



GEETA DEVI DAV PUBLIC SCHOOL

BHANDARKOLA, SATAR ROAD, DEOGHAR

DIWALI & CHHAT PUJA HOLIDAY HOME WORK-(2025-26)

Class: -XI (Science ,Commerce & Humanaties)

ENGLISH

ASSIGNMENT: INTEGRATED GRAMMAR WORKSHEETS

Determiners & Tenses

I. Gap Filling (Determiners)

Fill in the blanks with suitable determiners.

1. _____ honesty is the best policy.
2. He didn't buy _____ apples because they were too expensive.
3. _____ of the two answers is correct.
4. There isn't _____ sugar left in the jar.

II. Cloze Passage (Tenses)

Read the passage below and fill in the blanks with the correct forms of the verbs given in brackets.

Last Sunday, I _____ (decide) to visit my grandparents. I _____ (not/see) them for several months. When I _____ (reach) their house, they _____ (sit) in the garden. My grandmother _____ (bake) a cake and my grandfather _____ (read) the newspaper. It was a pleasant afternoon.

III. Gap Filling (Modals)

Fill in the blanks with appropriate modal verbs.

1. You _____ (must/should) wear a helmet while riding a bike.
2. He _____ (may/might) come to the party tonight.
3. Students _____ (can/could) ask questions after the lecture.

4. I _____ (must/should) finish my homework before dinner.
5. She _____ (may/might) be sleeping now.

IV. Prepositions

Complete the sentences with the correct prepositions.

1. She is interested _____ learning French.
2. They arrived _____ the airport late.
3. He apologized _____ being late.
4. The cat jumped _____ the table.
5. We discussed the problem _____ our teacher.

V. Subject-Verb Agreement

Identify the errors in the following sentences and correct them.

1. The team of doctors are on duty.
2. Either my mother or my sisters is going to attend the function.
3. The news have shocked everyone.
4. Each of the players were given a medal.
5. Mathematics are my favourite subject.
6. Neither the teacher nor the students knows the answer.

VI. Sentence Completion

Complete the sentences with the correct form of the verb in brackets.

1. She _____ (go) to the market every Sunday.
2. By the time we reached, the train _____ (leave).
3. If he _____ (study) hard, he will pass the exam.
4. The sun _____ (rise) in the east.

VII. Active-Passive Voice

Rewrite the following sentences in the passive voice.

1. The chef cooked a delicious meal.
2. The students are writing the exam.
3. She has completed her project.

4. They will announce the results tomorrow.
5. Someone stole my bag.
6. The teacher praised the student.

VIII. Sentence Transformation

Rewrite the sentences in the other voice.

1. The manager is reviewing the report.
2. A letter was sent by me yesterday.
3. The police have caught the thief.
4. The workers are repairing the road.

IX. Reported Speech

Convert the following sentences into reported speech.

1. She said, 'I am reading a book.'
2. He said, 'I will help you tomorrow.'
3. They said, 'We have completed our homework.'
4. She said, 'I can solve this problem.'
5. He said, 'I was watching TV when you called.'

X. Dialogue Completion

Complete the dialogue using suitable reported speech forms.

A: 'Are you coming to the party?'

B: _____

A: 'I will help you with your homework.'

B: _____

A: 'I am feeling sick.'

B: _____

A: 'Did you complete the project?'

B: _____

A: 'I have never seen this movie.'

B: _____

XI. Clauses & Connectors

Join the sentences using suitable connectors.

1. I was tired. I went to bed early.
2. She studied hard. She passed the exam.
3. He is rich. He is not happy.
4. I like tea. I don't like coffee.
5. They were late. They missed the bus.
6. I stayed at home. It was raining.

XII. Sentence Reordering

Rearrange the words to form meaningful sentences.

1. always / helps / she / others / .
2. went / they / to / market / the / yesterday / .
3. reading / is / he / newspaper / the / morning / every / .
4. beautiful / very / is / the / painting / .

XIII. Non-Finites & Gerunds

Fill in the blanks with the correct form of the verb (gerund, infinitive, participle).

