively. The main advantage of neural networks is that they are able to extract data features automatically without needing any input from the programmer.
Q.14-	Sketch2Code is a Microsoft web-based solution to transform any handmade designs into HTML code using Artificial Intelligence. 1 i. True ii. False

Ans.	Ans : True
Q.15-	What are the three methods or techniques used for identifying, processing and classifying data in deep learning systems?
Ans.	Multi-Layer Perceptrons (MLP) Convolutional Neural Networks (CNN) Recurrent Neural Networks (RNN)
Q.16-	What is Artificial Neural Network?
Ans.	The term "Artificial Neural Network" is derived from Biological neural networks that develop the structure of a human brain. Similar to the human brain that has neurons interconnected to one another, artificial neural networks also have neurons that are interconnected to one another in various layers of the networks.
Q.17-	ANNs are made up of ..... nodes which imitate biological neurons of the human brain.
Ans.	Input Nodes.
Q.18-	In general, a neural network consists of an input and output layer with one or multiple _____ layers within..
Ans.	Hidden Layer.
Q.19-	Write any two similarities between Biological Neural Networks and Artificial Neural Networks.
Ans.	1. The presence of neurons as the most basic unit of the nervous system. 2. The input is directly passed to a neuron and output is also directly taken from the neuron,
Q.20-	Write any two advantages of Artificial Neural Network?
Ans.	1. A neural network can implement tasks that a linear program cannot. 2. A neural network determines and does not require to be reprogrammed.
Q.21-	Write any 3 Attributes of Artificial Neural Networks.
Ans.	1. Faster in processing information. Response time is in nanoseconds. 2. Serial processing. 3. Less size & complexity. It does not perform complex pattern recognition tasks.

Q.22-	Write any 3 Applications of Artificial Neural Networks.
Ans.	1. Facial Recognition. 2. Stock Market Prediction. 3. Social Media. 4. Aerospace. 5. Defence.
Q.23-	Neural Network is an instance of deep learning technology. True/False
Ans.	True
Q.24-	Explain the difference between Neural networks and Conventional computing.
Ans.	<b>Neural Network</b> -More Probabilistic, No Central Processor, Respond in parallel <b>Conventional Computing</b> - works on serial processing logic, Computational steps are deterministic, sequential and logical, Uses Central Processor. Or Conventional computers have to learn by rules, while artificial neural networks learn by example, by doing something and then learning from it.
Q.25-	What is need of neural network in artificial intelligence ?
Ans.	They are used to solve real-life complex problems. These networks can learn and create the relationships between all the inputs and gives the result. They can handle non linear and complex problems very effectively. The main advantage of neural networks is that they are able to extract data features automatically without needing any input from the programmer.

## PART-B

### 4. Introduction to Python

Q.26-	What is the role of Python Interpreter ?
Ans.	Python Interpreter- It is a computer program that executes code written in python. Python interpreter takes an interactive command and executes it.
Q.27-	Why we use python in AI ?
Ans.	Python has rich library, it is also object oriented, easy to program. It can be also used as frontend language. That's why it is used in artificial intelligence.
Q.28-	Write any 4 features of Python.
Ans.	Features- 1)No Declaration required (2) Inbuilt OOP support/Library (3)Less Code (4)Ease of learning (5)Platform independent (6) Non restrictive syntax.
Q.29-	What is Python and its applications?
Ans.	Python is a widely-used, interpreted, object-oriented, and high-level programming language with dynamic semantics, used for general-purpose programming. <b><u>Applications for Python</u></b> Web Development. Game Development. Machine Learning and Artificial Intelligence. Data Science and Data Visualization. Desktop GUI. Web Scraping Applications.
Q.30-	What do you understand by data types? Explain numeric data types in brief.
Ans.	<b>Data type- Data type</b> is an attribute associated with a piece of data that tells a computer system how to interpret its value. <b>Numeric data types</b> are numbers stored in database columns. These data types are typically grouped by: Exact numeric types, values where the precision and scale need to be preserved. The exact numeric types are INTEGER , BIGINT , DECIMAL , NUMERIC , NUMBER , and MONEY .
Q.31-	Who was created Python programme?
Ans.	Guido van Rossum.

