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Chapter-1

CLASS 8

GOOGLE APPS

A. Write the names of any four Google apps.

1.
2.
3.
4.

B. Fill in the blanks using the hints given below.

Hints: saved, Google Maps, Alphabet incorporation, encoding , Share

1. In December 2019, Sundar Pichai became the CEO of
2. Encryption is the process of a message or file so that it can only be accessed by authorized people.
3. The icon generate a link of your document for sharing and giving access.
4. The three kinds of views are satellite, terrain and map.
5. Changes made to the Google Docs are automatically when working online.

C. Guess who am I?

1. I am an online version of Microsoft PowerPoint developed by Google in 2006.
2. I am a video sharing application where users can upload their videos, share, comment, watch and like other videos.
3. I am a spreadsheet application introduced by Google on March 9, 2006.
4. I am the tag line of YouTube.
5. I am a cloud-based storage service that can store all types of files such as photos, videos, PDFs, Microsoft Office files and many more.

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Chapter-1

CLASS 8

GOOGLE APPS

A. Tick (✓) the correct option.

1. Which of the following apps is used to make presentation?

a. Gmail

☐

b. YouTube

☐

c. Slides

☐

d. Sheets

☐

2. Which of the following is a type of social media application?

a. Facebook

☐

b. YouTube

☐

c. Slides

☐

d. Sheets

☐

3. Which of the following is not a Google app?

a. Slides

☐

b. Facebook

☐

c. YouTube

☐

d. None of these

☐

4. We use Set Permissions option in Google Sheets to

a. Protect Sheets

☐

b. Delete Sheets

☐

c. Withdraw Protection

☐

d. All of these

☐

5. Which of the following actions cannot be performed on YouTube?

a. Video uploading

☐

b. Watching video

☐

c. Sending an email

☐

d. Saving a video

☐

B. Answer the following questions:

1. State two uses of Google maps.

.....

2. What is Gmail?

.....

3. State any two benefits of Google Docs.

.....

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Chapter-2

CLASS 8

TRENDING TECHNOLOGIES

A. Tick (✓) the correct option.

- Which of the following technology that creates a complete virtual world that users can interact with?

a. Augmented Reality	<input type="checkbox"/>	b. Virtual Reality	<input type="checkbox"/>
c. 3D Printing	<input type="checkbox"/>	d. Robotics	<input type="checkbox"/>
- Which of the following robot provides emergency services in rescue operations?





a. Aibo	<input type="checkbox"/>	b. ASIMO	<input type="checkbox"/>
c. Ameca	<input type="checkbox"/>	d. Atlas	<input type="checkbox"/>
- Which of the following uses techniques such as machine learning and artificial intelligence to extract meaningful information?

a. Data Science	<input type="checkbox"/>	b. Augmented Reality	<input type="checkbox"/>
c. Internet of Things	<input type="checkbox"/>	d. Robotics	<input type="checkbox"/>

B. Write 'T' for true and 'F' for false.

- AI is used as image recognition for face unlock in smartphones.
- Pepper is a robotic dog.
- Nao is a small humanoid robot, packed with sensors.
- Edge computing keeps computer data close to the user.

C. Match the following:

- | | |
|--|--------------------|
| 1.  | a. Google Maps |
| 2.  | b. Snapchat |
| 3.  | c. Google Earth VR |
| 4.  | d. Matterport |

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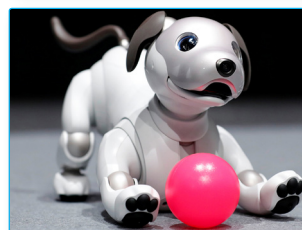
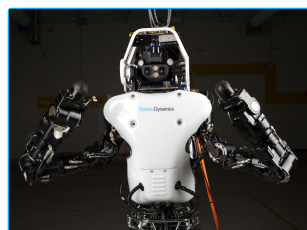
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Chapter-2

CLASS 8

TRENDING TECHNOLOGIES

A. Write the features of the following popular Robots:



B. Answer the following questions:

1. What is Machine learning?

.....

.....

2. Explain Edge computing.

.....

.....