1. She enjoys _____ (paint) in her free time.
2. I want _____ (learn) French.
3. _____ (See) the results, he was very happy.
4. They avoided _____ (talk) about the incident.
5. _____ (Run) fast, he reached the station in time.
6. He is interested in _____ (write) stories.

XIV. Editing Task

Identify and correct the errors in the following sentences.

1. He is good in mathematics.
2. She is married with a doctor.
3. I look forward to meet you.
4. He insisted me to go there.

XV. Transformation of Sentences

Rewrite the sentences as directed.

1. She is too young to vote. (Begin: So...)
2. I haven't seen him for a long time. (Begin: It...)
3. He didn't come, but I was not surprised. (Use: Although...)
4. She said, 'I will call you tomorrow.' (Change to reported speech)
5. The book is very interesting. (Begin: Such...)
6. He is so tired that he cannot walk. (Begin: Too...)
7. I regret that I cannot attend. (Begin: I wish...)
8. They built the house last year. (Change into passive voice)
9. We will start as soon as he arrives. (Begin: No sooner...)
10. She was reading when I entered. (Begin: While...)

XVI. Integrated Editing Task

Read the following paragraph and correct all the errors related to grammar, punctuation, and vocabulary.

Last summer, I goes to my uncle's village. The weather were very hot but I enjoyed a lot. My cousins is playing outside while I reading a book. We had delicious food everyday. I will never forget this holidays.

Final Practice Paper (Integrated Grammar)

Attempt all questions. The exercise covers determiners, tenses, modals, prepositions, subject-verb agreement, voice, reported speech, non-finites, clauses, and sentence transformations.

1. Fill in the blanks with appropriate determiners.
2. Fill in the passage with correct tenses.
3. Correct the errors in the following sentences.
4. Change the voice of these sentences.
5. Convert the following sentences into reported speech.
6. Complete the sentences with suitable prepositions.
7. Rewrite sentences using the connectors provided.
8. Rewrite sentences as directed (transformation of sentences).
9. Fill in with gerunds or infinitives.
10. Edit the following paragraph for grammar and vocabulary errors.

- **Duration:** 8 days
Each day, students

Day	Word	Meaning	Source (where found)	Sentence from the source	Your own sentence using the word creatively
1	Ephemeral	Lasting for a very short time	"The ephemeral beauty of the sunset..." – <i>The Hindu</i>	"The ephemeral beauty of the sunset faded too soon."	"Teenage trends are ephemeral; they change every month."

must record **two words** (total = 16 words).

• **Source:**

Words may come from:

- Texts in the syllabus (Hornbill, Snapshots)
- Newspapers, novels, magazines
- Movies, OTT shows, podcasts, or daily conversation

□ **Format:**

Maintain your entries in a **Word Journal Notebook** with the following format:

BIOLOGY

Q1. Do the given questions in notebook.

1. Which one of the following statements about enzymes is true?

1. Enzymes are proteins whose three dimensional shape is key to their functions.

2. Enzymes speed up reactions by lowering the activation energy.

3. Enzymes are highly specific for reactions.

4. Enzyme activity is affected by the change in temperature and pH.

2. Which one is correct?

(a) $E + S \rightarrow ES \rightarrow EP \rightarrow EP$

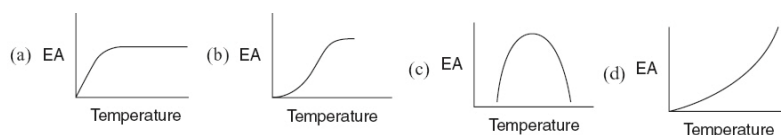
(b) $E + S \rightarrow ES \rightarrow EP \rightarrow E + P$

(c) $E + S \rightarrow ES \rightarrow EP \rightarrow E - P$

(d) $E + S \rightarrow ES \rightarrow EP \rightarrow E - P$

3. Which one of the graphs shows the effect of temperature on the enzymatic activity?

a) A



- b)
- c) B
- d) C
- e) D

4. Assertion : Interphase is resting stage.

Reason : The interphase cell is metabolically inactive.

5. Assertion : DNA synthesis occurs in G1 and G2 periods of cell cycle.

Reason : During G1 and G2 phase, the DNA content become double.

