



17781460990...



" Holiday Home work of 2026-27,"

Visual Art

Class - VIth to VIIIth A+B & 9th to 10th A+B

1. make a 3D craft related with "Rajasthan state" theme
eg. - Kathputli, camel, hut ~~etc~~, camel cart etc.
2. make a painting on A3 size paper showing culture, tradition of Rajasthan.
3. make any famous Rajasthan style painting on A4 paper.
4. make any one wall hanging 3D craft for the decoration of vii class room and vidyalaya.

Am

Maths
Makes
Learning
Possible!

1 of 5

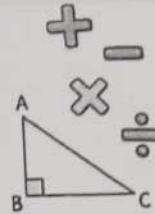
123

CLASS 6 MATHEMATICS

SUMMER HOLIDAY HOMEWORK

MAY - JUNE 2026

Think → Solve → Apply → Grow! ♥



SECTION A - NUMBER SYSTEM

1. Number Exploration

Write any 10 large numbers (up to 1,00,000).

For each number:

- ☆ Write its number name
- ☆ Write its expanded form
- ☆ Identify the place value of any one digit

Number	Place Value (of any one digit)
56,789	7 → 700

TTh	Th	H	T	O
5	6	7	8	9

2. Factors & Multiples

Find:

- ☆ Factors of the given numbers
- ☆ Multiples of the given numbers

Factors of 12:

1, 2, 3, 4, 6, 12

SECTION C - FRACTIONS

5. Fractions

Solve:

- ☆ Like and unlike fractions
- ☆ Addition and subtraction

$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$

$$\frac{5}{6} - \frac{1}{6} = \frac{4}{6}$$

6. Simplification

Simplify the given fractions.

$$\frac{6}{8} = \frac{3}{4} \quad \frac{9}{12} = \frac{3}{4}$$



SECTION B - OPERATIONS

3. Addition & Subtraction

Solve daily:

- ☆ 10 addition sums
- ☆ 10 subtraction sums

$$\begin{array}{r} 7865 \\ + 2347 \\ \hline 10212 \end{array}$$

4. Multiplication & Division

Practice:

- ☆ 3-digit × 2-digit
- ☆ Division problems

$$\begin{array}{r} 342 \\ \times 26 \\ \hline 2052 \\ 6840 \\ \hline 8892 \end{array}$$

$$\begin{array}{r} 90 \\ 42 \overline{) 3780} \\ \underline{90} \\ 378 \\ \underline{378} \\ 0 \end{array}$$

SECTION D - MEASUREMENT

7. Length, Weight & Capacity

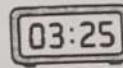
Solve problems using:

- ☆ m, cm, km
- ☆ g, kg
- ☆ ml, l



8. Time

Solve time-based problems.

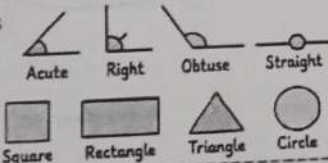


SECTION E - GEOMETRY

9. Shapes & Angles

Draw and label:

- ☆ Types of angles
- ☆ Basic shapes



10. Symmetry

Draw figures showing symmetry.



SECTION F - REAL LIFE MATHS

11. Money Activity

Prepare a bill of 5 items.
Calculate the total amount and balance.

ITEM	PRICE (₹)
Notebook	50
Pen	20
Pencil	10
Eraser	15
Sharpener	25

You have ₹200.
Find the balance.



12. Budget Planning

Plan a simple budget (with ₹200 - ₹500).



- Savings
- Needs
- Wants

SECTION G - THINKING SKILLS

13. Word Problems

Solve real-life word problems.



If a pack has 24 pencils and I buy 3 packs, how many pencils do I have?

14. Patterns & Puzzles

Solve the number patterns.
Create your own puzzle.



SECTION H - PROJECT WORK

15. Maths Scrapbook

Make a scrapbook including:

- ☆ Fractions
- ☆ Shapes
- ☆ Real-life maths examples



16. Maths Around Me

Observe and write:

- ☆ Shapes in your surroundings
- ☆ Use of maths in daily life



WHY THIS HOMEWORK IS SPECIAL

- ♥ Builds strong mathematical foundation
- ♥ Improves logical thinking
- ♥ Applies maths in real life
- ♥ Makes learning fun and meaningful



SUBMISSION GUIDELINES

- ✓ Maintain a neat and organized notebook/File.
- ✓ Use diagrams, colours and proper steps.
- ✓ Practice regularly.
- ✓ Submit after the holidays.