Q.32-	What is Variable in Python? Give example.
Ans.	A Python variable is a reserved memory location to store values. In other words, a variable in a python program gives data to the computer for processing. Examples:- Numbers, List, Tuple, Strings, Dictionary, etc.
Q.33-	How to run Python Shell?
Ans.	To run a python shell, follow the given steps below. 1. Open the power shell or command prompt on windows, and terminal window on Mac. 2. Write python there and then press enter. 3. A python prompt consisting of three greater than symbols i.e., “>>>” appears. Now, just enter the single statement and see the results accordingly.
Q.34-	Explain String in Python with the help of example.
Ans.	A string is a series of characters. In Python, anything inside quotes is a string. And you can use either single quotes or double quotes. For example: message = 'This is a string in Python' message = "This is also a string"
Q.35-	Write any four standard data types of python .
Ans.	1. Numeric 2. String. 3. List. 4.Tuple 5. Set.6. Dictionary.
Q.36-	What are comments in python ? List down the various types of comments.
Ans.	Comments in Python are the lines in the code that are ignored by the compiler during the execution of the program. Comments are non-executable statements in Python. It means neither the python compiler nor the PVM will execute them. There are three types of comments in Python – 1. Single line Comments 2.Multiline Comments 3. Docstring Comments
Q.37-	What are the different modes for coding in python?
Ans.	In the Python programming language, there are two ways in which we can run our code: 1. Interactive mode 2. Script mode
Q.38-	What is the use of Arithmetic Operators in Python? Write any four arithmetic operators.
Ans.	Arithmetic operators are used to perform mathematical operations like addition, subtraction, multiplication and division.

Q.39-	Why is python the preferred programming language for AI?
Ans.	Because of its features like: 1. Standard built in Library, Less Code, 2. Ease of learning, 3. Platform independent, 4. Massive Community Support, 5. Data Generation, 6. More effective algorithm, 7. Interpretive run time support
Q.40-	What are data types in python. Give some example of data types.
Ans.	Data types are the classification or categorization of data items. It represents the kind of value that tells what operations can be performed on a particular data. 1. Example of data types 2. Numeric 3. Sequence Type 4. Boolean 5. Set 6. Dictionary
Q.41-	Write a Python Code to find multiplication of two numbers. Display the result.
Ans.	a=4 b=2 multi=a*b print(multi)                      Result - 8
Q.42-	Sh. Suresh has written following python code. This code is showing error,help Sh. Suresh to rectify the error. Underline the error and rewrite the code. a=10 20=b a+b=sum show (sum)
Ans.	Correct Code- a=10 b=20 sum=a+b print(sum)
Q.43-	Write the output of the following python statements. (i) print('Good Morning, India') (ii) print(0.25*0.5*2.5) (iii) print (250+350*2//5)
Ans.	(i) Good Morning, India (ii) 0.3125 (iii) 390

Q.44-	Identify the data type. (i) dob = [19,"January",1990] (ii) t = (5,'program',2.5) (iii) a = {1,2,2,3,3,3}										
Ans.	(i) Lists (ii) Tuple (iii) Sets										
Q.45-	Write a python program to print weather the given number is prime or not (With output)										
Ans.	<pre> number = int(input("Enter any number: ")) # prime number is always greater than 1 if number &gt; 1:     for i in range(2, number):         if (number % i) == 0:             print(number, "is not a prime number")             break     else:         print(number, "is a prime number") # if the entered number is less than or equal to 1 # then it is not prime number else:     print(number, "is not a prime number")  Output - Enter any number : 13 13 is a prime number </pre>										
Q.46-	Match the Column 'A' with Column 'B'										
	<table style="width: 100%; border: none;"> <thead> <tr> <th style="text-align: left;">Column A</th> <th style="text-align: left;">Column B</th> </tr> </thead> <tbody> <tr> <td>(i) + (Addition )</td> <td>(i) Comparison operators</td> </tr> <tr> <td>(ii) ==</td> <td>(ii) Logical operators</td> </tr> <tr> <td>(iii) NOT</td> <td>(iii) Arithmetic operators</td> </tr> <tr> <td>(iv) + = (Add AND)</td> <td>(iv) Assignments Operators</td> </tr> </tbody> </table>	Column A	Column B	(i) + (Addition )	(i) Comparison operators	(ii) ==	(ii) Logical operators	(iii) NOT	(iii) Arithmetic operators	(iv) + = (Add AND)	(iv) Assignments Operators
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Q.47-	Write the Boolean value ( True or False) by the following relational expression in python										
	<table style="width: 100%; border: none;"> <tbody> <tr> <td>(i) print(10!=23)</td> <td>(ii) print ( 10 == 23)</td> </tr> <tr> <td>(iii) print ( 10 &gt;= 23)</td> <td>(iv) print ( 10 &gt;23)</td> </tr> </tbody> </table>	(i) print(10!=23)	(ii) print ( 10 == 23)	(iii) print ( 10 >= 23)	(iv) print ( 10 >23)						
(i) print(10!=23)	(ii) print ( 10 == 23)										
(iii) print ( 10 >= 23)	(iv) print ( 10 >23)										

