

SUMMER VACCATION HOME WORK

SESSION : 2026-27

CLASS-VI

Subject : ENGLISH

Class: VI

1. Reading Task

Read any one English storybook suitable for your age.

2. Vocabulary Builder

Learn and write meanings of 20 new English words.

3. Creative Writing

Write an essay (150–200 words) on " How I Spent My Holidays"

4.. Handwriting Practice

Write one page daily in neat handwriting from your English textbook

HINDI

नोट: 1. प्रतिदिन एक पृष्ठ लिखना है।

2. प्रतिदिन एक पृष्ठ पढ़ना है।

1. स्वर वर्ण लिखिए।

2. व्यंजन वर्ण लिखिए।

3. बारहखड़ी – 'क' वर्ग, 'च' वर्ग।

4. 2 वर्ण वाले 10 शब्द लिखिए।

5. 3 वर्ण वाले 10 शब्द लिखिए।

6. 'आ' की मात्रा वाले 10 शब्द लिखिए।

7. बारहखड़ी - ट वर्ग, त वर्ग, प वर्ग।

8. अपना परिचय लिखिए।

9. अपनी दिनचर्या लिखिए।

10. संयुक्त व्यंजनों से बनने वाले 1-1 शब्द लिखिए -

(क्ष = क् + ष, त्र = त् + र, ज्ञ = ज् + ञ, श्र = श् +

र)।

ODIA

୧. ପ୍ରତିଦିନ ୧ ପୃଷ୍ଠା ପୁସ୍ତକ ହସ୍ତାକ୍ଷର ଲେଖିବା ।

୨. ବର୍ଣ୍ଣମାଳା ଲେଖିବ ।

୩. ଓଡ଼ିଆ ମାତ୍ରା ଓ ଫଳା ଗୁଡ଼ିକୁ ଲେଖିବ

୪. ସ୍ଵଚ୍ଛାକ୍ଷର ଲେଖିବ ଓ ପଢ଼ିବ ।

୫. ଛବିଳ ମଧୁ ବର୍ଣ୍ଣବୋଧ ବହିର ଶବ୍ଦ ଗୁଡ଼ିକୁ ପଢ଼ିବ ଓ ଲେଖିବ ।

SCIENCE

- 1.Name the two main types of roots.
- 2.Which root system is found in wheat?
- 3.Which root system is found in mustard plant?
- 4.Give one example of taproot.
- 5.Give one example of fibrous root.
- 6.What is a herb?
- 7.What is a shrub?
- 8.What is a tree?
- 9.What is a climber?
- 10.What is a creeper?
- 11.What is habitat?
12. Name one aquatic habitat.
- 13.Name one terrestrial habitat.
- 14.Give one example of desert habitat.
- 15.Name one mountain habitat animal.

16. Explain taproot system with diagram (or features).
17. Describe fibrous root system with examples.
18. Write three differences between taproot

MATHS

Chapter: Patterns in Mathematics

Section A: Very Short Answer (1 mark each)

- 1 What is mathematics mainly considered as?
- 2 Write the first five counting numbers.
- 3 Write the first five even numbers.
- 4 Write the first five odd numbers.
- 5 What is a number sequence?

Section B: Short Answer (2 marks each)

- 1 Give two examples where mathematics is used in daily life.
- 2 What are triangular numbers? Write first five.
- 3 What are square numbers? Write first five.
- 4 Write the next three numbers: (a) 1,2,4,8 (b) 1,3,5,7
- 5 What is number theory?

Section C: Medium Answer (3 marks each)

- 1 Identify the pattern: (a) 1,3,6,10 (b) 1,4,9,16
- 2 Explain why square numbers are called so.
- 3 Write rule for powers of 2 and powers of 3.
- 4 Show that $1+3+5+7 = ?$

Section D: Long Answer (5 marks each)

- 1 Explain how mathematics helps in real life.
- 2 Prove sum of first n odd numbers is a square number.
- 3 Explain relation between triangular and square numbers.

Section E: Activity

- 1 Draw triangular, square and cube numbers.
- 2 Draw next figures of stacked squares and triangles.
- 3 Make your own pattern using dots or matchsticks.

Section F: HOTS

- 1 Find next number: 1,7,19,37
- 2 Find: $1+2+3+2+1$
- 3 Write two patterns from daily life.

Project Work

Prepare a chart on number patterns and real-life applications with drawings.

Instructions

- 1 Write neatly in a notebook.
- 2 Complete before school reopens.
- 3 Draw diagrams properly.
- 4 Be creative in project work.

SST

📌 **Section A – NCERT Based Questions (Very Short & Short Answers)**

History (Our Past – I)

1. What is history? Why do we study history?
2. Name any two sources used by historians.
3. What do you understand by early humans?
4. What is a settlement?
5. Name two important archaeological sites.

Geography (The Earth: Our Habitat)

1. What is a map?
2. What is the difference between a map and a globe?
3. Name the four cardinal directions.
4. What are symbols in maps?
5. What is a scale?

Civics (Social and Political Life – I)

1. What is a family?
2. Name two types of families.
3. What is diversity?
4. Why is it important to respect diversity?
5. What is the role of government?

Section B – Long Answer Questions (NCERT Based)

1. Describe the life of early humans (food, shelter, tools).
2. Explain the importance of maps and globes.
3. Describe diversity in India with examples.
4. Explain the functions of government in our daily life.

Section C – Map & Diagram Work Draw and label:

1. Four directions (North, South, East, West)
2. A simple map of your classroom/home draw.
3. Tools used by early humans

Section D – Project Work (Any One)Choose One Topic:

- Early Human Life
- My Family and Diversity
- Types of Houses in India
- Maps and Directions
- Project Guidelines: 5–8 pages1Use simple language

Include drawings/pictures

Add a short conclusion

Section E – Creative Activity. Make a timeline of your life (birth to present).

Draw your dream house and write 5–6 lines about it.

Section F – Revision Work .Prepare short notes (1–2 pages each) from NCERT:

1. Early Humans
2. Maps and Globes
3. Diversity

MUSIC

Vocal:

- Practise 7 notes
- Prepare 2 folk songs

Dance:

- Prepare 1 dance of your choice

ART EDUCATION

ART

- (a) Draw and colour a road map (school to home) including nature, transport, etc.
- (b) Draw any two flowers of your choice and do shading neatly.

CRAFT

- a) Make any one best out of waste material (jute rope, waste paper, photo frame, wall hanging, etc.) – tribal based.

CLASS VII

SUBJECT: ENGLISH

1. Write and Learn the Question Answers of the Chapter: The Day the River Spoke

2. Vocabulary Builder

Learn and write meanings of 20 new English words.

3. Creative Writing

Write an essay (150–200 words) on " How I Spent My Holidays"

4.. Handwriting Practice

Write one page daily in neat handwriting from your English textbook

HINDI

सभी प्रश्न ध्यानपूर्वक पढ़कर ही कार्य करें।

प्रत्येक दिन का कार्य रोज पूरा करें, एक साथ न करें।

साफ, सुंदर और स्पष्ट लिखावट में लिखें।

सभी कार्य अलग कॉपी/फाइल में करें।
जहाँ संभव हो, चित्र/रंगों का प्रयोग करें।
अपने शब्दों में उत्तर लिखें, नकल न करें।
समय पर गृहकार्य पूरा करें।
छुट्टियों के बाद कॉपी जमा करना अनिवार्य है।
मौखिक कार्य कक्षा में प्रस्तुत करना होगा।
सभी कार्य घर से करके लाना अनिवार्य है।

■ सप्ताह 1

दिन 1: मल्हार पुस्तक से कहानी/कविता का चित्र बनाएं
दिन 2: 'माँ, कह एक कहानी' शीर्षक का कारण लिखें।
दिन 3: आँखों पर पट्टी बांधकर वस्तु पहचान गतिविधि + प्रश्न
दिन 4: पाठ सुनाकर अभिभावकों के विचार लिखें
दिन 5: संज्ञा शब्दों से वाक्य बनाइए
दिन 6: संज्ञा को सर्वनाम से बदलकर 5 वाक्य लिखें
दिन 7: प्रिय खेल का महत्व (30-40 शब्द)

■ सप्ताह 2

दिन 8: 'तीन बुद्धिमान' पाठ का चरित्र चित्रण
दिन 9: भविष्य के सपनों पर चर्चा + प्रश्न
दिन 10: 'फूल और काँटे' से रिक्त स्थान भरें
दिन 11: एकवचन-बहुवचन (चित्र सहित)
दिन 12: लिंग परिवर्तन
दिन 13: "मेरा विद्यालय" (30-40 शब्द)
दिन 14: चित्र देखकर कहानी लिखें

सप्ताह 3

दिन 15: 'तीन बुद्धिमान' पाठ से प्रश्न

दिन 16: 'फूल और काँटा' पर प्रश्न

दिन 17: 'पानी रे पानी' से रिक्त स्थान

दिन 18: सही शब्द चुनकर वाक्य पूरा करें

दिन 19: घर के कार्य का अनुभव (5 वाक्य)

दिन 20: संवाद लेखन (स्वच्छता विषय)

दिन 21: विद्यालय के भोजन पर विचार

पेज 6 की तस्वीर में कक्षा के अंदर सफाई पर संवाद का दृश्य दिया गया है

सप्ताह 4

दिन 22: जल-चक्र का चित्र और महत्व

दिन 23: बचपन की भोजन से जुड़ी याद

दिन 24: "स्वच्छ भारत" पोस्टर

दिन 25: पौधा लगाकर देखभाल लिखें

दिन 26: परिवार के सदस्य का वर्णन

दिन 27: MDP (Topic)

दिन 28: फिल्म देखकर उत्तर लिखें

फिल्म विकल्प:

Taare Zameen Par

Home Alone

The Lion King

प्रश्न:

आपने कौन-सी फिल्म देखी?

मुख्य पात्र कौन है?

सबसे अच्छा भाग कौन-सा लगा?

आपने क्या सीखा?

फिल्म क्यों पसंद आई?