3. Write the examples of AR & VR applications.

.....

.....

C. Competency-based/Application-based question:

Samar's friend was watching a 3D movie, a technology creating an imaginary world for the purpose of entertainment. Samar doesn't know that which technology is this. Tell him the name of the technology.

.....

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AI IN REAL WORLD

A. Tick (✓) the correct option.

1. What is the primary function of smile detection technology, as described in the passage?
 - a. To identify individuals in a crowd ☐
 - b. To analyze facial expressions for emotions ☐
 - c. To track eye movement on a screen ☐
 - d. To recognize voices in a recording ☐
2. Smile detection technology relies on which two key techniques?
 - a. Natural Language Processing and Robotics ☐
 - b. Speech Recognition and Sentiment Analysis ☐
 - c. Deep Learning and Computer Vision ☐
 - d. Biometrics and Machine Learning ☐
3. According to the passage, in which industry is smile detection technology used to gauge public reaction?

a. Healthcare <input type="checkbox"/>	b. Education <input type="checkbox"/>
c. Media <input type="checkbox"/>	d. Manufacturing <input type="checkbox"/>

B. Complete the following instructions of upload the image:

1. Click on the block.
2. Click on the button to select the image from the system and click on button.
3. After that click on the button and check the result.

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AI IN REAL WORLD

A. Write T for true and F for false.

1. Get smile count block is used to detect whether a person is smiling or not.
2. Get smile count == 0, means the person is smiling in the image.
3. Smile detection technology cannot understand the specific emotions behind a smile.
4. Artificial Intelligence (AI) is use to detect whether a person is smiling or not.

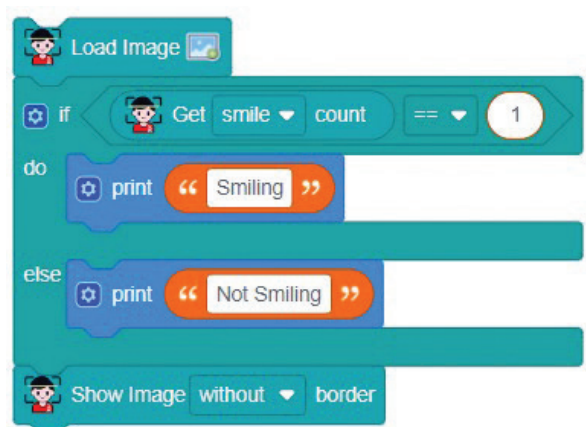
B. Write the short note on the Smile Detection in AI Connect:

.....

.....

.....

C. Write the Textual code for the following Block code:



.....

.....

.....

.....

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Chapter-4

CLASS 8

MACHINE LEARNING

A. Tick (✓) the correct option.

1. Which of the following are not the applications of machine learning?

- | | | | |
|--------------------------|--------------------------|----------------------|--------------------------|
| a. Social Media Features | <input type="checkbox"/> | b. Voice Recognition | <input type="checkbox"/> |
| c. Image Recognition | <input type="checkbox"/> | d. None of these | <input type="checkbox"/> |

2. What is the primary focus of machine learning?

- | | |
|---|--------------------------|
| a. Providing explicit programming instructions | <input type="checkbox"/> |
| b. Automatically learning from data and improving over time | <input type="checkbox"/> |
| c. Human intervention and assistance | <input type="checkbox"/> |
| d. Developing computer hardware | <input type="checkbox"/> |

3. Which of the following is the disadvantage of the machine learning?

- | | | | |
|------------------------------|--------------------------|-------------------------------|--------------------------|
| a. Data Acquisition | <input type="checkbox"/> | b. Continuous Improvement | <input type="checkbox"/> |
| c. Automation for Everything | <input type="checkbox"/> | d. Wide Range of Applications | <input type="checkbox"/> |

4. Who is considered the "father of machine learning"?

- | | | | |
|---------------------|--------------------------|------------------|--------------------------|
| a. Geoffrey Everest | <input type="checkbox"/> | b. Alan Turing | <input type="checkbox"/> |
| c. Andrew Ng | <input type="checkbox"/> | d. John McCarthy | <input type="checkbox"/> |

B. Write T for True and F for false.

- Machine learning systems can automatically learn and improve from experience without any explicit programming.
- The primary focus of machine learning is to replace human decision-making entirely.
- The learning process in machine learning starts with observations or data examples and aims to identify patterns for better decision-making in the future.
- The ultimate goal of machine learning is to eliminate the need for human intervention or assistance in the learning process.