Practice Today,
Success Tomorrow!



PM Shri Kendriya Vidyalaya Lokra

Summer Break Home work (2026-27)

Class-6

Subject- Social Science

Chapter: Family and Community

Q1 What is a family?

Q2. What is a community?

Q3. Name any two types of families.

Q4. Who is the head of your family?

Q5. What is the importance of living in a community?

Q6. Describe the role of family in shaping a child's life.

Activity Work (Creative)

Q7. Draw your family tree (at least 3 generations)

Write names of family members

Q8. Write 8–10 lines about your community

6A

पीएम श्री केंद्रीय विद्यालय लोकरा
ग्रीष्मकालीन अवकाश
कक्षा- 6, विषय- हिंदी,

- ① पृष्ठ संख्या 12 पर दी गयी कविता 'पुष्प की अभिलाषा' याद करें।
- ② 'पहली बूँद' कविता की कम-से-काम 8 पंक्तियाँ याद करें।
- ③ ग्रीष्म ऋतु पर 200 शब्दों में एक अनुच्छेद लिखें।
- ④ ग्रीष्मकालीन अवकाश में आप ने क्या-क्या किया उसे 200 शब्दों में लिखें।
- ⑤ पढ़ाए गये पाठ का प्रश्नोत्तर फेयर कॉपी में पूरा करें।

नोट-सभी कार्य फेयर कॉपी में ही करें।

11

Holiday Home work of 2026-27,

Visual Art

class - VIth to VIIIth A+B & 9th to 10th A+B

1. make a 3D craft - related with "Rajasthan state" theme
eg. - Kathputli, camel, hut ~~etc~~, camel cart etc.
2. make a Painting on A3 size paper showing culture, tradition of Rajasthan.
3. make any famous Rajasthani style Painting on A4 paper.
4. make any one wall hanging 3D craft for the decoration of visi class room and vidyalaya.



Summer Vacation Holiday Homework -2026-27

Class VI

Subject: English

Note-To Be Done in a Scrap Book

1. Read a newspaper/ magazine of your choice and select any one unseen passage. Then, frame 3 questions from each passage and write their answers.
2. Write and learn difficult words and their meanings of lessons 1 & 2 from Poorvi (10 from each lesson)
3. Write a paragraph on the skills you have learnt during summer vacation. you may add pictures.
4. Write all the eight parts of speech with definition, their kinds and examples. Make it attractive by pictures
5. Draw a short comic strip with a funny story.
7. Complete all the pending work done during this summer vacation.
8. Revise the syllabus taught so far.

PM SHRI KENDRIYA VIDYALAY LOKRA

SUMMER VACATION HOLIDAY HOMEWORK

CLASS- VI (A+B)

Sub-WE

DATE- 07/05/2026

Phase 1: The Skill Detective (Days 1-10)

Focus: Understanding Vocational Skills & Dignity of Labour

- Interview a family member or neighbor about their occupation. What skills do they use?
- Draw a 'Dream Profession Poster' showing what you want to be when you grow up.
- Dignity of Labour Task: Spend one day helping with household chores (cleaning, cooking, or fixing something) and write a short note on how it made you feel.

Phase 2: Preparing the Ground (Days 11-20)

Focus: Soil, Seeds, and Tools Identification

- Collect three types of soil samples from your surroundings and observe their texture and color.
- Seed Collection: Find seeds of Tomato, Coriander, or Spinach from your kitchen.
- Identify and draw 5 gardening tools (e.g., trowel, watering can, hoe) in your notebook.
- Create a 'Mini Compost Pit' in a small bucket using kitchen vegetable peels.

Phase 3: The Green Thumb Challenge (Days 21-40)

Focus: School Kitchen Garden Project (Part 1 & 2)

- Sowing Ceremony: Prepare a pot or a small soil bed and sow your seeds.
- Daily Care: Water your plants daily and ensure they get enough sunlight.
- Growth Diary: Measure the height of your plant every Sunday using a ruler.
- Observation: Draw the different stages of your plant's growth (Sprouting, Leafing, Stem growth).