✿ प्रेरणादायक संदेश (Page 7 से)

सीखना एक सुंदर यात्रा है

रोज कुछ नया सीखें

मेहनत और लगन से सफलता मिलती है

“आज का प्रयास, कल की सफलता”

ODIA

୧. ନିମ୍ନଲିଖିତ ସମସ୍ତ ବିଷୟ ଉପରେ ରଚନା ଲେଖି ଆଣିବ ।

i) ଗ୍ରୀଷ୍ମ ଋତୁ

ii) ତୁମର ପ୍ରିୟ ଖେଳ

iii) ପରିବେଶ ସୁରକ୍ଷା

iv) ତୁମ ଜୀବନର ଲକ୍ଷ୍ୟ

v) ଓଡ଼ିଶାର ପର୍ବ ଓ ପର୍ବାଣୀ

୨. ସାମୟିକ ଛୁଟି ମଞ୍ଜୁର ନିମନ୍ତେ ପ୍ରଧାନଶିକ୍ଷକଙ୍କ ନିକଟକୁ ଦରଖାସ୍ତ ଲେଖ ।

୩. ତୁମେ ଗ୍ରୀଷ୍ମ ଋତୁରେ କ'ଣ ଯୋଜନା କରିଛ ବର୍ଷାକାଳ କରି ବନ୍ଧୁ ନିକଟକୁ ପତ୍ର ଲେଖ ।

୪. ଯେକୌଣସି ୧୦୦ଗୋଟିର ବିପରୀତ ଶବ୍ଦ ଲେଖି ଆଣିବ ।

୫. ଯେକୌଣସି ୧୦୦ଗୋଟିର ପ୍ରତିଶବ୍ଦ ଲେଖି ଆଣିବ ।

SCIENCE

Holiday Homework: Acids, Bases and Indicators

Section A: MCQs

1. Which of the following is an acid? (a) Soap solution (b) Vinegar (c) Baking soda (d) Lime water
2. A base turns red litmus paper into: (a) Red (b) Blue (c) Green (d) Yellow
3. Which indicator gives green colour in a basic solution? (a) Turmeric (b) Litmus (c) China rose (d) Phenolphthalein
4. Turmeric indicator turns red in: (a) Acid (b) Base (c) Neutral solution (d) Salt
5. Which of the following is neutral? (a) Lemon juice (b) Vinegar (c) Sugar solution (d) Soap solution

Section B: Very Short Answer

6. What is an indicator? Give one example.

7. What happens to blue litmus paper in an acidic solution?
8. Name one natural indicator and its colour change in base.
9. What is a neutral solution? Give one example.
10. Why should we not taste unknown substances in the lab?

Section C: Short Answer

11. Differentiate between acids and bases (any 3 points).
12. Explain the use of turmeric as an indicator.
13. How can you identify vinegar, baking soda solution, and sugar solution using an indicator?
14. Explain how China rose indicator works.

Section D: Long Answer

15. Describe an experiment to test whether a given solution is acidic or basic using litmus paper.
16. Explain how soil treatment is done if soil is (a) Acidic (b) Basic.

Section E: Application

17. Design a secret message activity using a natural indicator.
18. A student observes: Red litmus no change, Blue litmus turns red, Turmeric no change. Identify the nature.

Bonus

19. Why does baking soda change the colour of natural indicators?
20. Can a substance be both acidic and basic? Explain.

MATHS

Chapter: Large Numbers Around Us

Section A: Very Short Answer (1 mark each)

- 1 How is 1 lakh written in numbers?
- 2 How many zeroes are there in 1 crore?
- 3 Write the smallest 6-digit number.
- 4 What is the largest 3-digit number?
- 5 Define estimation.

Section B: Short Answer (2 marks each)

- 1 Find how much less than 1 lakh is 75,000.
- 2 How much more than 1 lakh is 1,06,000?
- 3 Write number name of 12,78,830.

- 4 Write in numerals: (a) Five lakh four thousand eighty five (b) Twenty seven lakh thirty thousand
5 What is rounding off? Give one example.

Section C: Medium Answer (3 marks each)

- 1 Convert into Indian place value system: (a) 4050678 (b) 1020304050
2 Compare and write (<, >, =): (a) 30,000 ___ 3 lakh (b) 800,000 ___ 8 million
3 Find nearest: (a) Nearest thousand of 6,72,85,183 (b) Nearest lakh of 6,72,85,183
4 Find: (a) $4,63,128 + 4,19,682$ (b) $14,63,128 - 4,90,020$

Section D: Long Answer (5 marks each)

- 1 Explain Indian and International number system with examples.
2 Explain rounding off (round up & round down) with real-life examples.
3 Explain how large numbers are useful in daily life.

Section E: Activity

- 1 Draw place value chart (Indian system).
2 Represent 1 lakh using blocks or dots.
3 Create your own number pattern using multiplication.

Section F: HOTS

- 1 If a bus carries 50 people, how many people can 1 lakh buses carry?
2 If you travel 100 km daily, how much distance will you cover in 10 years?
3 Can you count 1 lakh numbers in one day? Explain.

Project Work

Prepare a chart on Indian vs International number system and real-life uses of large numbers.

Instructions

- 1 Write neatly in a notebook.
2 Show all steps clearly.
3 Draw diagrams where required.
4 Complete during summer vacation.

SST

Chapter11: From Barter System to Money

Section A: Very Short Answer Questions

1. What is a barter system?
2. What is money?
3. Define transaction.
4. What are commodities?
5. What is meant by double coincidence of wants?
6. What is portability?
7. What is durability?

8. What is divisibility?
9. What is a medium of exchange?
10. What is store of value?

Section B: Short Answer Questions

1. Explain how the barter system works with an example.
2. Why was barter system difficult in daily life?
3. What are the problems of barter system?
4. Explain the concept of double coincidence of wants with an example.
5. Why is money called a common measure of value?
6. What is meant by durability of money?
7. Explain portability with an example.
8. Why is divisibility important in money?
9. What are the basic functions of money?
10. How did coins become popular in early times?

Section C: Long Answer Questions

1. Explain the functions of money with examples.

Section D: Fill in the Blanks

1. The barter system is a system of exchange without using _____.
2. Money acts as a _____ of exchange.
3. Double coincidence of wants means both parties should _____.
4. _____ means goods can be divided into smaller parts.
5. _____ means money can be easily carried.
6. Wheat rotting shows lack of _____.
7. Coins were made from metals like gold, silver, and _____.

8. UPI is an example of _____ money.
9. Money helps in comparing value of goods, called _____.
10. The earliest form of exchange was _____.

Section E: True / False

1. Barter system uses money.
2. Money solves all problems of barter system.
3. Durability means money lasts long.
4. Coins were first used in modern times.
5. Digital payments are part of modern money system.

Section F: Real-Life Questions

1. Suppose you have a bicycle and want a mobile phone. Can barter system help easily? Why?
2. Why do shopkeepers prefer money instead of goods?
3. If money did not exist today, what problems would you face daily?
4. Why can't we use fruits as money?
5. How does mobile payment make life easier?
6. Imagine your school runs on barter system—what problems will arise?
7. Why is money better than exchanging goods like animals or crops?

Section G: Project Work

1. Prepare a chart showing stages of money: barter, commodity, coins, paper, digital.
2. Write a paragraph: A Day Without Money.

MUSIC

Vocal:

- Practise combination & patterns of notes
- Prepare 1 folk song & 1 patriotic song

Dance:

- Prepare 1 folk dance & 1 patriotic dance

ART EDUCATION

ART

(a) Draw and colour a colour wheel in your sketch file.

(b) Draw & shade any 3 leaves (still life).

(c) Draw & shade any landscape.

(d) Read Chapters 1 & 2 (Kriti).

CRAFT

a) Draw and colour any best out of waste material neatly

CLASS VIII

SUBJECT: ENGLISH

 Section A: Grammar

1. Fill in the blanks with correct verb form:

She _____ (go/goes) to school every day.

They _____ (is/are) playing in the field.

I _____ (was/were) happy yesterday.

 Section B: Writing Skills

1. Diary Entry

Write a diary entry about how you spent your holidays.

(80–100 words)


2. Letter Writing

Write an editorial letter to share your concerns about the growing pollution in your city.

(80–100 words)

 Section C: Activity - Poster Making

Make a poster on: "Education for All"

 Section E: Vocabulary

Write meanings of any 5 new English words you learned. Make one sentence with each word.

✧ General Instructions

- Do the work in your English notebook.
- Maintain neat and clean handwriting.
- Write with proper headings and margins.
- Check spelling and grammar.
- Submit on time.

HINDI

सभी प्रश्नों को ध्यानपूर्वक पढ़कर ही कार्य करें।

प्रत्येक दिन का कार्य रोज पूरा करें, एक साथ न करें।

साफ, सुंदर और स्पष्ट लिखावट में लिखें।

सभी कार्य अलग कॉपी/फाइल में करें।

जहाँ संभव हो, चित्र/रंगों का प्रयोग करें।

अपने शब्दों में उत्तर लिखें, नकल न करें।

समय पर गृहकार्य पूरा करें।

छुट्टियों के बाद कॉपी जमा करना अनिवार्य है।

मौखिक कार्य कक्षा में प्रस्तुत करना होगा।

सभी कार्य घर से करके लाना अनिवार्य है।

■ सप्ताह 1

दिन 1: मल्हार पुस्तक से एक पाठ पढ़ें और चित्र बनाइए (क्या सीखा?)

दिन 2: स्वदेश प्रेम का महत्व उदाहरण सहित लिखें

दिन 3: 'दो गौरैया' पाठ के किसी पात्र का चरित्र चित्रण

दिन 4: 'एक आशीर्वाद' कविता का संदेश (30-40 शब्द)

दिन 5: 'हरिद्वार' पाठ पढ़कर सार लिखें (8-10 पंक्तियाँ)

दिन 6: रिक्त स्थान भरें (मित्रलाभ से)

दिन 7: मेरा प्रिय मित्र / मेरी माँ (80 शब्द)

■ सप्ताह 2

दिन 8: 'एक आशीर्वाद' कविता पर प्रश्न

दिन 9: "मेरा विद्यालय" पर निबंध

दिन 10: दो मित्रों के बीच छुट्टियों की योजना पर संवाद

दिन 11: दिए गए शब्दों से वाक्य बनाइए

दिन 12: संज्ञा हटाकर सर्वनाम लगाइए

दिन 13: 'अंधेर नगरी' की मुख्य शिक्षाएँ

दिन 14: अपनी दिनचर्या (12-15 वाक्य)

■ सप्ताह 3

दिन 15: 'हरिद्वार' पाठ से प्रश्न

दिन 16: माता-पिता के सपनों के बारे में लिखें

दिन 17: मित्र को छुट्टियों में आमंत्रण पत्र

दिन 18: "स्वच्छ भारत" पोस्टर बनाएं

दिन 19: विशेषण के उदाहरण

दिन 20: क्रिया के उदाहरण व वाक्य

दिन 21: घर के काम में मदद का अनुभव

■ सप्ताह 4

दिन 22: छात्रों के सपनों पर आधारित प्रश्न (योजना, सहयोग, चुनौतियाँ)