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Chapter-5

CLASS 8

AI DOMAINS

A. Tick (✓) the correct option.

1. Which of the following is a domain of AI?

a. Big data

☐

b. NLP

☐

c. Computer Vision

☐

d. All of these

☐

2. Which of the following is a subfield of AI which helps in communication between human and computer in natural language?

a. Big data

☐

b. NLP

☐

c. Computer vision

☐

d. None of these

☐

3. Which of the following fields use computer vision?

a. Self-driving cars

☐

b. Drones

☐

c. Healthcare industry

☐

d. All of these

☐

4. Which domain of AI is used to identify spam or junk mails?

a. Big data

☐

b. NLP

☐

c. Computer vision

☐

d. None of these

☐

B. Define the following:

1. Natural Language Processing

2. Data

3. Computer vision

C. Short answer type questions.

1. What are the three domains of AI?

.....

2. Write down any applications of computer vision.

.....

3. What proves to be quite useful in voice text messaging and virtual assistants?

.....

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AI DOMAINS

A. Fill in the blanks.

- enables a computer to read and understand data by mimicking human natural language.
- is a very popular field of AI that trains a computer to understand and interpret the visual world.
- cars use computer vision to examine their surroundings and plan its path.
- In healthcare industry, can be used to check the patient's image and determine the ailment.

B. State whether these statements are true or false.

- Big data subfield of AI is used for a variety of tasks such as email filters.
- There are different approaches or domains to achieve Artificial Intelligence.
- NLP also finds its use in the auto complete and spell check feature of word processors.
- Big data has become a valuable commodity.

C. Assertion and reasoning based question.

Assertion (A): AI's ability to work so well with data analytics is because of its use of big data.

Reason(R): Using data from many sources, AI can build a store house of knowledge that ultimately leads to accurate predictions about a consumer.

- Both A and R are correct and R is the correct explanation of A.
- Both A and R are correct but R is NOT the correct explanation of A.
- A is correct but R is not correct.
- A is not correct but R is correct.

Select the correct answer from above options.

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Chapter-6

CLASS 8

FUTURE OF ARTIFICIAL INTELLIGENCE

A. Tick (✓) the correct option.

1. What technologies can be utilized to implement smart traffic solutions in a city?
 - a. AI and IoT ☐
 - b. Blockchain and Virtual Reality ☐
 - c. Robotics and Nanotechnology ☐
 - d. Biotechnology and Quantum Computing ☐
2. What is one of the benefits of implementing smart parking solutions in a city?
 - a. Increasing traffic congestion ☐
 - b. Reducing waiting time to find parking spots ☐
 - c. Adding to pollution levels ☐
 - d. Decreasing the efficiency of transportation ☐
3. Which of the following implies the use of ICT intelligently in order to improve decision and compliance towards the needs of the citizens?

a. Smart governance <input type="checkbox"/>	b. Smart Lighting <input type="checkbox"/>
c. Smart Waste Management <input type="checkbox"/>	d. Smart Parking <input type="checkbox"/>
4. Which of the following technology also referred as home automation or 'Domotics'?

a. Smart governance <input type="checkbox"/>	b. Smart Lighting <input type="checkbox"/>
c. Smart Home <input type="checkbox"/>	d. Smart Parking <input type="checkbox"/>

B. Write 'T' for true and 'F' for false.

1. Smart governance implies the use of ICT intelligently in order to improve decision and compliance towards the needs of the citizens.
2. Smart City is not a designation given to a city that incorporates information and communication technologies.
3. Smart Parking solutions can determine whether the parking spots are free or occupied.

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Chapter-6

CLASS 8

FUTURE OF ARTIFICIAL INTELLIGENCE

A. Identify the pictures and Write their uses.

1.