ग्रीष्मकालीन-अवकाशस्य गृहकार्यम्

(2026-27)

कक्षा - षष्ठी (A+B) विषयः संस्कृतम्

(1) वर्णविच्छेदं कुरुत (वर्णविच्छेदं कीजिए)

- (क) चालयन्ति (ख) कदलीफलम् (ग) वृत्यन्ति
(घ) पत्राणि (ङ) पत्रवाहकः (च) मूर्धन्यः
(छ) सन्ति (ज) श्रीकृष्णः ।

(2) वर्णसंयोजनं कुरुत (वर्णसंयोजनं कीजिए)

- (क) श् + उ + न् + अ + क् + आः
(ख) व् + ऋ + द् + ध् + औ
(ग) क् + ऋ + ष् + अ + क् + आः
(घ) क् + उ + र् + व् + अ + न् + त् + इ
(ङ) प् + उ + स् + त् + अ + क् + आ + ल् + अ + थ् + औः
(च) प् + र् + आ + क् + ऋ + त् + इ + क् + अः

(3) निम्न पदानि संस्कृते लिखत (निम्न पदों को संस्कृत में लिखिए)

- (क) बालक (ख) दो बालिकाएँ (ग) तुम (घ) हम सब
(ङ) मैं (च) हम दोनों (छ) दो बालक (ज) अनेक बालक

(4) निम्न वाक्यानि संस्कृत भाषया लिखत (निम्न वाक्यों को संस्कृत में लिखिए)

- (क) वह बालिका है। (ख)
(ख) बालिका खाती है।
(ग) बालक पढ़ता है।

SUMMER VACATION HOMEWORK – CLASS 6 (SCIENCE)

1. My Mini Garden Project

Grow any one plant (coriander, mint, tomato, etc.)

Observe it for 10–15 days

Write:

Date of planting

Changes observed

Paste real leaves or photos

2. Science Around Me

Observe your surroundings and write 5 examples each of:

Living and Non-living things

Natural and Man-made things

3. Fun Experiment at Home

Do this simple activity:

Take water in a glass

Add salt and stir

Then try adding more salt

Write:

What happens?

Why does salt stop dissolving after some time?

4. Draw and Learn

Draw and label:

Parts of a plant

Types of teeth

Make it colorful and neat!

5. Science Story Time

6- Science

Write a short creative story on: 🖋️ "A Day Without Water"

(Imagine what would happen if there was no water for one day)

6. Save Environment Poster

Make a poster on: "Save Earth, Save Future"

7. Healthy Food Chart

Make a chart showing:

Healthy food

Junk food

8. Watch any science-related video or visit a park/garden

Write 5 new things you learned

the syllabus taught so far.

Summer Vacation Holiday Homework -2026-27

Class VII

Subject: English

1. Make your own dictionary of 3 words each with meaning in coloured sheet.
2. Read English Newspaper daily (loud reading) for atleast 10 minutes.
3. Write 1 poem with pictures other than your textbook.
4. Write at least 10 sentences on 'How did you spend your Summer holidays'.
5. Write few lines on "Importance of Trees".

Summer Vacation Holiday Homework -2026-27

7A

पीएम श्री केंद्रीय विद्यालय लोकरा

ग्रीष्मकालीन अवकाश

कक्षा- 7, विषय- हिंदी,

- ① 'मां, का एक कहानी' कविता को याद करें।
- ② 'तीन बुद्धिमान' कहानी को एक बार स्वयं पढ़ें।
- ③ ग्रीष्म ऋतु पर 300 शब्दों में एक अनुच्छेद लिखें।
- ④ ग्रीष्मकालीन अवकाश में आप ने क्या-क्या किया उसे 200 शब्दों में लिखें।
- ⑤ पढ़ाए गये पाठ का प्रश्नोत्तर फेयर कॉपी में पूरा करें।

नोट-सभी कार्य फेयर कॉपी में ही करें।

Holiday Homework- Class 7 (A+B)

Date - 08-05-2026

08-05-26

Multiple Choice Questions

- How many zeroes are there in one lakh?
(a) 4 (b) 5 (c) 6 (d) 7
- Which is greater?
(a) 1 crore (b) 10 lakh
(c) 1 million (d) 1000 lakh
- The Indian number 1,00,00,000 is called in the international system.
(a) Ten million (b) One billion
(c) One million (d) Hundred million
- 1 crore is equal to
(a) 10 lakh (b) 100 lakh
(c) 1,000 lakh (d) 10,000 lakh
- Which of these is the largest 4-digit number?
(a) 999 (b) 9999
(c) 1000 (d) 10000
- The Statue of Unity is approximately how tall?
(a) 100 metres (b) 450 metres
(c) 180 metres (d) 200 metres
- Which calculator uses only the +1000 button?
(a) Tedious Tens (b) Thoughtful Thousands
(c) Creative Chitti (d) Systematic Sippy
- The greatest natural number among all is
(a) 1 crore (b) 10 crores
(c) 10 lakhs (d) 100 lakh
- How many days are there in 100 years (ignoring leap years)?
(a) 36,000 (b) 3,65,000
(c) 36,500 (d) 36,525