6. Assertion : Karyokinesis occurs in M-phase.

Reason : Cell division stops in M-phase.

7. Read the passage carefully and answer the questions that follow.

Proteins are the most abundant biomolecules of the living system. The chief sources of proteins are milk, cheese, pulses, fish, meat, peanuts, etc. They are found in every part of the body and form a fundamental basis of the structure and functions of life. These are also required for the growth and maintenance of the body. The word protein is derived from the Greek word, 'proteios' meaning 'primary' or of 'prime importance'. Chemically, proteins are the polymers in which the monomeric units are the α -amino acids. Amino acids contain an amino ($-\text{NH}_2$) and carboxylic ($-\text{COOH}$) functional groups. Depending upon the relative position of the amino group with respect to the carboxylic group, the amino acids can be classified as α , β , and γ -amino acids. Amino acids which are synthesised by the body are called non-essential amino acids. On the other hand, those amino acids which cannot be synthesized in the human body and are supplied in the form of diet (because they are required for proper health and growth) are called essential amino acids.

i) The name of linkage joining two amino acids.

ii) What are polypeptides?

- a) 10 α -amino acids joined together
- b) amino acids joined together
- c) 20 β -amino acids joined together
- d) None of the above

(iii) What type of bonding helps in stabilizing the α -helix structure of proteins?

OR

(a) What are essential and non-essential amino acids? Give two examples of each.

(b) How are nucleosides different from nucleotides?

8. For a chromatid to be classified as a chromosome, what attributes does it need to possess?

9. During which phase of the cell cycle does the DNA get synthesized?

10. Name the cell cycle phase that has the longest duration.

Q2. Brainstorming Activity-Make a SUDOKU puzzle on any topic of your choice from NCERT book.

PHYSICS

1. The escape velocity on the surface of a planet is v . If the radius of the planet is doubled and mass is quadrupled, the new escape velocity is:
(a) V (b) $2v$ (c) $v/2$ (d) $\sqrt{2} v$
2. The orbital velocity of a satellite close to Earth's surface is about:
(a) 7.9 km/s (b) 11.2 km/s (c) 5.6 km/s (d) 3.2 km/s
3. A satellite is revolving in a circular orbit of radius R with period T . If its orbital radius is doubled, the new period is:
(a) $2T$ (b) $2\sqrt{2} T$ (c) $4T$ (d) $T/2$
4. The ratio of escape velocity to orbital velocity near Earth's surface is:
(a) 1 (b) $\sqrt{2}$ (c) 2 (d) $1/\sqrt{2}$
5. If the acceleration due to gravity at Earth's surface is g , then at a height equal to Earth's radius it is:
(a) $g/2$ (b) $g/3$ (c) $g/4$ (d) $g/\sqrt{2}$
6. The time period of a satellite in a circular orbit just above Earth's surface is:
(a) 84 minutes (b) 24 hours (c) 12 hours (d) 42 minutes
7. The potential energy of a body of mass m at Earth's surface is:
(a) $-GMm/R$ (b) $-2GMm/R$ (c) GMm/R (d) Zero
8. A body weighs 63 N on Earth. What will it weigh on a planet with half the radius and same density?
(a) 63 N (b) 126 N (c) 252 N (d) 31.5 N
9. The orbital velocity of a satellite at height $h \ll R$ is:
(a) $\sqrt{gR}$ (b) $\sqrt{gR/2}$ (c) $\sqrt{2gR}$ (d) gR