दिन 23: पौधा लगाकर देखभाल लिखें

दिन 24: गाँव/शहर का वर्णन (12-15 पंक्तियाँ)

दिन 25: चित्र देखकर कहानी लिखें

दिन 26: एकवचन-बहुवचन

दिन 27: MDP (Topic)

दिन 28: फिल्म देखकर प्रश्नों के उत्तर लिखें

ODIA

୧. ପ୍ରତିଦିନ ୧ ପୃଷ୍ଠା ସୁନ୍ଦର ହସ୍ତାକ୍ଷର ଲେଖିବ ।

୨. ଶ୍ରୀ ରତ୍ନ, ଆଦର୍ଶ ଛାତ୍ର ଜୀବନ, ବୃକ୍ଷ୍ୟରୋପଣ, ପ୍ରିୟ ଖେଳ, ତୁମ ଜୀବନର ଲକ୍ଷ୍ୟ, ପରିବେଶ ସୁରକ୍ଷା ସମ୍ପର୍କରେ ପ୍ରବନ୍ଧ ଲେଖା

୩. ଗ୍ରୀଷ୍ମଋତୁ କିପରି କଟାଇଲ ବର୍ଣ୍ଣନା କରି ବନ୍ଧୁ ନିକଟକୁ ପତ୍ର ଲେଖ, ଅଂଶୁଘାତରୁ ରକ୍ଷା ପାଇବା ପାଇଁ କି ବ୍ୟବସ୍ଥା କରିବା ସେ ବିଷୟରେ ସୂଚନା ଦେଇ ସନ ଭଉଣୀଙ୍କ ନିକଟକୁ ପତ୍ର ଲେଖ, ବିଦ୍ୟୁତକାର୍ ର ପ୍ରତିକାର ନିମନ୍ତେ ବିଦ୍ୟୁତ ବିଭାଗୀୟ ଅଧିକାରୀଙ୍କ ନିକଟକୁ ଦରଖାସ୍ତ ଲେଖ ।

୪. ପ୍ରତିଦିନ ଗୋଟେ ଗଳ୍ପ ପଢ଼ିବ ।

୫. ଗ୍ରୀଷ୍ମଋତୁର ଅନୁଭୂତିକୁ ଆଧାର କରି ଗୋଟେ କବିତା ଲେଖିବ ।

SCIENCE

Short Questions

Question 1.

What is the role of Lactobacillus in curd formation?

Question 2.

Why do farmers grow legumes in rotation with other crops?

Question 3.

How does yeast make dough soft and fluffy?

Question 4.

What do you observe when a bread slice is kept in a moist, warm place for 3 days? Why?

Question 5.

What is the purpose of using lime water in the yeast experiment?

Long Question Answer

Question 1.

Explain the role of microorganisms in the nitrogen cycle, about Rhizobium, and soil fertility.

Describe the fermentation process using yeast and explain its importance in daily life, including experimental evidence.

Question 3.

Compare and contrast unicellular and multicellular microorganisms with examples and structural differences.

Question 4.

How do environmental factors affect microbial growth? Discuss with the help of bread mould and curd formation examples.

Question 5.

Discuss the role of micro-organisms in sustainable development, including food, fuel, and waste management.

Case Based Questions

Question 1.

In a school laboratory experiment based on the textbook, three test tubes were prepared:



- Test Tube A contained only sugar solution and water.
- Test Tube B contained sugar solution, water, and a pinch of yeast.
- Test Tube C contained yeast and water only.

All three test tubes were sealed with balloons on top and left undisturbed for 2 days. After the observation period, the balloon on Test Tube B was inflated. When the gas collected from this tube was passed into lime water, it turned milky.

- (a) What gas caused the balloon on Test Tube B to inflate?
- (b) Why was there no balloon inflation in Test Tube A and Test Tube C?
- (c) What chemical reaction caused lime water to turn milky?
- (d) What is the process called in which yeast converts sugar into alcohol and carbon dioxide?
- (e) What conclusion can you draw about the role of sugar in this experiment?

Question 2.

A farmer decides to stop using chemical fertilizers and instead uses a compost pit made from kitchen waste, vegetable peels, and dry leaves. He also starts planting leguminous crops such as gram and beans between cereal crop seasons. Over time, he notices improved soil fertility and better plant growth.



- (a) Which types of microorganisms are responsible for breaking down kitchen waste in the compost pit?
- (b) Why is it important to add both dry and wet waste to the compost pit?
- (c) Which specific microorganism helps leguminous plants fix nitrogen in the soil?

- (d) How does growing leguminous crops reduce the need for chemical fertilizers?
(e) What environmental benefit does composting offer over using synthetic fertilizers?

Extra Questions

Question 1.

How do viruses differ from other microorganisms, such as bacteria?

Question 2.

Write the name of a microorganism that is multicellular.

Question 3.

Which microorganism lives alone?

Question 4.

Which microorganism is utilized in making curd from milk?

Question 5.

What do you mean by fermentation?

Question 6.

What are pathogens?

Question 7.

What are microorganisms?

Question 8.

Name two types of microorganisms.

Question 9.

How are microorganisms important to us?

Question 10.

What is the difference between luminous and non-luminous objects?

Question 11.

Explain why we cannot see most cells with our naked eye.

Question 12.

Explain the role of microorganisms in the environment.

Question 13.

Describe the different ways in which microorganisms can be harmful.

Question 14.

Discuss the importance of studying microorganisms.

Question 15.

How does light make objects visible to us?

Question 16.

Explain the difference between viruses and bacteria.

Question 17.

If a farmer avoids using chemical fertilizers and instead grows legume crops repeatedly, what long-term benefits and risks might this have on soil health and crop yield? Explain using microbial interactions.

Question 18.

In the yeast-lime water experiment, what would you conclude if the lime water does not turn milky, even though the balloon inflates? Suggest possible reasons and corrections.

MATHS

1. Basic Practice (Daily)

Write and learn tables 1 to 25

Write squares 1 to 25

Write cubes 1 to 15

2. Number Practice

Solve 20 questions based on:

Addition

Subtraction

Multiplication

Division

(Practice at least 5 questions of each daily)

3. Fractions & Decimals

Solve the following:

$$1/2 + 3/4$$

$$5/6 - 1/3$$

$$2/3 \times 3/5$$

$$4/5 \div 2/3$$

4. Geometry (Basic Drawing)

Draw neatly:

Line, Line Segment, Ray

Types of Angles (Acute, Right, Obtuse)

Triangle and Square

SST

➤ Very Short Answer Question-

1. What are natural resources? Give two examples of natural resources.
2. What are renewable resources and non-renewable resources?
3. Name two fossil fuels and two minerals.
4. What is the main source of energy on Earth?
5. What is soil used for?
6. What is conservation?

➤ Long Answer Questions

1. Explain the importance of natural resources in our life.
2. Explain how deforestation affects environment.
3. Why should we conserve natural resources? Explain with examples.

➤ Write a Report-

Topic: Water Conservation in My Home

Include:

- How water is wasted
- Steps taken to save water
- Suggestions for better conservation

➤ Make this table in your notebook:

Natural Resource	Uses
Water	Drinking, irrigation, industries, hydropower
Forest	Timber, medicines, paper, oxygen
Soil	Farming, construction, plants growth

Natural Resource	Uses
Air	Breathing, wind energy, combustion
Minerals	Machines, buildings, tools, jewellery
Coal	Electricity, industries, fuel
Petroleum	Transport fuel, plastics, chemicals
Sunlight	Solar energy, photosynthesis, warmth
Wildlife	Ecological balance, food, tourism

➤ Activity work-Poster Making

Make a poster on:

“Save Natural Resources”

Write slogans like:

- Save Water, Save Life
- Plant Trees, Save Earth
- Reduce, Reuse, Recycle

MUSIC

Vocal:

- Practise Alankaras of 3-3 notes
- Prepare 1 folk song, 1 patriotic song & 1 Bollywood song

Dance:

- Prepare 1 folk dance & 1 tribal dance

ART EDUCATION

ART

- Do any one activity in sketch file: “Plastic Mukt Bharat” OR “Save Water, Save Life”.
- Make a Madhubani painting.
- Draw a village scene/landscape and do pencil shading.
- Read Chapters 1 & 2 (Kriti).

CRAFT

a) Make a beautiful hanging from waste material. (Tribal based)

PHYSICAL EDUCATION

Introduction (Origin)

Rules, skills, and techniques of football, kho- kho, Cricket, Handball

CLASS – IX

SUBJECT: ENGLISH

Section A: Grammar

1. Error Correction

Correct the errors:

She don't like music. _____

He have done his homework. _____

They was playing outside. _____

Section B: Writing Skills

1. Diary Entry


Write a diary entry about a memorable day of your holidays. (80–100 words)

2. Letter Writing


Write a letter to the editor on: "Importance of Clean Surroundings" (100–120 words)

Section C: Activity - Poster Making

Make a poster on: "Say No to Plastic"

 Section D: Vocabulary

Write meanings of any 5 new words you learned during holidays. Make one sentence with each word.

 General Instructions

- Do the work in your English notebook.
- Maintain neat and clean handwriting.
- Write with proper headings and margins.
- Check spelling and grammar.
- Submit on time.

HINDI

नोट: 1. प्रतिदिन एक पृष्ठ लिखना है।

2. प्रतिदिन एक पृष्ठ पढ़ना है।

1. प्रेमचंद का जीवन परिचय।

2. पद्मलाल पुत्रालाल बख्शी का जीवन परिचय।

3. संज्ञा की परिभाषा तथा भेद।

4. सर्वनाम की परिभाषा तथा भेद।

5. विशेषण की परिभाषा तथा भेद।

6. संधि : स्वर संधि के भेद।

7. रैदास का जीवन परिचय।

8. तुलसीदास का जीवन परिचय।

9. समास की परिभाषा तथा भेद।

ODIA

୧.ବନ୍ଦେ ଉତ୍କଳ ଜନନୀ କବିତାର ଅଭ୍ୟାସ କାର୍ଯ୍ୟ ଲେଖିବ ।

୨.ପ୍ରତିଦିନ ୧ ପୃଷ୍ଠା ସୁନ୍ଦର ହସ୍ତାକ୍ଷର ଲେଖିବ ।

୩. ଗ୍ରୀଷ୍ମ ଋତୁର ଅନୁଭୂତିକୁ ଆଧାର କରି ଗୋଟେ କବିତା ଲେଖିବ ।

୪. ଅଂଶୁଘାତ ଓ ତାର ପ୍ରତିକାର, ଇ- ଶିକାର ଗୁରୁତ୍ୱ, ଦୁର୍ନୀତି ଓ ଏହାର ନିବାରଣ,ମାତୃଭାଷାର ଗୁରୁତ୍ୱ , ଗଣତନ୍ତ୍ରର ସୁରକ୍ଷା - ସମ୍ପର୍କରେ ପ୍ରବନ୍ଧ ଲେଖିବ ।

୫.ପ୍ରତିଦିନ ଜଣେ ଓଡ଼ିଆ ସାହିତ୍ୟର ଲେଖକଙ୍କ ଗଳ୍ପ ପଢ଼ିବ ।

୬.ଗ୍ରୀଷ୍ମ ଋତି କିପରି ବିତାଇଲ ବର୍ଣ୍ଣନା କରି ବନ୍ଧୁ ନିକଟକୁ ପତ୍ର ଲେଖି ।

SCIENCE

1. Draw a Mind Map of Is matter around us Pure? on a white sheet of paper.

2. Draw and label:

- a. Plant cell
- b. Animal cell
- c. Endoplasmic reticulum
- d. Mitochondria
- e. Golgi Apparatus
- f. Chloroplast

3. Write about Hypotonic, Hypertonic and Isotonic solutions and list at least two examples of each solution from your surroundings.