Assertion Reason

- Assertion (A)** One lakh is written as 1,00,000 in the Indian system.
Reason (R) In the Indian system, commas are placed after every three digits from right to left.
(a) Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
(b) Both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
(c) Assertion is true but Reason is false.
(d) Assertion is false but Reason is true.

- Assertion (A)** If a person eats 3 varieties of rice per day, they can taste all 1 lakh varieties in 100 years.
Reason (R) $3 \times 365 \times 100 = 1,09,500 > 1,00,000$
(a) Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
(b) Both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
(c) Assertion is true but Reason is false.
(d) Assertion is false but Reason is true.

Fill in the Blanks

- The smallest 6-digit number is
- The number 50,00,000 is written in words as
- 1 crore = ... lakhs.
- The population of Pune was 2538473 in 2001. Rounded off to nearest thousands, the population was
- 9876501234 in Indian place value notation is written as

True/False

- One crore is larger than one billion.
- The number 58663 rounded off to nearest hundred is 58600.
- The number 999 is the largest 3-digit number.
- $25 = \frac{1,000}{4}$
- The number 1,06,000 is more than 1 lakh.

Match the Columns

- Match the Column A to Column B.

Column A	Column B
(i) 1 lakh	(a) 1,00,000
(ii) 1 crore	(b) 900
(iii) Statue of Unity	(c) 100 lakhs
(iv) 36×25	(d) 180 metres
(v) Thoughtful Thousands	(e) + 1000 button

ग्रीष्मकालीन अवकाशस्य गृहकार्यम्

(२०२६-२७)

कक्षा - सप्तमी (A+B)

विषय - संस्कृतम्

- (१) संस्कृते छात्रप्रतिष्ठा लिखित्वा स्मरत (एषा श्रविता प्रविष्यति)
(* संस्कृत में छात्र प्रतिष्ठा लिखें व याद करें। यह आपसे सुनी जायेगी)
- (२) संस्कृतभाषायाम् २-५० पर्यन्तम् संख्याशब्दान् लिखत ।
(* संस्कृतभाषा में १-५० तक संख्या शब्दों में लिखें।)
- (३) गद्यांशं पठित्वा प्रश्नानाम् उत्तराणि संस्कृतभाषायां लिखत ।
शमः एकः बुद्धिमान् छात्रः अस्ति। सः प्रतिदिनं प्रातःकाले विद्यालयं गच्छति। विद्यालये सः मनोयोगेन सह अध्ययनं करोति। तस्य गुरुवः अपि तं प्रशंसन्ति। शमः अवकाशे हि क्रीडति अपि, किन्तु अध्ययनं प्रति सदा तत्परः भवति। अतः सः सर्वेषां प्रियः छात्रः अस्ति।

प्रश्नाः

- (i) शमः कः अस्ति
 - (ii) शमः कदा विद्यालयं गच्छति ?
 - (iii) विद्यालये शमः किं करोति ?
 - (iv) के शमं प्रशंसन्ति ?
 - (v) शमः सर्वेषां प्रियः छात्रः कुत्रः अस्ति ?
- (५) अव्ययस्य परिभाषां दत्वा किमपि २० (10) अव्ययानां अर्थसहितं उदाहरणं लिखत।
(* अव्यय की परिभाषा देते हुए किन्ही 10 अव्ययों का अर्थ सहित उदाहरण लिखिए।)

PM SHRI KENDRIYA VIDYALAYA LOKRA

SUMMER VACATION HOLIDAY HOMEWORK

CLASS- VII (A+B)

Sub-WE

DATE- 07/05/2026

40-Day Plant Nursery Roadmap

Phase	Timeline	Tasks & Activities
Phase 1: Getting Ready	Days 1 - 7	Identify 2-3 types of seeds (Tomato, Chili, Marigold, or Beans). Prepare your pots/ containers with a mix of soil and manure. 🍷
Phase 2: The Sowing	Days 8 - 14	Sow your seeds carefully. Keep a 'Germination Watch'—observe when the first green sprout peeks out! ☀️
Phase 3: The Caretaker	Days 15 - 30	Water your seedlings daily (but don't drown them!). Protect them from the harsh afternoon sun. Watch them grow taller! 💧
Phase 4: Transplanting	Days 31 - 38	If your plants are getting too big for their small pots, carefully move them to larger pots or a garden bed. Record the height and leaf count.
Phase 5: Reflection	Days 39 - 40	Complete your Growth Diary and answer the Reflection Log questions. Prepare to share your green success!