10. The work done in moving a body of mass m from Earth's surface to infinity is.
(a) GMm/R (b) $2GMm/R$ (c) Zero (d) $-GMm/R$
11. The escape velocity on Moon is 2.3 km/s . If g on Moon is $1/6$ th of Earth, the radius of Moon is approximately:
(a) $1/6 R_E$ (b) $1/4 R_E$ (c) $1/2 R_E$ (d) $1/3 R_E$
12. The gravitational potential at Earth's surface is $-6.4 \times 10^7 \text{ J/kg}$. The escape velocity is:
(a) 8 km/s (b) 11.2 km/s (c) 7.9 km/s (d) 10 km/s
13. A satellite is moving in a circular orbit of radius R . Its total energy is:
(a) $-GMm/2R$ (b) $-GMm/R$ (c) $GMm/2R$ (d) Zero
14. The height at which the value of g becomes $1/4$ th of its surface value is:
(a) R (b) $\sqrt{3} R$ (c) $2R$ (d) $R/2$
15. The orbital speed of a satellite around Earth is independent of:
(a) Mass of satellite (b) Radius of orbit
(c) Mass of Earth (d) Gravitational constant
16. The time period of a geostationary satellite is:
(a) 12 h (b) 24 h (c) 48 h (d) 6 h
17. The energy required to move a satellite from radius R to $2R$ is:
(a) $GMm/4R$ (b) $GMm/2R$ (c) GMm/R (d) $GMm/8R$
18. The value of g at depth d is:
(a) $g(1-d/R)$ (b) $g(1-d/2R)$ (c) $g(1-d^2/R^2)$ (d) g
19. The orbital velocity of a satellite at height h is:
(a) $\sqrt{GM/(R+h)}$ (b) $\sqrt{GM/R}$ (c) $\sqrt{gR}$ (d) $\sqrt{2GM/(R+h)}$
20. The escape velocity from Earth does not depend on:
(a) Mass of body (b) Mass of Earth
(c) Radius of Earth (d) Gravitational constant

CHEMISTRY

1. Solve all NCERT intext & Exercise numericals from chapters –
(a) Structure of atom
(b) Chemical Thermodynamics (Upto Enthalpy of reaction)
2. Balance all redox reactions from NCERT intext & Exercise.
3. Explain the construction of an Electrochemical cell and write the cell reaction.

Projects :

Roll no : 1 – 5

To prepare rayon threads from filter papers using cuprammonium process.

Roll no: 6 – 10

To detect the presence of adulterants in fats,oil, sugar ,chilli powder, turmeric powder and butter.

Roll no : 11 – 15

To prepare potash alum from scrap aluminium.

Roll no: 16 – 20

To find out the effect of acid and alkalies on tensile strength of cotton,wool and nylon fibres.

Roll no : 21 – last roll no.

To analyse the given samples of commercial antacids by determining the amount of hydrochloric acid they can neutralise.

MATHS

Core Maths:

Do all the exercise of chapter Limit and Derivative with their formula and rules in a separate copy.

Applied Maths

Do all the exercise of chapter Permutation and Combination with their formula and rules in a separate copy.

ACCOUNTANCY

Assignment:

- Solve any two questions from the topic Provision for Depreciation(One from each SLM and DBM) and two questions from Assets Disposal Account.
- Solve two normal questions of Depreciation(One from each SLM and DBM) in which prepare 'Depreciation Account' also.

Project:

A.

Personal Accounting Project

Theme: "My Diwali Budget"

Idea:

Record your Diwali-related spending — clothes, gifts, decorations, sweets, etc.

Record whatever you got as gift as your asset – Cash (Asset)

Create a personal Cash Book, Record Journal Entries, Post them into Ledger and Prepare Trial Balance

Highlight areas of saving and overspending.

Add Creativity: Present it as a "Diwali Expense Diary" with decorated pages.

Or

B.

- Present/Paste various types of Source documents used in Diwali on a chart Paper and decorate it with Diwali Theme.
- Present the format of Trading Account, Profit and Loss Account and Balance Sheet on multiple chart papers attractively

General instructions:

- i) Assignment should be done in your class work notebook.
- ii) Project work (A) should be done in Stick file and Project (B) on separate chart papers.
- iii) You are free to implement any kind of decorative ideas in your project.

BUSINESS STUDIES.

Assignment:

Write any five Case Studies with questions from the chapter Sources of Business Finance. You can paste print out of Case Study.

Project:

Local Business Development During Chhath Puja

Topic: "Small Business and Cottage Industries"

Project File content:

Use photos/drawings of artisans making diyas, baskets, fruits decoration

Explain: How small industries thrive during festivals

Mention: Employment generation & women entrepreneurship

Concept covered: Small-scale and local enterprises.