4.How are colloids, solution and suspension different from each other

5. Differentiate between homogeneous and heterogeneous mixture with examples.

6. Write any two separation technique methods with a proper diagram.

7. Write an essay on “Animal Husbandry” in 200 words.

8. What are chromosomes made up of? How are chromatin, chromatid and chromosomes related to each other?

Enjoy your summer holiday and keep yourself hydrated ☐☐

MATHS

Plot any 20 coordinates on the Cartesian plane.

Write and learn tables from 1 to 25.

Write and learn squares from 1 to 25 and cubes from 1 to 15.

Write and Learn All Formulas (Previous Classes)

SST

All students are hereby informed that the following Holiday Homework has been assigned. Students must complete the work neatly after the reopening of the school i.e on 5th June,2026.

Class IX

- Draw and label a Map of Odisha showing important districts and major physical features.
- Draw and label a Map of India highlighting states and capitals.
- Prepare a World Map indicating continents and oceans.

Instructions:

- Use proper colours and neat labeling.
- Maintain accuracy and presentation.

MUSIC

Theory:

- Write 1 sheet about your tribe

Practical:

Vocal:

- Prepare a Bhajan

Dance:

- Prepare 1 folk dance, 1 tribal dance & 1 patriotic dance

ART EDUCATION

ART

(a) Draw & colour poster: "My Dream World" OR "My Best Memorable Moment".

(b) Draw anything and colour (Nature/Festival).

(c) Poster on "मातृभाषा हिन्दी – हमारी पहचान".

CRAFT

a) Make best out of waste material

CLASS- X

ENGLISH

SECTION: A

1. Answer the following questions: (write and learn)

- i. What did Lencho hope for?
- ii. Why did Lencho say the raindrops were like 'new coins'?
- iii. How did the rain change? What happened to Lencho's fields?
- iv. What were Lencho's feelings when the hail stopped?
- v. Who or what did Lencho have faith in? What did he do?
- vi. What did the postmaster do after reading a letter?
- vii. Was Lencho surprised to find a letter for him with money in it?
- viii. Who does Lencho have complete faith in? Which sentences in the story tell you this?
- ix. Why does the postmaster send money to Lencho? Why does he sign the letter God?
- x. Did Lencho try to find out who had sent the money to him? Why or why not?
- xi. Who does Lencho think has taken the rest of the money? What is the irony in the situation?
- xii. Why is Mrs Pumphrey worried about Tricki?
- xiii. What does she do to help him? Is she wise in this?
- xiv. Is the narrator as rich as Tricki's mistress?
- xv. How does he treat the dog?
- xvi. Why does Mrs Pumphrey think the dog's recovery is 'a triumph of surgery'?

2. Solve the following questions:

- i. Fill in the blank by choosing the correct option to complete the online update.
By the next month, we shall _____ the project.
(A) has completed
(B) completing
(C) completed
(D) have completed

ii. Read the conversation between a traveller and a peasant. Then complete the following in the reported speech.

Traveller : Can you tell me the way to the nearest inn?

Peasant : You must go to the Aheli inn.

The traveller asked the peasant if he could tell him the way to the nearest inn to which the peasant suggested him _____.

iii. Select the option to fill in the blank for the given line.

He is our colleague. We _____ invite him.

(A) can (B) must

(C) dare to (D) will

iv. Select the option that identifies the error and supplies the correction for the following line, from a news report:

The State police have launched a special drive against tractors and trolleys which created chaos in residential areas these days.

Option No. Error Correction

(A) Against For

(B) Have Has

(C) Tractors Has

(D) These This

v. Complete the given narrative by filling in the blank with the correct option.

I _____ this book since morning.

(A) had been reading

(B) has been reading

(C) have had read

(D) shall be reading

vi. Fill in the blank by using the correct form of the word in the bracket, for the given portion of a letter:

Subject: Request for leave to attend cousin's marriage

Respected Sir/Madam

I am a student in your prestigious institution. I respectfully beg that you _____

(grant) me a five-day leave of absence to attend my cousin's wedding.

vii. Report the dialogue between a merchant and his servant by completing the sentence:

Merchant : Do you really want any work?

Servant : Yes, if you have any.

The merchant asked the servant if he really wanted any work to which the servant replied _____.

viii. Identify the error in the given sentence from a school magazine report and supply the correction.

It was the amazing sight to see, a sight which no one could help admiring in spite of the trouble it has caused us all.

Error Correction

ix. Lata shared some information with John about a visit to a hill station. Report John's question.

How was your experience with the snow?

x. Identify the error in the given conversation and supply the correction.

Whose bag is this?

I am not sure. It must be Ann's.

Use the given format for your response.

Error Correction

xi. Select the correct option to complete the narration of the dialogue between Neha and Priya.

Neha : Tomorrow is your birthday, what do you want as a gift?

Priya : That is a lovely thought but I don't want anything.

Neha asked Priya what gift she wanted for her birthday the next day. Priya replied

_____.

(A) I don't want anything.

(B) it is a lovely thought but she didn't want anything.

(C) that it was a lovely thought but she did not want anything for her birthday.

(D) that it was a lovely thought but she did not wanted anything for her birthday.

xii Identify the error in the given sentence and supply the correction.

I have met some people in my life but the person who has influenced me the most is

Mother Teresa.

Use the given format for your response.


Error Correction

3. Write an editorial letter to the editor on the rising pollution levels in cities and suggest practical solutions to control it.

4. Write an editorial letter discussing the importance of digital education and its role in shaping the future of students.

5. Write an editorial letter highlighting the harmful effects of excessive plastic usage and the need for eco-friendly alternatives.

SECTION B

 Class X (Section B) – English Holiday Homework

 Section A: Grammar

1. Error Correction

Find and correct the errors:

a) She don't understand the question. _____

- b) He have been working since morning. _____
- c) They was playing in the ground. _____
- d) I did not knew the answer. _____
- e) Riya and Sita is going to market. _____
- f) He don't likes coffee. _____

2. Tense & Editing

Fill in the blanks with correct verb forms:

- a) I _____ (finish) my homework yesterday.
- b) She _____ (go) to school daily.
- c) We _____ (watch) a movie when he arrived.
- d) They _____ (play) football now.
- e) He _____ (live) in Delhi since 2010.
- f) I _____ (see) him last week.

3. Determiners

Fill in the blanks with suitable determiners:

- a) _____ students are present today. (some/any)
- b) I have _____ books to read. (many/much)
- c) There isn't _____ milk in the glass. (some/any)
- d) She has _____ friends in the class. (few/little)
- e) _____ boy in the room is attentive. (each/every)
- f) I need _____ information about the topic. (some/any)

Section B: Writing Skills

1. Editorial Letter

- a) You are Rahul Mishra, a student of DAV Public School, Bhubaneswar. You have noticed that students are becoming less physically active due to busy schedules and sedentary lifestyles. Write a letter to the editor emphasizing the importance of physical fitness and suggesting how schools and parents can encourage healthy habits.
- b) You are Riya Das, a resident of Saheed Nagar, Bhubaneswar. You have observed that the level of air pollution in your city has increased significantly, affecting the health of people. Write a letter to the editor of a national daily expressing your concern. Discuss the possible causes, its harmful effects, and suggest practical measures to control it.
- c) You are Aman Verma, a student of Class X, Kendriya Vidyalaya, Bhubaneswar. You have noticed that students are becoming increasingly dependent on mobile phones and the internet, which is affecting their studies and social life. Write a letter to the editor highlighting this issue. Explain its impact and suggest ways to maintain a healthy balance between technology and real-life activities.

2. Letter of Placing Order

- a) You are Rohit Sharma, the Sports Captain of DAV Public School, Bhubaneswar. Write a letter to M/s National Sports Store, Cuttack, placing an order for sports equipment for your school. In your letter, mention the names of items and their quantity, specify the quality and preferred brands, include details about price and discount, and clearly state the mode of delivery, expected time, and payment terms.
- b) You are Ananya Das, the Librarian of St. Xavier's School, Bhubaneswar. Write a letter to M/s Knowledge World Publishers, New Delhi, placing an order for books for Classes IX and X. In your letter, include the list of books along with the number of copies required, ensure that the latest editions are requested, and mention details regarding discount, proper packaging, and delivery schedule.
- c) You are Sneha Gupta, the Computer Lab In-charge of Kendriya Vidyalaya, Bhubaneswar. Write a letter to M/s TechWorld Computers, Hyderabad, placing an order for computers and related accessories. In your letter, mention specifications, number of units, warranty, installation, and delivery details.

Section C: Vocabulary

1. Word Meanings: Write meanings of any 8 new words.
2. Sentence Making: Make one sentence with each word.

General Instructions

- Do the work in your English notebook.
- Maintain neat and clean handwriting.
- Write with proper headings and margins.
- Check spelling and grammar.
- Submit on time.