" Holiday Home work of 2026-27 "

Visual Art "

class - VIth to VIIIth A+B & 9th to 10th A+B

1. make a 3D craft related with "Rajasthan state" theme
eg. - Kathputli, camel, hut ~~etc~~, camel cart etc.
2. make a painting on A3 size paper showing culture, tradition of Rajasthan.
3. make any famous Rajasthan style painting on A4 paper.
4. make any one wall hanging 3D craft for the decoration of vii class room and vidyalaya.

Amul

H. H. V. H. H.

201901002 CLASS - VII SUB - So. Sc.

(A)

- Q1. Paste two map of India, Physical as well as political; Identify the place you are at now, which physical feature of India would you use to describe its location and also show the different feature on map of India.
- Q2. Food Preservation techniques differ place to place across India. They are adapted to local conditions. Do a class project. Gather different methods of preserving food.
- Q3. Despite having such different region (mountains, deserts, plains, coasts), India remains one country. How do you think our geography has helped unite people.
- Q4. What do you think India might have looked like if the Himalayas did not exist? Write a short note or sketch a drawing to express your imagination.
- Q5. Why is the southern part of India referred as a Peninsular plateau?

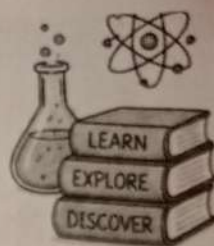
Science
is fun when
you explore,
observe and
understand!

CLASS 7 - SCIENCE

SUMMER HOLIDAY HOMEWORK

MAY - JUNE 2026

Observe • Experiment • Learn • Grow!



SECTION A - OBSERVATION & ANALYSIS

1. Task 1: Science Around Me

Observe surroundings and list:

- ☆ 5 natural things
- ☆ 5 man-made things



2. Task 2: Daily Science Diary

Write daily:

- ☆ Weather conditions
- ☆ One scientific observation
- ☆ One question that comes to mind



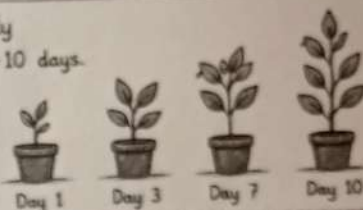
SECTION B - LIVING WORLD

3. Task 3: Plant Study

Observe a plant for 7-10 days.

Record:

- ☆ Growth changes
- ☆ Leaf structure
- ☆ Watering pattern



4. Task 4: Nutrition in Plants & Animals

Write short notes on:

- ☆ Autotrophs and heterotrophs
- ☆ Types of animal nutrition



SECTION C - EXPERIMENTS

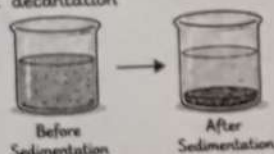
5. Task 5: Simple Experiments

Perform and record:

- ☆ Test solubility of substances in water
- ☆ Observe sedimentation and decantation

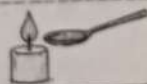
Write:

- ☆ Aim
- ☆ Procedure
- ☆ Observation
- ☆ Conclusion



6. Task 6: Heat & Temperature

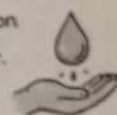
Observe effects of heat on different objects.



SECTION D - ENVIRONMENT & RESOURCES

7. Task 7: Water Conservation

Write 8-10 ways to save water.



SAVE WATER
SAVE EARTH

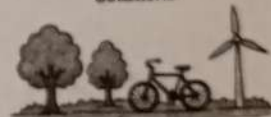
8. Task 8: Environmental Awareness

List causes and solutions of pollution.