General instructions:

i) Assignment should be done in your class work notebook.

ii) Project work should be done in stick file.

iii) You are free to implement any kind of decorative ideas in your project.

ECONOMICS

- Discuss which products are **elastic** and **which are inelastic** during Diwali. Justify with examples.
- Explain the concept of **tax incidence** using one Diwali product (who bears GST burden — consumer or producer?).
- Suggest **value-based recommendations** for consumers and small traders to optimize spending and sales during Diwali under GST 2.0.

➤ **“Instagram Ads & Impulse Buying – The New Diwali Trend”**

“Consumer behaviour & advertising”

Show how social media ads change demand even without price change

➤ **“Festive Discounts – Do They Really Help Sellers?”**

Elasticity of demand & revenue concept

Shops give % discount to increase sales — does total revenue rise or fall?

➤ **Make a chart paper / infographic showing:**

- GST flow: Manufacturer → Retailer → Consumer
- Price and demand change for 3–5 products
- Use festive illustrations like diyas, sweets, crackers

PROJECT

The Diwali season in India is known for a huge surge in consumer spending on sweets, clothes, electronics, decorations, and gifts.

With the introduction of **GST 2.0**, the government aimed to simplify the tax system, reduce cascading taxes, and bring more transparency.

However, any change in tax rates affects **product prices**, which in turn changes the **demand pattern** of consumers. Make a **chart paper infographic project** exploring how GST 2.0 has impacted purchasing behaviour in your city during the festive season.

GEOGRAPHY

Objective Questions

1. **Which of the following is not a factor affecting climate?**
 - a) Latitude
 - b) Altitude
 - c) Longitude
 - d) Distance from the sea
2. **The coldest place in India is:**
 - a) Dras
 - b) Ladakh
 - c) Mawsynram
 - d) None of the above
3. **Which of the following states suffers from 'loo'?**
 - a) Tamil Nadu
 - b) Assam
 - c) Gujarat
 - d) None of the above
4. **The term 'monsoon' is derived from the Arabic word:**
 - a) Mausim
 - b) Monsoon
 - c) Mawsim
 - d) None of the above
5. **The windward side of the Western Ghats receives more rainfall due to:**
 - a) Orographic rainfall
 - b) Convectional rainfall
 - c) Cyclonic rainfall
 - d) None of the above
6. **Which of the following is the driest place in India?**
 - a) Leh
 - b) Jaisalmer
 - c) Mawsynram
 - d) None of the above
7. **The 'Jet stream' is associated with:**
 - a) Cyclones
 - b) Monsoon winds
 - c) Westerlies
 - d) None of the above
8. **The 'loo' is a hot, dry wind that blows during:**
 - a) Winter
 - b) Summer

- c) Monsoon
 - d) None of the above
9. **Which of the following is a characteristic of tropical climates?**
- a) High temperature throughout the year
 - b) Seasonal rainfall
 - c) Both a and b
 - d) None of the above
10. **The 'Koeppen's classification' is based on:**
- a) Temperature and precipitation
 - b) Vegetation
 - c) Soil types
 - d) None of the above
11. **The 'Western disturbances' are associated with:**
- a) Summer monsoon
 - b) Winter monsoon
 - c) Cyclones
 - d) None of the above
12. **Which of the following is not a feature of the monsoon?**
- a) Seasonal reversal of winds
 - b) High humidity
 - c) Continuous rainfall
 - d) None of the above
13. **The 'Kharif' crops are sown during:**
- a) Winter
 - b) Summer
 - c) Monsoon
 - d) None of the above
14. **Which of the following is a characteristic of the 'Tundra' climate?**
- a) Permafrost
 - b) Low temperatures
 - c) Short growing season
 - d) All of the above
15. **The 'El Niño' phenomenon leads to:**
- a) Droughts
 - b) Floods
 - c) Both a and b
 - d) None of the above
16. **The 'La Niña' phenomenon is characterized by:**
- a) Warmer ocean temperatures
 - b) Cooler ocean temperatures
 - c) No change in ocean temperatures
 - d) None of the above
17. **The 'Equatorial' climate zone is characterized by:**
- a) High rainfall
 - b) High temperatures
 - c) Both a and b
 - d) None of the above
18. **The 'Mediterranean' climate is characterized by:**
- a) Hot, dry summers
 - b) Mild, wet winters