ODIA

SECTION:A

୧. ନିମ୍ନଲିଖିତ ସମସ୍ତ ବିଷୟ ଉପରେ ଉଚିତ ଭାବରେ ଲେଖି ଆଣିବ ।

i) ରଥଯାତ୍ରା

ii) ଆମ ସଂସ୍କୃତି ଓ ପର୍ବପର୍ବାଣୀ

iii) ପୁସ୍ତକ ଓ ପୁସ୍ତକମେଳା

iv) ସମ୍ବାଦ ପତ୍ରର ଉପଯୋଗିତା

v) ନାରୀ ଶିକ୍ଷା

୨. ତୁମ ବିଦ୍ୟାଳୟରେ ବାର୍ଷିକ ଉତ୍ସବ କେମିତି ପାଳିତ ହେଲା ବର୍ଣ୍ଣନା କରି ବନ୍ଧୁ ନିକଟକୁ ପତ୍ର ଲେଖ ।

୩. ନିମ୍ନ ଲିଖିତ ଛନ୍ଦର ଲକ୍ଷଣ, ଯତିପାତ ଓ ଉଦାହରଣ ସହ ବୁଝାଇ ଲେଖ ।

i) ଗୁଞ୍ଜରୀ/ଭାଗବତବାଣୀ

ii) ନଟବାଣୀ

iii) ବଙ୍ଗଳାଶ୍ରୀ

iv) ରାମକେରୀ

୪. ଯେକୌଣସି ୨୦୦ଗୋଟି ବୁଢ଼ିର ଅର୍ଥ ଲେଖୁ ଆଣିବ ।

୫. ଯେକୌଣସି ୨୦୦ଗୋଟିର ଭ୍ରମସଂଶୋଧନ ଲେଖୁ ଆଣିବ ।

SCIENCE

Attend one answer daily and learn each answer every day.

1. A student took a small amount of copper oxide in a conical flask and added dilute hydrochloric acid to it with constant stirring. He observed a change in colour of the solution.

(i) Write the name of the compound formed and its colour.

(ii) Write a balanced chemical equation for the reaction involved.

2. While electrolysis of water before passing the current some drops of an acid are added. Why? Name the gases liberated at cathode and anode. Write the relationship between the volume of gas collected at anode and the volume of gas collected at cathode.
3. What is observed when silver chloride is exposed to sunlight? Give the type of reaction involved
4. Decomposition reactions require energy either in the form of heat or light or electricity for breaking down the reactants. Write one equation each for decomposition reactions where energy is supplied in the form of heat, light and electricity.
5. A metal 'X' acquires a green colour coating on its surface on exposure to air.
- Identify the metal 'X' and name the process involved in it.
 - Name and write chemical formula of the green coating formed.
 - List two important methods to prevent the process.
6. When potassium iodide solution is added to a solution of lead (II) nitrate in a test tube, a precipitate is formed.
- What is the colour of this precipitate? Name the compound precipitated.
 - Write the balanced chemical equation for this reaction.
 - List two types of reactions in which this reaction can be placed.
7. A metal nitrate A on heating gives a metal oxide along with evolution of a brown coloured gas B and a colourless gas, which helps in burning. Aqueous solution of A when reacted with potassium iodide forms a yellow precipitate.
- Identify A and B.
 - Name the types of both the reactions involved in the above statement.
8. A metal X generally turns black when kept in open for several days. The metal when rubbed with toothpaste again starts shining.
- Identify the metal X.
 - Why does the metal X turn black. Name the phenomenon involved.
 - Name the black substance formed and write its formula.

9. A yellowish coloured compound X is a photosensitive material. On exposure to sunlight, it gives a greyish substance Y and brown fumes of a gas Z. Identify X, Y and Z. How will you obtain X from the nitrate salt of Y?

10. Silver chloride kept in a china dish turns grey in sunlight.

(i) Write the colour of silver chloride when it was kept in the china dish.

(ii) Name the type of chemical reaction taking place and write the chemical equation for the reaction.

(iii) State one use of the reaction. Name one more chemical which can be used for the same purpose.

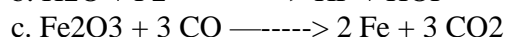
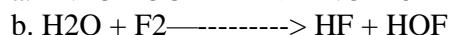
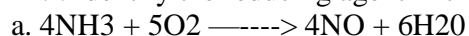
11.(I) Define a double displacement reaction.

(ii) Write the chemical equation of a double displacement reaction which is also

(a) Neutralisation reaction

(b) Precipitation reaction. Give justification of your answer.

12.I. Identify the reducing agent in the following reactions.



II. Define redox reaction in terms of gain or loss of oxygen.

13. Although 'Pepsin' and 'Trypsin' are both protein digesting enzymes yet they differ from each other. Justify the statement by giving one difference between them.

14. List the events in proper sequences that take place during the process of photosynthesis.

15. Give the name of enzyme present in the fluid in our mouth cavity. State the gland which produces it. What would happen to the digestion process if this gland stop secreting this enzyme?

16. Name the site of complete digestion in the human body and write the name of the end products formed of

(i) Carbohydrates

(ii) Fats

(iii) Proteins

17. Write one important function each of the following in the human respiratory system.

a. Rings of cartilage

b. Alveoli

c. Haemoglobin

d. Lining of mucus

18. Write the two different ways in which glucose is oxidised to provide energy in human body. Write the products formed in each case.

19. Write the sequence of events that involve response of a person when a dust is inhaled through nose by him.

20. Rate of breathing in aquatic organisms is much faster than the terrestrial organisms. Give reasons.

21. Name the type of blood (Oxygenated/deoxygenated) transport by each of the following mentioning the path. (i) Vena cava (ii) Pulmonary artery

22. How is Oxygen and carbon dioxide transported in human beings?
23. Which organisms have a three chambered heart? Why do they have three chambered heart?
24. We water the soil, but it reaches the topmost leaves of the plants. Explain in brief the process involved.
25. List four functions of the human heart. Why is double circulation necessary in the human body?
26. Name three kinds of blood vessels of the human circulatory system and write a function of each in a tabular form.
27. Write two conducting tissues present in plants. How does water enter continuously into the root xylem?
- Explain why plants have low energy needs as compared to animals.
28. What is transpiration? List its two functions.
29. What is translocation? Why it is essential for plants? Where do the substances in plants reach as a result of translocation?
30. Draw and label the parts of
- Human digestive system
 - Human respiratory system
 - Human Heart
 - Human excretory system

Enjoy your summer holiday and keep yourself hydrated☐☐☐

MATHS

Chapter 1: Real Numbers (Complete)

Write all definitions and properties.

Solve all examples.

Practice important questions (HCF & LCM).

Chapter 2: Polynomials (Factorisation Method)

Solve the following questions by factorisation:

$$x^2 + 5x + 6 = 0$$

$$x^2 + 7x + 10 = 0$$

$$x^2 - 5x + 6 = 0$$

$$x^2 - 7x + 12 = 0$$

$$x^2 + 9x + 20 = 0$$

$$x^2 - 9x + 20 = 0$$

$$x^2 + 4x - 5 = 0$$

$$x^2 - x - 6 = 0$$

$$x^2 + 3x - 10 = 0$$

$$x^2 - 4x - 5 = 0$$

Write and Learn All Formulas (Previous Classes)

SST

Class X

Prepare detailed notes on:

- History – Chapter 1
- Geography – Chapter 1

Instructions:

- Notes should be handwritten.
- Include key points, headings, and important terms.
- Maintain proper presentation and clarity

Note:

Incomplete or poorly maintained work will not be accepted.

ART EDUCATION

ART

(a) Make one tribal art (Saura Art) on A4/A3 sheet.

(b) Draw & colour poster: Teacher's Day OR Independence Day.

CRAFT

Make best out of waste material based on tribal art and craft

MUSIC

Theory:

- Write 1 sheet about Odissi dance form

Practical:

Vocal:

- Prepare a Bhajan and folk song

Dance:

- Prepare 1 folk dance, 1 tribal dance & 1 patriotic dance

CLASS- XI(SCIENCE)

ENGLISH

Instructions:

- **Do all work in a separate notebook/project file**
- **Maintain neat handwriting and proper format**

SECTION A: LITERATURE (Hornbill + Snapshots)

Prepare the following for each chapter/poem:

Introduction (Name of the chapter/poem & author/poet)

Summary

Theme

Character Sketch (for prose only)

Poetic Devices (for poems)

Prose Chapters (5)

1. The Portrait of a Lady
2. We're Not Afraid to Die... if We Can All Be Together
3. Discovering Tut: The Saga Continues
4. The Summer of the Beautiful White Horse

5. The Address

Poems (2)

6. A Photograph

7. The Laburnum Top

Additional Task: Biography Reading

Read the biography of any ONE of the following personalities:

- **Rabindranath Tagore**
- **Ruskin Bond**
- **A.P.J. Abdul Kalam**

Write the following (150–200 words):

Early life

Major works/achievements

Contribution to society/literature

What you learned from their life

SECTION B: WRITING SKILLS

1. Notice Writing (50 words)

Write notices on:

Lost and Found

School Cultural Event

2. Formal Letter Writing (120–150 words)

a) Letter to the Editor

Rising pollution in your city

b) Complaint Letter

Complaint about irregular water supply

3. Poster Making

Design posters on:

Save Environment

Anti-Plastic Campaign

4. Classified Advertisement

Write advertisements on:

To Let

Situation Vacant

Lost and Found

SECTION C: GRAMMAR

Practice the following topics (write at least 15 examples each):

1. Tenses

2. Active and Passive Voice

3. Direct and Indirect Speech

4. Subject-Verb Agreement

5. Transformation of Sentences

(Assertive, Interrogative, Exclamatory, Imperative)

ODIA

୧. ନିମ୍ନଲିଖିତ ସମସ୍ତ ବିଷୟ ଉପରେ ରଚନା ଲେଖି ଆଣିବ ।

i) ଅଂଶୁଘାତ ଓ ତା'ର ପ୍ରତିକାର

ii) ନାରୀ ସଶକ୍ତିକରଣ

iii) ଆତ୍ମଜାତୀୟ ମହିଳା ଦିବସ

iv) ସମ୍ବାଦପତ୍ରର ଉପଯୋଗିତା

v) ଓଡ଼ିଶାର ପର୍ଯ୍ୟଟନସ୍ଥଳୀ

୨. ତୁମ ବିଦ୍ୟାଳୟରେ ବାର୍ଷିକ ଉତ୍ସବ କେମିତି ପାଳିତ ହେଲା ବର୍ଣ୍ଣନା କରି ବନ୍ଧୁ ନିକଟକୁ ପତ୍ର ଲେଖ ।

୩. ଯେକୌଣସି ୨୦୦ଗୋଟି ରୂଢ଼ିର ଅର୍ଥ ଲେଖୁ ଆଣିବ ।

୪. ଯେକୌଣସି ୨୦୦ଗୋଟିର ଭ୍ରମସଂଶୋଧନ ଲେଖୁ ଆଣିବ ।

୫. ଯେକୌଣସି ୨୦୦ଗୋଟିର ପ୍ରତିଶବ୍ଦ ଲେଖୁ ଆଣିବ ।

PHYSICS

1-Mark Questions

1. What is the SI unit of resistance?
2. Name the device used to measure electric current.
3. What is the direction of magnetic field lines?
4. Which mirror is used in headlights of vehicles?
5. What is the function of retina in the eye?