Causes



Solutions



SECTION E - SCIENCE IN DAILY LIFE

9. Task 9: Uses of Science

Write uses of science at:

- ☆ Home
- ☆ School
- ☆ Transport

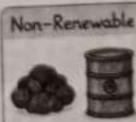
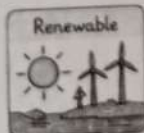


10. Task 10: Energy Sources

List:

- ☆ Renewable sources
- ☆ Non-renewable sources

Give examples.



SECTION F - THINKING SKILLS

11. Task 11: Reasoning Questions

Answer the following:

- ☆ Why do objects expand on heating?
- ☆ Why is water essential for life?



12. Task 12: Science Quiz

Prepare 10 questions based on daily life science.



SECTION G - CREATIVE ACTIVITIES

13. Task 13: Poster Making

Topic:

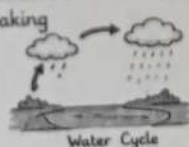
- ☆ Save Environment
- ☆ Save Energy



14. Task 14: Model Making

Make a model on:

- ☆ Water cycle
- ☆ Digestive system



Water Cycle



Digestive System

SECTION H - PROJECT WORK

15. Task 15: Science Scrapbook

Make a scrapbook including:

- ☆ Diagrams
- ☆ Experiments
- ☆ Interesting facts



16. Task 16: Science Around Me

Observe and write:

- ☆ Science in kitchen
- ☆ Science in daily activities



SUBMISSION GUIDELINES

- ✓ Maintain a neat and well-organized file.
- ✓ Use diagrams, labels, and colours.
- ✓ Write observations clearly.

Remember!

- Be Curious
- Think Deeply
- Ask Questions



WHY THIS HOMEWORK IS SPECIAL

- ☆ Helps you think scientifically
- ☆ Learn by doing and discovering
- ☆ Build confidence and creativity



Summer Vacation Holiday Homework -2026-27

Class VIII

Subject: English

1. Read English newspaper daily and find and write five new words daily with meanings.
2. Watch English movies and write any one review from the given movies.
 - * Dead poets society
 - * I am kalam
 - * The pursuit of happiness
3. Read any one novel and write its summary.
 - * The Blue Umbrella by Ruskin Bond .
 - * The gravity of us by Phil Stamper.
 - * The Hound of the Baskervilles by Arthur Conan Doyle.
4. Make a model on grammar topic Noun or Pronoun.(working or non-working)

PM SHRI KENDRIYA VIDYALAYA LOKRA

SUMMER VACATION HOLIDAY HOMEWORK

CLASS- VIII (A+B)

Sub - WE

DATE- 07/05/2026

PHASE 1: Exploring Vocational Skills (Days 1-10)

My Dream Career: Create an A4 size "Vocation Poster" showcasing your dream job, the tools required, and the dignity associated with it.

Skill Interview: Interview any skilled person in your neighborhood (Tailor, Electrician, Chef). Write down the top 3 skills they use daily.

Dignity of Labour: Help with a household chore (washing, fixing, or organizing). Snap a photo and write how you contributed to the "Dignity of Labour" at home.

PHASE 2: Project Hydroponics - Setup (Days 11-20)

Topic: Growing Plants Without Soil

Bottle Prep: Recycle a 2-liter plastic bottle. Cut it as shown in your textbook to create a wick-system hydroponic pot.

Sowing: Use seeds like Fenugreek (Methi) or Mint. Set up the system using water and a cotton wick.

Visual Aid: Draw a diagram of your setup in your notebook.

Sub - WE

REFLECTION LOG (Assessment)

1. What is the main difference between growing plants in soil vs. hydroponics?
2. Why is "Dignity of Labour" important in any profession?
3. List three tools you used during your project and their functions.
4. Describe the color and texture of the roots you observed in your hydroponic bottle.
5. Which plant did you choose and why did you pick it?
6. What was the biggest challenge you faced while maintaining your setup?
7. How does vocational education help you in your daily life?
8. Based on your project, do you think hydroponics is cost-effective? Why?
9. If you had to scale this project up, what bigger materials would you need?
10. How did this activity change your perspective on farming and agriculture?