- c) Both a and b
 - d) None of the above
19. **The 'Tropical Rainforest' climate is characterized by:**
- a) High temperatures
 - b) High humidity
 - c) High rainfall
 - d) All of the above
20. **The 'Savanna' climate is characterized by:**
- a) Seasonal rainfall
 - b) High temperatures
 - c) Both a and b
 - d) None of the above
21. Draw a political map of India on chart paper and mark important mineral locations
- a) Iron ore (Odisha, Jharkhand, Chhattisgarh)
 - b) Coal (Jharkhand, West Bengal, Chhattisgarh)
 - c) Bauxite (Odisha, Gujarat, Jharkhand)
 - d) Mica (Jharkhand, Bihar, Rajasthan)
 - e) Copper (Rajasthan, Madhya Pradesh)
 - f) Gold (Karnataka)
 - g) Petroleum (Assam, Gujarat)
 - h) Natural Gas (Rajasthan, Gujarat)
 - i) Hydroelectric Power Stations (Bhakra Nangal, Tehri, Hirakud)

HISTORY

Write about Mongol Empire and Ghengiz Khan's Family.

Project Guidelines:

1. Topic GENGHIZ KHAN

- 2. Research:** Conduct thorough research using textbooks, reference books, and online resources.
- 3. Outline:** Create an outline of the project, including introduction, main body, and conclusion.
- 4. Content:** Include maps, illustrations, and primary sources to support the project.
- 5. Word Limit:** 1500-2000 words (approx.).
- 6. Presentation:** Submit a neatly decorative, handwritten project & assignment.

Submission Deadline:

Please submit the project by 29.10.2025

POLITICAL SCIENCE

➤ ASSIGNMENT:

Answer the following Judiciary

MCQ:

- 1. Who is authorised to transfer the Judge of one High Court to another High Court ?**
 - (1) The President**
 - (2) The Chief Justice of India**
 - (3) A Collegium of Judges of the Supreme Court**
 - (4) The Law Minister**
- 2. The civil affairs like marriage, divorce, inheritance etc. which has been authorised by the Constitution to make legal laws ?**
 - (1) Centre, by the Union List of the Constitution**
 - (2) States, by the State List of the Constitution**
 - (3) Centre and States, by the Concurrent List of the Constitution**
 - (4) Religious authorities which have relation to individual affairs**
- 3. Why did one of the High Courts in India decree that "bandhs are unconstitutional and punitive"?**
 - (1) It infringes on the fundamental rights of some groups of people**
 - (2) It is not in exercise of a fundamental freedom**
 - (3) It adversely affects production**
 - (4) It is not part of a right to protest**
- 4. To whom can a case of dispute in the election of the President of India be referred to?**
 - (1) Election Commission**
 - (2) Parliament**
 - (3) Supreme Court of India**
 - (4) Cabinet**
- 5. What is the category in which the negotiating strategy of a strike by the Government employees falls?**
 - (1) Fundamental Rights of freedom of association and expression**
 - (2) Legal Right**
 - (3) Trade Union right as common law**
 - (4) There is no right**
- 6. Which of the following is at the apex of the subordinate criminal courts ?**
 - (1) Supreme Court**
 - (2) High Court**
 - (3) Court of Sessions Judge**
 - (4) Court of District Judge**
- 7. Which among the following court has the original jurisdiction to hear petition and give decision challenging election of the Lok Sabha/ Vidhan Sabha**
 - (1) District Court of a constituency**
 - (2) High Court of the State**

(3) Special Judge authorised by the Chief Justice of India

(4) Supreme Court

8. The main function of the judiciary is:

(1) law formulation

(2) law execution

(3) law adjudication

(4) law application

9. The salaries and emoluments of the judges of the Supreme Court are charged on:

(1) The Reserve Bank of India

(2) The Contingency Fund of India

(3) The Consolidated Fund of India

(4) The Finance Commission

10. Judges of the Supreme Court and High Court can be removed by

(1) The President

(2) Parliament

(3) Union Council of Ministers

(4) Chief Justice of the Supreme court

➤ PROJECT

Write the name of 10 members of constituent assembly. Explain their role and paste their photographs.