.....

2.



.....

3.



.....

4.



.....

B. Define the followings:

1. Chats:

.....

2. Photos:

.....

3. Contact Lists:

.....

4. Location:

.....

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Chapter-7

CLASS 8

SUSTAINABLE DEVELOPMENT GOALS

A. Tick (✓) the correct option.

1. In which year were the SDGs adopted?

a. 2020

☐

b. 2025

☐

c. 2015

☐

d. 2010

☐

2. How many SDGs are there in total?

a. 15

☐

b. 17

☐

c. 20

☐

d. 25

☐

3. Which SDG aims to reduce inequality?

a. Goal 1

☐

b. Goal 5

☐

c. Goal 10

☐

d. Goal 16

☐

B. Fill in the blanks.

1. The SDGs aim to achieve progress by

2. Goal 10 reduces within and between countries.

3. Goal 6 focuses on clean and sanitation.

4. Goal 4 aims to ensure education for all.

5. Goal 13 deals with combating change.

C. Write 'T' for true and 'F' for false.

1. There are 15 SDGs adopted by the UN.

.....

2. Poverty eradication is addressed in Goal 1.

.....

3. Promoting renewable energy is part of Goal 5.

.....

4. Quality education for all is ensured through Goal 3.

.....



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Chapter-7

CLASS 8

SUSTAINABLE DEVELOPMENT GOALS

A. Write 'T' for true and 'F' for false.

1. These days we have machines that can think and give responses close to a human being.
2. Goal 2 aims to seek sustainable solutions to end hunger by 2030.
3. Goal 14 aims to protect and restore ecosystems.
4. Goal 7 aims to grant women and girls with equal rights.
5. Goal 17 aims to protect biodiversity.

B. Identify the pictures and Write their uses.



.....



.....



.....



.....

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Chapter-8

CLASS 8

CAREERS IN AI

A. Tick (✓) the correct option.

1. Which of the following is not related to Computer Vision?

a. Face recognition

☐

b. Optical character recognition

☐

c. Both a. and b.

☐

d. None of these

☐

2. Which type of engineers are working in the following image:



a. Computer Vision Engineer

☐

b. Data Scientist

☐

c. Aerospace Engineer

☐

d. Civil Engineer

☐

B. State whether the following statements are True or False.

1. Niramai Health Analytix is working on an innovative AI based method of detecting breast cancer in its early stage.

2. Kuki is a chatbot product which works as an AI personal assistant.

C. Write any two skills for each of the following engineers:

1. Robotics Engineer

.....

.....

2. Aerospace Engineer

.....

.....

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Chapter-9

CLASS 8

ACCESS TO AI AND ETHICAL ISSUES

A. Tick (✓) the correct option.

- What is the biggest challenge to the wider adoption of AI, according to the passage?
 - Lack of creativity in AI systems ☐
 - Unclear regulations around ethical misuse of AI ☐
 - Difficulty in managing the massive datasets used by AI ☐
 - Absence of user-friendly interfaces for AI ☐
- What is the source of data for AI systems?

a. User opinions <input type="checkbox"/>	b. User activity <input type="checkbox"/>
c. Pre-programmed data <input type="checkbox"/>	d. Randomly generated data <input type="checkbox"/>
- How can Google access a user's data according to the passage?
 - By hacking the user's phone ☐
 - Through permissions granted for pre-installed apps ☐
 - By buying user data from third parties ☐
 - By accessing the phone's operating system directly ☐

B. Fill in the blank.

- The data stored on an Android smartphone includes information about the user's _____, such as friends, relatives, and colleagues.
- _____ is usually stored somewhere on some large servers and databases.
- _____ is a system of moral principles and a branch of Philosophy which defines what is good for individuals and society.

C. Answer the following questions:

- What are the components of the Good AI System?

.....

- What do you mean by Negative adoption of AI systems?

.....

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ACCESS TO AI AND ETHICAL ISSUES

A. Write 'T' for true and 'F' for false.

1. Data is the source of every AI system that we see today.
2. The systems cannot exist without the data.
3. Google cannot easily access this close information of yours at any time.
4. Artificial Intelligence collects data and learn from the real-world.