THANKS

ग्रीष्मकालीन अवकाशस्य गृहकार्यम्

विषय - संस्कृतम्

कक्षा - अष्टमी (A+B)

- (1) संख्यावाची शब्दः - 1-100 पर्यन्तं संस्कृतभाषायां लिखत ।
(संस्कृतभाषामें 1-100 पर्यन्तम संख्या शब्दों में लिखो)
- (2) राम, लता, नदी, गुरु शब्दरूपाणि लिखत ।
(राम, लता, नदी, गुरु शब्दरूप लिखो)
- (3) संस्कृत प्रतिष्ठां लिखित्वा अभ्यासं कुरुत ।
(संस्कृत भाषा में छात्र प्रतिष्ठा लिखें व वाद करें)
- (4) दीपकम् पाठ्यपुस्तकस्य द्वितीय अध्यायस्य प्रश्नोत्तरं सम्पन्नं कुरु ।
(‘दीपकम्’ पाठ्यपुस्तक के द्वितीय पाठ से प्रश्नोत्तर सम्पूर्ण लिखिए।)
- (5) समनता व एकता पर आधारित आपकी पाठ्यपुस्तक के अतिरिक्त कोई भी 5 श्लोक अर्थसहित लिखें ।

कक्षा-आठवीं

8A/8B

ग्रीष्मकालीन अवकाश

गृह कार्य

- स्वदेशी और दो गौरैया पाठ से संबंधित व्याकरण कॉपी में करें।
- प्रसिद्ध कवियों की पांच कविताएं A4 साइज शीट पर सुंदर से सजा कर लिखें।
- पंचतंत्र की 20 कहानी पढ़ें और उनका सारांश कॉपी में लिखकर तथा उनसे प्राप्त सीख को भी कॉपी में लिखें।
- कॉपी में विभिन्न विषयों पर पांच प्रार्थना पत्र लिखें।
- क्रिया की परिभाषा और उसके भेद तथा क्रिया विशेषण की परिभाषा और उसके भेद भी कॉपी में लिखें।

कक्षा नवमी

9B

ग्रीष्मकालीन अवकाश

गृह कार्य

- A4 साइज शीट पर पांच विज्ञापन बनाओ और उन्हें सजायें।
- पांच औपचारिक और पांच अनौपचारिक पत्र लिखें।
- शब्दालंकार की परिभाषा तथा उसके भेदों की परिभाषा लिखते हुए सभी के 10-10 उदाहरण भी लिखें।
- प्रसिद्ध लेखकों की पांच कहानी पढ़ें और उनका सारांश लिखें।
- नई पाठ्यपुस्तक के तीन पाठ पढ़ें और उनका सारांश लिखें।

PM SHRI KENDRIYA VIDYALAYA LOKRA

SUMMER VACATION HOMEWORK

SUBJECT: SCIENCE

CLASS: VIII (A+B)

1. In your main notebook, complete detailed notes and exercise question answers for chapter-2 (The invisible living world: Beyond our naked eye).
2. Profile any 2 scientists from following: (Separate notebook)

- i) Dr Yellapragada Subbaraw
- ii) Dr Mary Poonem Lukose
- iii) Dr R.K. Pachauri
- iv) Dr. Verghese Kurien

Write about their contributions to science and health (min 2 pages). Add photos too.

3. Multidisciplinary Project (MDP)

Project Topic: Microorganisms and diseases

Science Theme: Understanding and Prevention

- i) Choose 3 human diseases caused by microorganisms and explain causative organisms, symptoms and effects on health
- ii) Labeled diagrams for different microorganisms
- iii) List at least 5 ways to prevent the spread of these diseases in daily life.

4. Write any 30 scientific words and their meanings from curiosity class 8. (Separate notebook)
5. Track your diet for 10 days and write about the nutrients you will eat. Paste pictures of you with your family holding the food plate. (Separate notebook)
6. Plant a tree on 10th May and take care of it. Click pictures on 10th May and 15th June. Paste them on scrapbook.

HAPPY HOLIDAYS. BE SAFE, BE GOOD. ENJOY 😊

Summer Vacation Holiday Homework -2026-27

Class VIII (A+B)

Subject: Social Science

Chapter 1

1. Name the farming method which uses compost and natural repellents like neem and garlic.
2. What Indian scripture teaches lokasangraha, or doing good for all?
3. Which body has made rules to control cement dust pollution?
4. Name the method that collects and stores rainwater for reuse.
5. Which type of resource includes sunlight, forests and soil?
6. Mention the fossil fuel that takes millions of years to form.
7. Name a metal that is a non-renewable resource.
8. Name the process where nature creates new life and thriving conditions.