COMPUTER SCIENCE

Section A – Short Answer Questions

1. Define a tuple. Why are tuples called *immutable*?
2. What is the output of the following code:

```
L = [2, 4, 6, 8]
print(L[1:3])
```
3. What will be the output?

```
fruits = ["apple", "banana", "mango"]
fruits.append("grape")
print(fruits)
```
4. Write the syntax and use of the following list functions:
(a) append() (b) sort()
5. How can you **update** a value in a dictionary? Give an example.
6. Write a Python statement to remove a key 'age' from the dictionary student.
7. How can you **concatenate two tuples**? Give an example.

8. What will be the result of the following code?

```
tup = (10, 20, 30)
print(len(tup))
```

Section B – Short Answer Questions

11. Explain any **three list functions** with examples.
12. Write a Python code to input five numbers into a list and display their sum.
13. Write Python code to store and display marks of three subjects using a dictionary.
14. Explain **three properties of tuples** with suitable examples.
15. Write code to create two tuples and display their concatenation and repetition.

Section C – Long Answer Questions)

17. Write a Python program to create a list of 5 numbers entered by the user.
 - i) Display the list
 - ii) Display the **maximum**, **minimum**, and **average** value of the list
18. Write a program to create a dictionary storing student names as **keys** and their marks as **values**.
 - i) Display all key-value pairs
 - ii) Display the average marks of the class
19. Explain the differences among **List, Tuple, and Dictionary** with at least four points and examples for each.
20. Write a Python program to:
 - i) Create a tuple of integers
 - ii) Count how many times a number (say 5) appears in the tuple
 - iii) Display the index of its first occurrence
21. Explain with example the use of these dictionary methods:
 - i) keys()
 - ii) values()
 - iii) items()
 - iv) get()

INFORMATICS PRACTICES

Section A – Short Answer Questions

- 1) Write two points of difference between a **list** and a **dictionary**.
- 2) What is the output of the following code:
 - a. `L = [2, 4, 6, 8]`
 - b. `print(L[1:3])`
- 3) What will be the output?
 - i. `fruits = ["apple", "banana", "mango"]`
 - ii. `fruits.append("grape")`
 - iii. `print(fruits)`

- 4) Write the syntax and use of the following list functions:
(a) append() (b) sort()
- 5) How can you **update** a value in a dictionary? Give an example.
- 6) Write a Python statement to remove a key 'age' from the dictionary student.
- 7) What will be the result of the following code?
 - i. L1 = [10, 20, 30]
 - ii. print(len(L1))

Section B – Short Answer Questions

- 1) Explain any **three list functions** with examples.
- 2) Write a Python code to input five numbers into a list and display their sum.
- 3) How are **dictionary keys** different from **values**? Give one example for each.
- 4) Write Python code to store and display marks of three subjects using a dictionary.
- 5) Explain **three properties of tuples** with suitable examples.

Section C – Long Answer Questions)

- 6) Write a Python program to create a list of 5 numbers entered by the user.
 - i) Display the list
 - ii) Display the **maximum**, **minimum**, and **average** value of the list
- 7) Write a program to create a dictionary storing student names as **keys** and their marks as **values**.
 - i) Display all key-value pairs
 - ii) Display the average marks of the class
- 8) Explain the differences among **List**, **and Dictionary** with at least four points and examples for each.
- 9) Write a Python program to:
 - i) Create a LIST of integers
 - ii) Count how many times a number (say 5) appears in the List
 - iii) Display the index of its first occurrence
- 9) Explain with example the use of these dictionary methods:
 - i) keys()
 - ii) values()
 - iii) items()
 - iv) get()

Questions (For Practice)

1. Differentiate between **mutable** and **immutable** data types with examples.
2. Predict the output of:

```
a = [1, 2, 3]
b = a
b.append(4)
print(a)
```

*****THE END*****