Ans.	(i) True          (ii) False          (iii) False          (iv) False
Q.48-	<p>What output given by the following python code?</p> <p>(i) <code>var = "India"</code>  <code>print(len(var))</code></p> <p>(ii) <code>list1 = ("Hindi", "Maths" , " Science")</code>  <code>print(list1);</code></p> <p>(iii) <code>print("Good"</code>  <code>"Moring"</code>  <code>"India")</code></p>
Ans.	<p>(i) 5</p> <p>(ii) ('Hindi', 'Maths', ' Science')</p> <p>(iii) Good Moring India</p>
Q.49-	Write a program in Python to find the largest of two numbers.
Ans.	<pre>number1 = int(input('Enter any number ')) number2 = int(input('Enter second number ')) if number1&gt;number2: print(number1,' is largest') else: print(number2,' is largest ')</pre>
Q.50-	<p>Write the output of the following python statements 5</p> <p>i) <code>print('Sunday' + 'Monday' + 'Holiday')</code></p> <p>ii) <code>print(16 * 4)</code></p> <p>iii) <code>print(1998 - 1964)</code></p> <p>iv) <code>print(100 // 25)</code></p> <p>v) <code>print(390 + 27 + 63 + 71)</code></p>
Ans.	<p>i. SundayMondayHoliday</p> <p>ii. 64</p> <p>iii. 34</p> <p>iv. 4</p> <p>v. 551</p>
Q.51-	<p>Write the Boolean value ('True' or 'False') returned by the following relational expression in Python 3</p> <p>a. <code>10140 &gt; 10104</code></p> <p>b. <code>356 &lt; 78</code></p> <p>c. <code>'Lion'=='Leon'</code></p>
Ans.	<p>a) True</p> <p>b) False</p> <p>c) False</p>

Q.52-	Match the entries of Column 'A' with Column 'B' <b>Column A</b> len() append() sort() count()	<b>Column B</b> mylist.append(245) to return no of times an element found in list to calculate the number of elements in a list arrange the items in the ascending order in list
Ans.	<b>Column A</b> len( ) append( ) sort count( )	<b>Column B</b> to calculate the number of elements in a list mylist.append (245) arrange the items in the ascending order in list to return no of times an element found in list
Q.53-	What output given by the following Python code? SP = 3126 CP = 2500 x = SP - CP if x > 0: print('Profit gain') else: print('Loss suffer')	
Ans.	Ans : Profit gain	
Q.54-	Identify and write the name of variables used in the following python program . player_name = 'Sachin' century = 51 runs = 15000 print('Players name is ', player_name) print('He made',century,'centuries') print(runs,' Runs is the world record') book = 'Autobiography' price = 450 print('lets purchase the book', book) print('Its cost only ', price,' Rs')	
Ans.	player_name, century, runs, book, price	
Q.55-	Python Program to Check if a Number is Odd or Even.	
Ans.	num = int(input("Enter a number: ")) if (num % 2) == 0: print("{0} is Even number".format(num)) else: print("{0} is Odd number".format(num))	

Q.56-	Python Program to check if a Number is Positive, Negative or Zero
Ans.	<pre>def NumberCheck(a):     if a &gt; 0:         print("Number given by you is Positive")      elif a &lt; 0:         print("Number given by you is Negative")      else:         print("Number given by you is zero")  a = float(input("Enter a number as input value: ")) NumberCheck(a)</pre>
Q.57-	Write a program to add two number in python.
Ans.	<pre>num1 = input('Enter first number: ') num2 = input('Enter second number: ') sum = (num1) + (num2) print(sum)</pre>
Q.58-	Write a Python program to display calendar.
Ans.	<pre>import calendar # Enter the month and year yy = int(input("Enter year: ")) mm = int(input("Enter month: "))  # display the calendar print(calendar.month(yy,mm))</pre>
Q.59-	What is python IDEs. Write some Python IDEs.
Ans.	<p>It is specially designed for software development that consists of several tools which is used for developing and testing the software.</p> <p>There are some Python IDEs</p> <ul style="list-style-type: none"> <li>PyCharm</li> <li>Spyder</li> <li>PyDev</li> <li>Atom</li> <li>Microsoft Visual Studio</li> <li>Jupyter Notebook</li> </ul>
Q.60-	Find the output of given program.
	<pre>(1) L1 = ["John", 102, "USA"] (2) T2 = ("Apple", "Banana", "Orange") print(type(L1)) print(type(T2))</pre>
Ans.	<class 'list'>, <class 'Tuple'>



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