B. Write the short note on the followings:

1. Bias in Real-World Data
.....
2. The Problem of Inclusion
.....

C. Answer the following Questions:

1. Which app can record your contact list, location, chats, Email and photos?
.....
2. What do you mean by Black Box Problem?
.....

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Chapter-10

CLASS 8

BASICS OF PYTHON

A. Fill in the blanks:

1. Python was developed by
2. The operators are used to assign the value of the right expression to the left operand.
3. A value is a collection of one or more characters put in single or double quotes.
4. A computer language is the means by which are transmitted to the computer.
5. An is a program used to translate assembly language into machine language.

B. Answer the following questions.

1. Define the term data types.

.....

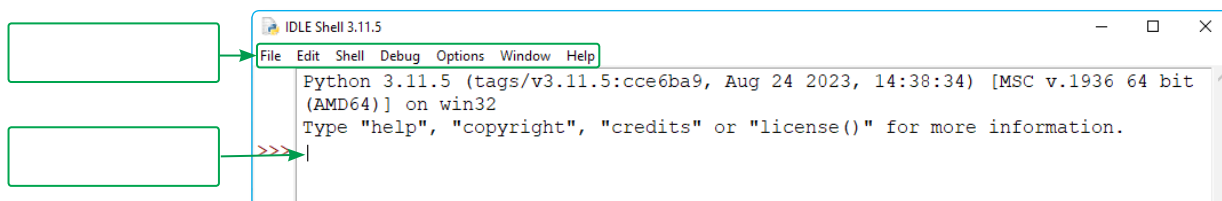
2. Write the rules for naming variables in python.

.....

3. Define computer language.

.....

C. Identify the components of Python IDLE window and write down the names in the given boxes.



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BASICS OF PYTHON

A. Tick (✓) the correct option.

- Which of the following is not a valid variable name?
 a. Employee_num ☐ b. Answer_value ☐
 c. Variable1 ☐ d. my name ☐
- Which of the following is not a computer language?
 a. Machine Language ☐ b. Assembly language ☐
 c. Interpreter ☐ d. Natural Languages ☐
- What will be the output of the following expression?
 $22 // 3$
 a. 7 ☐ b. 1 ☐
 c. 0 ☐ d. 5 ☐

B. Answer the following questions.

- Differentiate between compiler and interpreter.

.....

- How can input data type be changed from string to float?

.....

- Why one should use comments in program?

.....

- What are the disadvantages of high level language?

.....

- Write the steps to work in the interactive mode.

.....

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Chapter-11

CLASS 8

CONTROL FLOW STATEMENTS

A. Tick (✓) the correct option.

1. conditional statement is used to test multiple conditions.

a. if

☐

b. if...else

☐

c. if...elif...else

☐

d. All of these

☐

2. Which of the following conditionals can test multiple conditions?

a. if Statement

☐

b. if...else Statement

☐

c. if...elif...else Statement

☐

d. None of these

☐

3. What is the answer of the expression, $3^{**}3^{**}3$?

a. 3

☐

b. 27

☐

c. 9

☐

d. 18

☐

B. Write the output of the following programs in the given box:

a. `a = 200`

`b = 33`

`if b > a:`

`print("b is greater than a")`

`else:`

`print("b is not greater than a")`

.....

.....

.....

.....

b. `num = 3.4`

`if num > 0:`

`print("Positive number")`

`elif num == 0:`

`print("Zero")`

`else:`

`print("Negative number")`

.....

.....

.....

.....

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CONTROL FLOW STATEMENTS

A. Write a short note on the following:

1. Nested if statement:
2. if...elif...else statement:
3. if else statement: :

B. Fill in the blanks.

1. The statements are used as decision making statements in Python.
2. The print() function to output on the screen.
3. The statement forces execution of next iteration.
4. The statement print ("Python"+"Programming") will print
5. The function use to take the input form the user.

C. Write a Python program to print all the element of the following sequence.

['a','e','i','o','u']

.....

.....

.....

.....

.....