2-Mark Questions

6. State Ohm's Law with formula.
7. What is a solenoid? Write two properties.
8. Define magnification in mirrors.
9. What is power of a lens? Write its unit.
10. What is myopia?

How is it corrected?

What is a physical quantity?

Define SI unit.

What is the SI unit of force?

Write the dimensional formula of velocity.

What is a derived quantity?

CHEMISTRY

- 1) Define matter.**
- 2) What is the SI unit of mass?**
- 3) What is a molecule?**
- 4) Define atom.**
- 5) Explain Bohr atomic model?**
- 6) Explain Dalton atomic theory?**
- 7) Explain Rutherford model of atom?**
- 8) write down the name and symbols of elements from 1 to 30?**
- 9) Draw the structure of ethane , ethene, pentene, butyne, methane, propene?**
- 10) write the difference between metal and nonmetals?**

BIOLOGY

Question 1: Mention the raw materials required for photosynthesis.

Question 2: What would be the consequences of deficiency of haemoglobin in your body?

Question 3: Name the green dot like structures in some cells observed by a student when a leaf peel was viewed under a microscope. What is this green colour due to?

Question 4: State any one difference between autotrophic and heterotrophic modes of nutrition.

Question 5: Give one reason why multicellular organisms require special organs for exchange of gases between their body and their environment.

Question 6: Name the process in plants where water is lost as water vapour. :

Question 7: What is translocation in plants?

Question 8: State the basic difference between the process of respiration and photosynthesis.

Question 9: In the experiment “Light is essential for photosynthesis”, why does the uncovered part of the leaf turn blue-black after putting iodine solution?

Question 10: Name the component of blood that helps in the formation of blood clot in the event of a cut.

Question 11: Mention how organisms like bread moulds and mushrooms obtain their food.

Question 12: What will happen to a plant if its xylem is removed?

Question 13: Where does digestion of fat take place in our body?

Question 14: What is the mode of nutrition in human beings?

Question 15: What are enzymes? Name any one enzyme of our digestive system and write its function.

Question 16: (i) Write the balanced chemical equation for the process of photosynthesis,

(ii) When do the desert plants take up carbon dioxide and perform photosynthesis?

Question 17: Why do herbivores have longer, small intestine than carnivores?

Question 18: Why do the walls of the trachea not collapse when there is less air in it?

Question 19: What are the final products after digestion of carbohydrates and proteins?

Question 20: What is saliva? State its role in the digestion of food.

Question 21: Explain the process of nutrition in Amoeba.

Question 22: State differences between arteries and veins.

Question 23: How are the alveoli designed to maximise the exchange of gases?

Question 24: Name two excretory products other than O_2 and CO_2 in plants.

Question 25: In single celled organisms diffusion is sufficient to meet all their requirements of food, exchange of gases or removal of wastes but it is not in case of multicellular organisms. Explain the reason for this difference.

Question 27: Name the acid presents in the following:

(i) Tomato (ii) Vinegar (iii) Tamarind

Question 28: State the role of the following in human digestive system:

(i) Digestive enzymes (ii) Hydrochloric acid (iii) Villi

Question 29: In mammals and birds why is it necessary to separate oxygenated and de-oxygenated blood?

Question 30: Draw a diagram of human respiratory system and label it.

Question 31: (a) Name the site of exchange of material between the blood and surrounding cells.

(b) Draw a schematic representation of transport and exchange of oxygen and carbon dioxide in human body.

Question 32: List three characteristics of lungs which make it an efficient respiratory surface.

Question 33: (a) What is the role of HCl in our stomach?

(b) What is emulsification of fats?

(c) Which protein digesting enzyme is present in pancreatic juice?

Question 34: In human alimentary canal, name the site of complete digestion of various components of food. Explain the process of digestion.

Question 35: (a) "The breathing cycle is rhythmic whereas exchange of gases is a continuous process". Justify this statement.

(b) What happens if conducting tubes of circulatory system develops a leak? State in brief, how could this be avoided?

(c) How opening and closing of stomata takes place?

Question 36: Describe in brief the function of kidneys, ureters, urinary bladder and urethra.

Question 37: Explain the process of breakdown of glucose in a cell (ii) in the absence of

Question 38: (a) Explain how does the exchange of gases occur in plants across the surface of stems, roots and leaves.

(b) How are water and minerals transported in plants?

Question 39: State in brief the function of:

1. renal artery

2. kidney

3. ureter

4. urinary bladder

Question 40: How is urine produced and eliminated?

Question 41: (a) Draw a diagram to show open stomatal pore and label on it:

(i) guard cells

(ii) chloroplast

(b) State two functions of stomata.

Question 42: Why is the rate of breathing in aquatic organisms much faster than in terrestrial organisms?

MATHS

FUNDAMENTALS OF MATHEMATICS – QUESTIONS

Class: 11

Section A: Very Short Answer (1 mark)

- 1 Define natural numbers.
- 2 What is an irrational number?
- 3 Write the value of i^2 .
- 4 What is a set?
- 5 Define a function.
- 6 What is zero? Is it natural?
- 7 Write the smallest prime number.
- 8 Define even numbers.
- 9 What is absolute value?
- 10 Define real numbers.

Section B: Short Answer (2 marks)

- 1 Write all subsets of $\{1, 2\}$.
- 2 Find LCM of 12 and 18.
- 3 Check whether $\sqrt{2}$ is rational or irrational.
- 4 Solve: $x + 5 = 10$
- 5 Find value of $|-7|$
- 6 Write properties of equality.
- 7 Define whole numbers with example.
- 8 Find HCF of 24 and 36.

9 Simplify: $(a+b)^2$

10 Find reciprocal of $5/7$.

Section C: Medium Answer (3 marks)

1 Prove that $\sqrt{3}$ is irrational.

2 Find all factors of 36.

3 Solve: $2x + 3 = 11$

4 Simplify: $(a-b)^2$

5 Find value of $3^3 \times 3^2$

6 Express 0.333... in fraction form.

7 Find cube root of 64.

8 Solve inequality: $x - 2 > 3$

Section D: Long Answer (5 marks)

1 Explain number system with classification.

2 Prove identity: $(a+b)^2 = a^2 + b^2 + 2ab$

3 Solve quadratic equation: $x^2 - 5x + 6 = 0$

4 Explain properties of real numbers.

5 Solve simultaneous equations: $x + y = 10$, $x - y = 2$

HOTS Questions

1 Is zero a positive number? Explain.

2 Can a number be both rational and irrational?

3 Why is division by zero undefined?

4 Find a number whose square is 49 but is not 7.

5 If $a+b = 10$ and $ab = 21$, find a and b.

Practice Challenge

1 Find next number: 2, 6, 12, 20, ____

2 If a number is divisible by 2 and 3, what can you say about it?

ART EDUCATION

ART

a) Draw and colour beautiful any tribal art on A4 size thick sheet.

b) Draw and color any best memorable moment of your life.

CRAFT

Make any best out of waste material based on tribal art and craft.

CLASS XI(HUMANITIES)

ENGLISH

Instructions:

- Do all work in a separate notebook/project file
- Maintain neat handwriting and proper format

SECTION A: LITERATURE (Hornbill + Snapshots)

Prepare the following for each chapter/poem:

Introduction (Name of the chapter/poem & author/poet)

Summary

Theme

Character Sketch (for prose only)

Poetic Devices (for poems)

Prose Chapters (5)

1. The Portrait of a Lady
2. We're Not Afraid to Die... if We Can All Be Together
3. Discovering Tut: The Saga Continues
4. The Summer of the Beautiful White Horse
5. The Address

Poems (2)

6. A Photograph
7. The Laburnum Top

Additional Task: Biography Reading

Read the biography of any ONE of the following personalities:

- Rabindranath Tagore
- Ruskin Bond
- A.P.J. Abdul Kalam

Write the following (150–200 words):

Early life

Major works/achievements

Contribution to society/literature

What you learned from their life

SECTION B: WRITING SKILLS

1. Notice Writing (50 words)

Write notices on:

Lost and Found

School Cultural Event

2. Formal Letter Writing (120–150 words)

a) Letter to the Editor

Rising pollution in your city

b) Complaint Letter

Complaint about irregular water supply

3. Poster Making

Design posters on:

Save Environment

Anti-Plastic Campaign

4. Classified Advertisement

Write advertisements on:

To Let

Situation Vacant

Lost and Found

SECTION C: GRAMMAR

Practice the following topics (write at least 15 examples each):

1. Tenses

2. Active and Passive Voice

3. Direct and Indirect Speech

4. Subject-Verb Agreement

5. Transformation of Sentences

(Assertive, Interrogative, Exclamatory, Imperative)

ODIA

୧. ନିମ୍ନଲିଖିତ ସମସ୍ତ ବିଷୟ ଉପରେ ରଚନା ଲେଖି ଆଣିବ ।

i) ଅଂଶୁଘାତ ଓ ତା'ର ପ୍ରତିକାର

ii) ନାରୀ ସଶକ୍ତିକରଣ

iii) ଆନ୍ତର୍ଜାତୀୟ ମହିଳା ଦିବସ

iv) ସମ୍ବାଦପତ୍ରର ଉପଯୋଗିତା

v) ଓଡ଼ିଶାର ପର୍ଯ୍ୟଟନସ୍ଥଳୀ

୨. ତୁମ ବିଦ୍ୟାଳୟରେ ବାର୍ଷିକ ଉତ୍ସବ କେମିତି ପାଳିତ ହେଲା ବର୍ଣ୍ଣନା କରି ବନ୍ଧୁ ନିକଟକୁ ପତ୍ର ଲେଖ ।

୩. ଯେକୌଣସି ୨୦୦ଗୋଟି ରୁଢ଼ିର ଅର୍ଥ ଲେଖି ଆଣିବ ।

୪. ଯେକୌଣସି ୨୦୦ଗୋଟିର ଭ୍ରମସଂଶୋଧନ ଲେଖି ଆଣିବ ।

୫. ଯେକୌଣସି ୨୦୦ଗୋଟିର ପ୍ରତିଶବ୍ଦ ଲେଖି ଆଣିବ ।

ART EDUCATION

ART

- a) Draw and colour beautiful any tribal art on A4 size thick sheet.
- b) Draw and color any best memorable moment of your life.

CRAFT

Make any best out of waste material based on tribal art and craft

CLASS XII

ENGLISH

SUMMER VACATION HOME ASSIGNMENT (2026–27)

Class XII – English Core

Instructions:

- Complete all work in a separate notebook/project file.
- Submit the assignment after summer vacation.

SECTION A: READING SKILLS

1. Unseen Passage – Factual

Solve 2 factual passages from previous CBSE sample papers and answer MCQs, vocabulary and comprehension-based questions.

2. Unseen Passage – Case-Based/Discursive

Solve 2 case-based passages and answer all questions.

3. Note Making & Summarizing

Read any article on the following topics and prepare notes with proper headings, sub-headings, abbreviations and summary (80 words):

- Artificial Intelligence in Education
- Global Warming
- Importance of Physical Fitness

SECTION B: CREATIVE WRITING SKILLS

1. Notice Writing (50 words)

Write notices on:

- Lost and Found
- School Cultural Event
- Inter-school Debate Competition

2. Formal Invitation and Reply

Write:

- Invitation for Annual Day Function
- Reply accepting/rejecting invitation

3. Letter Writing (120–150 words)

Letter to the Editor

- Increasing road accidents
- Rising pollution in cities

Letter to Principal

- Request for extra classes
- Permission for educational tour

Complaint Letter

- Poor internet service
- Defective product complaint

4. Article Writing (120–150 words)

Write articles on:

- Importance of Time Management
- Mental Health Awareness
- Role of Technology in Education

5. Report Writing (120–150 words)

Write reports on:

- Annual Sports Day
- Science Exhibition
- Independence Day Celebration

6. Speech Writing (120–150 words)

Write speeches on:

Save Environment

Role of Youth in Nation Building

7. Debate Writing (120–150 words)

Write one debate for the motion and one debate against the motion on any of the following topics.

- Technology makes life Easier.
- Physical fitness is more important than academic success.

8. Poster Writing

Design posters on:

- Save Trees
- Blood Donation Camp

9. Classified Advertisement

Write advertisements on:

(Situation Vacant, To Let, Lost and Found, Sale of Car, Tuition Available)

SECTION C: GRAMMAR PRACTICE

(Tenses, Voice, Direct and Indirect Speech, Subject-Verb Agreement, Modals, Transformation Of Sentences)

SECTION D: LITERATURE

Prepare the following from each chapter:

(Summary, Theme, Character Sketch)

Flamingo

(The Last Lesson, Lost Spring, Deep Water, The Rattrap, Indigo, Poets and Pancakes, My Mother at Sixty-Six, Keeping Quiet, A Thing of Beauty)

Vistas

The Third Level, The Tiger King, Journey to the End of the Earth, Memories of Childhood

ODIA

୧. ନିମ୍ନଲିଖିତ ସମସ୍ତ ବିଷୟ ଉପରେ ରଚନା ଲେଖି ଆଣିବ ।

i) ମରୁଡ଼ି ସମସ୍ୟା ଓ ତା'ର ପ୍ରତିକାର

ii) ଓଡ଼ିଶାର କୃଷି ଓ କୃଷକ

iii) ଆଧୁନିକ ଭାରତର ଶିକ୍ଷା ବ୍ୟବସ୍ଥା

iv) ନାରୀ ସଶକ୍ତିକରଣ

v) ରଥଯାତ୍ରା

୨. ଏକପଦାକରଣ ୧୦୦ ଗୋଟିର ଲେଖି ଆଣିବ ।

୩. ପ୍ରତିଶବ୍ଦ ୧୫୦ ଗୋଟିର ଲେଖି ଆଣିବ ।

୪. ବିପରୀତ ଶବ୍ଦ ୧୦୦ ଗୋଟିର ଲେଖି ଆଣିବ ।

୫. ଭ୍ରମ ସଂଶୋଧନ ଶବ୍ଦ ୧୫୦ ଗୋଟିର ଲେଖି ଆଣିବ ।

୬. ବଣୁଆ ହାତୀ ଆକ୍ରମଣ (ଆତଙ୍କ) ରୁ ଗ୍ରାମବାସୀଙ୍କୁ ରକ୍ଷା କରିବା ଉଦ୍ଦେଶ୍ୟରେ ବନବିଭାଗ କର୍ତ୍ତୃପକ୍ଷକୁ ଆବେଦନ ପତ୍ର

ଲେଖ ।

୭. ଚିକିତ୍ସା ପାଇଁ ଆର୍ଥିକ ସହାୟତା ନିମନ୍ତେ ମୁଖ୍ୟମନ୍ତ୍ରୀଙ୍କ ନିକଟକୁ ଆବେଦନ ପତ୍ର ଲେଖ ।

CHEMISTRY

- 1) what is meant by negative deviation from Raoult's law? Give an example of it? What is the sign of ΔH for negative deviation?
- 2) calculate the freezing point of solution when 31g of ethylene glycol ($C_2H_6O_2$) is dissolved in 500 g of water. (K_f for water is $1.86 \text{ K kg mol}^{-1}$)
- 3) 3.9g of benzoic acid dissolved in 49g of benzene shows a depression in freezing point of 1.62 K . Calculate the vanthoff factor and predict the nature of the solution (association or dissociation)
- Given k_f for benzene = $4.9 \text{ K kg mol}^{-1}$
- 4) On mixing liquid X and liquid Y, volume of the resulting solution decreases. What type of deviation is shown by solution from Raoult's law.
- 5) what happens when we place a blood cell in hypotonic solution?
- 6) A nonvolatile solute X having molar mass 50 g mol^{-1} when dissolved in 78g of benzene reduced its vapour pressure to 90%. Calculate the mass of X dissolved in the solution?
- 7) 1.5 g of a non-electrolyte solute is dissolved in 100 g water.
- Boiling point elevation = 0.25 K , $K_b = 0.5 \text{ K kg mol}^{-1}$.
- Find molar mass.
- 8) 0.5 g of a solute is dissolved in 100 mL solution.
- Osmotic pressure = 2 atm at 300 K . Find molar mass.
- 9) Calculate osmotic pressure of a solution containing 1 mole solute in 1 L solution at 300 K .
- ($R = 0.0821 \text{ L atm mol}^{-1} \text{ K}^{-1}$)
- 10) 1 g of KCl is dissolved in 100 g water. Calculate depression in freezing point.
- ($K_f = 1.86 \text{ K kg mol}^{-1}$, $i = 2$)

PHYSICS

EMRS DHANRABHATA

Class- 12th

Summer Holidays Homework

1Mark Questions (Very Short)

1. Define electric field.

2. Write the SI unit of electric field.

3. What is electric field intensity?

4. Write the formula of electric field due to a point charge.

5. What is electric field line?

6. Define electric dipole.

7. Write the expression of dipole moment.

8. What is the direction of electric field?

9. What is permittivity of free space?

10. Write the principle of superposition.

2. Mark Questions (Short Answer)

11. Define electric field and electric field intensity.

12. Write two properties of electric field lines.

13. What is an electric dipole? Give examples.

14. Derive the expression for electric field due to a point charge (basic form).

15. State Coulomb's law in vector form.

16. What happens to electric field if distance increases?

17. Write two differences between electric field and electric force.

18. What is uniform electric field? Give example.

3. Mark Questions

19. Explain the principle of superposition of electric fields.

20. Derive the expression for electric field on axial line of a dipole.
 21. Derive the expression for electric field on equatorial line of a dipole.
 22. Explain electric field lines and their properties.
 23. Write differences between axial and equatorial positions of dipole.

5Mark Questions (Long Answer)

24. Derive the electric field due to a dipole on axial line.
 25. Derive the electric field due to a dipole on equatorial line.
 26. Explain Gauss's law and its applications.
 27. Derive the expression for electric field due to an infinite plane sheet.
 28. Explain the concept of electric field lines with diagrams and properties.

Case-Based Questions

Case Study:

Two charges $+q$ and $-q$ are placed at a small distance forming a dipole.

Answer the following:

- Define electric dipole moment.
- What is the direction of dipole moment?
- What happens to dipole moment if distance increases?
- Compare electric field at axial and equatorial points.

Assertion–Reason Questions

Q1

Assertion (A): Electric field lines never intersect.

Reason (R): At a point, electric field has a unique direction.

BIOLOGY

If an angiospermic plant has a diploid number of chromosomes of 16. Mention how many chromosomes are in the endosperm and antipodal cell.

Q. At the end of microsporogenesis and megasporogenesis, what structures are formed?

Q. Cell division occurs in Angiospermic plants prior to the formation of microspores in sporogenous tissue.

Q. List any four distinguishing characteristics of the insect-pollinated flower.

Q. Why can pollen grains survive as fossils so well?

Q. How are the cells in an embryo sac organised?

Q. Distinguish microsporogenesis from megasporogenesis. What type of cell division takes place during these events? Name the structure that results from these two events.

Q. What exactly is triple fusion? Where does it happen?

Q. Explain the stages of development of a microspore into a pollen grain.

Q. Describe the composition of a pollen grain.

Q. Follow the growth of microsporocytes into mature pollen grains.

Q. What are the post-fertilization changes that occur in a flowering plant?

Q. What is parturition?

Q. Despite the presence of several sperms in the vicinity of an egg cell, only one sperm enters the ovum. Explain?

Q. What is the function of Leydig cells?

Q. State the reason why the male testes are located outside the abdominal cavity.

Q. How is polyspermy checked by the zona pellucida of the ovum?

Q. What is the importance of the cervix in the female reproductive system?

Q. Explain the function of the epididymis in male fertility.

Q. State the role of the ampullary-isthmic junction in the female reproductive tract.

Q. Give a reason for the following statements :

- The first half of the menstrual cycle is called the follicular phase as well as the proliferative phase.
- The second half of the menstrual cycle is called the luteal phase as well as the secretory phase.

Q. State the number of chromosomes in the following cells. Primary oocyte, secondary oocyte, ootid, and follicle.

Q. What is colostrum? State its importance to a newborn baby.

Q. Where are the Leydig cells situated? What do they release?

Q. State the male accessory glands and their function.

Q. Where does oogenesis occur? Explain the stages of this process.

- Q. 'A fertilised egg is the blueprint of future development'. Explain the statement.
- Q. A sperm has just fertilised a human egg in the fallopian tube. Write down the events that the fertilised eggs will go through till the implantation of the blastocyst in the uterus.
- Q. What is menstruation? What are the roles of FSH, LH, oestrogen & progesterone in the menstrual cycle?
- Q. What do the term parturition and lactation mean?
- Q. Explain the organisation of the mammary gland.
- Q. What is reproduction? How do humans reproduce their offspring?

MATHS

RELATIONS & FUNCTIONS – 50 QUESTIONS

Class: 12

Section A: MCQs

- 1 A relation is a subset of $A \times B$
- 2 (a, b) in R represents an ordered pair
- 3 A function maps each input to exactly one output
- 4 Domain of $f(x)=x^2$ is real numbers
- 5 Reflexive relation: $(a,a) \in R$
- 6 One-one: $f(a)=f(b) \Rightarrow a=b$
- 7 Onto: Range = Codomain
- 8 Inverse exists only for bijective function
- 9 Inverse of $f(x)=2x+1$ is $(x-1)/2$
- 10 Range of $f(x)=x^2$ is non-negative real numbers

Section B: Very Short

- 1 Define relation
- 2 Define function
- 3 Define domain
- 4 Define codomain
- 5 Define range
- 6 Define reflexive relation
- 7 Define symmetric relation
- 8 Define transitive relation
- 9 Define equivalence relation
- 10 Define bijective function

Section C: Short Answer

- 1 Check reflexive relation
- 2 Check symmetric relation

- 3 Check transitive relation
- 4 Find domain of $\sqrt{x-1}$
- 5 Find domain of $1/(x-2)$
- 6 Check one-one function
- 7 Check onto function
- 8 Find composite function $f(g(x))$
- 9 Find composite function $g(f(x))$
- 10 Find inverse function

Section D: Long Answer

- 1 Prove function is one-one
- 2 Check if function is one-one
- 3 Find inverse function
- 4 Verify inverse
- 5 Prove bijection has inverse
- 6 Explain types of functions
- 7 Explain equivalence relation
- 8 Find composite function
- 9 Find domain & range
- 10 Check equivalence relation

Section E: HOTS

- 1 Can function be many-one and onto?
- 2 Is x^2 invertible?
- 3 Find self-inverse function
- 4 Find $f(f(x))$ for $1/x$
- 5 Interpret $f(g(x))=x$

Section F: Extra Practice

- 1 Find domain of $\sqrt{5-x}$
- 2 Check symmetric relation
- 3 Find inverse of $5x-7$
- 4 Check onto function
- 5 Find composite function

HISTORY

Section A – Chapter-wise Questions

1. Bricks, Beads and Bones (Harappan Civilization)

1. Describe the town planning of Harappan Civilization.
2. Explain the drainage system and its importance.
3. What do seals tell us about Harappan trade and culture?

2. Kings, Farmers and Towns

1. Explain the growth of Magadha as a powerful kingdom.
2. Discuss the role of agriculture in the ancient Indian economy.

3. Kinship, Caste and Class

1. Describe social structure in the Mahabharata.

2. Explain the concept of caste and its impact on society.

4. Thinkers, Beliefs and Buildings

1. Teachings of Gautama Buddha.
2. Compare Buddhism and Jainism.

5. Through the Eyes of Travellers

1. Write about accounts of Ibn Battuta and Al-Biruni.

Section B – Map Work

1. On an outline map of India, mark and label:
2. Important Harappan sites (Harappa, Mohenjo-daro, Lothal)
3. Mauryan Empire regions
4. Important medieval cities like Delhi, Agra

copying; write in your own words

Section C – Project Work (Any One): Topic Options:

1. Life and achievements of Ashoka
2. Trade relations of the Indus Valley Civilization
3. Contribution of Akbar to Indian administration
4. Bhakti and Sufi movements in India

Project Guidelines: 10–15 pages

Include pictures, maps, and headings & Add bibliography

Section D – Case Study Questions: Write your interpretation in 150–200 words

Section E – Creative Work

1. Make a timeline chart of Indian history
2. Prepare a family tree of Mughal rulers
3. Draw a Harappan city layout diagram

Section F – Revision Work: Prepare short notes (2–3 pages each) on:

1. Harappan Civilization
2. Mauryan Empire
3. Mughal Administration

GEOGRAPHY

Short Answer Questions-

1. Explain Geography as a science.
2. Describe the relation between Geography and Environment.
3. What are the causes of high population growth in developing countries?
4. Define birth rate and death rate.
5. Describe the scope of Geography in modern times.
6. Explain the role of Geography in solving environmental problems.
7. Explain the term “population composition”

Long Answer Questions

1. Discuss the relationship of Geography with other sciences like History, Economics and Biology.
2. Explain the importance of Geography in planning and development.
3. Describe the patterns of world population distribution with examples.
4. Explain population problems in the world and suggest measures to control them

MAP WORK-

A. Major Sea Routes (Ocean Trade Routes)

(Draw with Blue color lines and arrows)

Mark and label these important sea routes on the World Map:

1. **North Atlantic Sea Route**
 - Connects: **Western Europe ↔ Eastern USA/Canada**
 - Ports: London, Rotterdam, New York
2. **Mediterranean–Suez Canal–Indian Ocean Route**
 - Connects: **Europe ↔ South Asia / Southeast Asia**
 - Important points: Mediterranean Sea, Suez Canal, Red Sea
3. **Cape of Good Hope Route**
 - Connects: **Europe ↔ Asia (via South Africa)**
4. **Trans-Pacific Sea Route**
 - Connects: **East Asia ↔ Western North America**
 - Ports: Japan/China ↔ USA (California)
5. **South Atlantic Sea Route**
 - Connects: **South America ↔ Africa**

B. Important International Ports (Mark with Green Dots)

Mark and label these ports on World map-

North America

1. New York (USA)
2. Los Angeles (USA)
3. Vancouver (Canada)

Europe

4. Rotterdam (Netherlands)
5. London (UK)
6. Hamburg (Germany)

Asia

7. Shanghai (China)
8. Tokyo (Japan)
9. Singapore (Singapore)
10. Mumbai (India)

Africa

11. Cape Town (South Africa)
12. Durban (South Africa)

South America

13. Rio de Janeiro (Brazil)
14. Buenos Aires (Argentina)

C.Major Sea Ports of India (Mark with • Blue Dot)

West Coast Ports (Arabian Sea)

1. **Kandla / Deendayal Port** (Gujarat)
2. **Mumbai Port** (Maharashtra)
3. **JNPT – Jawaharlal Nehru Port** (Navi Mumbai)
4. **Mormugao Port** (Goa)
5. **New Mangalore Port** (Karnataka)
6. **Kochi Port** (Kerala)

East Coast Ports (Bay of Bengal)

7. **Chennai Port** (Tamil Nadu)
8. **Ennore / Kamarajar Port** (Tamil Nadu)
9. **Visakhapatnam Port** (Andhra Pradesh)
10. **Paradip Port** (Odisha)
11. **Kolkata–Haldia Port** (West Bengal)
12. **Tuticorin / V.O. Chidambaranar Port** (Tamil Nadu)

ECONOMICS

Instructions:

- Answer all questions neatly.

- Use diagrams wherever required.
- Attempt project work creatively.
- Write in your own words.

SECTION A: VERY SHORT ANSWER (1 MARK EACH)

1. Define Micro Economics.
2. What is Macro Economics?
3. What is meant by Real Flow?
4. Define Money Flow.
5. What is a Closed Economy?
6. What is an Open Economy?
7. Define Stock variable.
8. Define Flow variable.
9. Name any two factors of production.
10. What is Circular Flow of Income?

SECTION B: SHORT ANSWER

Identify Normal resident and answers according to the Questions

1. Ramesh is working in Dubai for 2 years but his family lives in India and he plans to return. Is he a normal resident of India? Explain.
2. A foreign tourist comes to India for 3 months for sightseeing. Will he be considered a normal resident of India? Why?
3. An Indian student goes to the USA for higher studies for 4 years. Is he a normal resident of India during that time? Explain.
4. A Japanese company opens a branch in India and operates here for many years. Is this company a normal resident of India? Why?
5. Rahul works in an Indian embassy in Canada. Is he considered a normal resident of India or Canada? Explain.

6. A person comes to India for medical treatment for 6 months. Will he be treated as a normal resident? Give reason.

7. An Indian company operating in India but owned by foreign investors—Is it a normal resident of India? Why?

8. A worker from Nepal comes to India and works here for 5 years. Is he a normal resident of India? Explain.

9. An Indian engineer goes abroad for a short-term project of 6 months. Does his resident status change? Why?

10. A foreign diplomat living in India for many years—Is he a normal resident of India? Explain with reason.

SECTION C: CASE STUDY

Case 1:

Ravi works in a company and earns wages. He spends his income on buying goods and services.

Questions:

1. Identify the type of flow involved.
2. Which sector does Ravi belong to?
3. What type of economy is this example related to?

Case 2:

India trades goods with other countries and also imports oil.

Questions:

1. What type of economy is this?
2. Which sector is involved?
3. Give one example of injection here.

SECTION D: FILL IN THE BLANKS

1. Micro Economics is also known as _____ theory.

2. Macro Economics deals with ____ variables.
3. Real flow is also called ____ flow.
4. Money flow is also known as ____ flow.
5. Closed economy has ____ sectors.
6. Open economy includes ____ sector.
7. Stock is measured at ____ point of time.
8. Flow is measured over a ____ of time.
9. Savings are called ____ in circular flow.
10. Investment is called ____.

SECTION E: TRUE / FALSE

1. Micro Economics deals with aggregates. ()
2. Macro Economics studies individual units. ()
3. Real flow involves money. ()
4. Money flow includes payments and expenditure. ()
5. Closed economy includes foreign sector. ()
6. Flow is a static concept. ()
7. Stock has no time dimension. ()
8. Households supply factor services. ()
9. Firms produce goods and services. ()
10. Imports are injections. ()

SECTION F: DIAGRAM

Draw Circular Flow of Income in a Two-Sector Economy.

SECTION G: Answers in your own words

1. Why is Circular Flow important?
2. What happens if leakages exceed injections?
3. Can economy exist without households?
4. Why Macro Economics is important?

SECTION H: PROJECT WORK

1.Topic: Circular Flow of Income in Real Life

- Draw diagram
- Explain with examples

2.Topic: Factors of Production Around You

- Identify Land, Labour, Capital, Entrepreneur

SECTION I: CREATIVE ACTIVITY

1.Create chart on Closed vs Open Economy and Stock vs Flow.

2.Write a short story showing money flow in your family.

ART EDUCATION

- (1) Draw & colour any landscape – 2 sheets.
- (2) Draw & colour still life in both medium 2 sheet each.(pencil & colours).
- (3) Draw and colour any 2 beautiful folk art of your choice(2 sheets).
- (4) Make any Craft work for best out of waste activity.
- (5) Learn Chapter 1all question and answer,fill ups etc.also read Chapter 2.

PHYSICAL EDUCATION

- 1) Obesity and its prevention
- 2) Importance of mental health in sports
- 3) Gender equality in sports
- 4) Importance of good posture in daily life