Chapter 2

1. Name the ruler defeated in 1192, marking the rise of the Delhi Sultanate.
2. Mention the Sultan responsible for shifting the capital to Daulatabad.
3. Name the Rajput king credited with the construction of Kumbhalgarh Fort.
4. Give the type of token currency introduced by Muhammad-bin-Tughlaq.
5. Name the empire that took over the Hoysala kingdom in the 14th century.
6. Name the founder of the Mughal Empire in India.
7. 2. Mention the new weapon introduced by Babur in Indian warfare.
8. State the age at which Akbar took the throne as emperor.
9. Identify the tax on non-Muslims that Akbar abolished.
10. Give the name of the emperor credited for building the Taj Mahal.

Neha
21/05/26

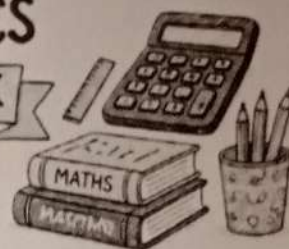
Maths is
not just
numbers,
it's a way of
thinking!

CLASS 8 - MATHEMATICS

SUMMER HOLIDAY HOMEWORK

MAY - JUNE 2026

Think • Solve • Learn • Apply • Excel



SECTION A - NUMBER SYSTEM

1. Task 1: Number Exploration

Write any 10 numbers (up to 1,00,00,000).

For each number:

- ☆ Write number name
- ☆ Write expanded form
- ☆ Find place value of any one digit

T	L	Th	Th	H	T	O
2	3	5	7	4	8	6

Expanded form:
 $2,00,00,000 + 30,00,000 + 5,00,000 + 70,000 + 4,000 + 800 + 6$

2. Task 2: Rational Numbers

Perform operations:

- ☆ Addition
- ☆ Multiplication
- ☆ Subtraction
- ☆ Division

$$\frac{2}{3} + \frac{1}{6} = ?$$

SECTION C - ALGEBRA

5. Task 5: Algebraic Expressions

Simplify expressions.

- ☆ $3x + 5y - 2x + y$
- ☆ $4a - 3b + 2a - b + 6$

$$2x + 3y$$

6. Task 6: Linear Equations

Solve linear equations in one variable.

- ☆ $3x + 7 = 22$
- ☆ $5(x - 4) = 15$
- ☆ $7x - 9 = 26$



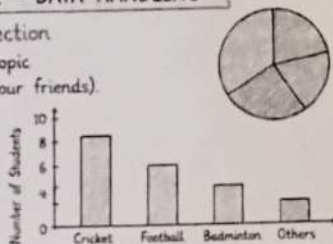
SECTION E - DATA HANDLING

9. Task 9: Data Collection

Collect data on any one topic (e.g., favourite sports of your friends).

Represent the data using:

- ☆ Bar Graph
- ☆ Pie Chart



SECTION G - THINKING SKILLS

12. Task 12: Word Problems

Solve real-life based problems. Examples:

- ☆ A shopkeeper bought 40 items at ₹25 each and sold at ₹35 each. Find his profit.
- ☆ The perimeter of a rectangular field is 220 m. If its length is 65 m, find its breadth.

13. Task 13: Puzzles & Patterns

Solve the number puzzles. Examples:

- ☆ Find the next number: 2, 6, 12, 20, 30, ?
- ☆ Create your own pattern and let your friends solve it.



SECTION B - OPERATIONS

3. Task 3: Squares & Cubes

Find squares and cubes of numbers from 1 to 20.

$$5^2 = 25$$

$$5^3 = 125$$

4. Task 4: Simplification

Solve expressions using BODMAS.

$$18 \div 3 + 4 \times 2 - 5 = ?$$

BODMAS

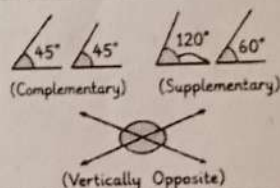
- B - Brackets
- O - Of
- D - Division
- M - Multiplication
- A - Addition
- S - Subtraction

SECTION D - GEOMETRY

7. Task 7: Lines & Angles

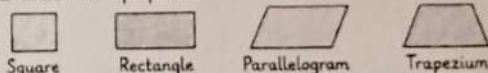
Draw and label:

- ☆ Complementary angles
- ☆ Supplementary angles
- ☆ Vertically opposite angles



8. Task 8: Quadrilaterals

Draw the following types of quadrilaterals and write their properties.



SECTION F - REAL LIFE MATHS

10. Task 10: Profit & Loss

Prepare examples based on:

- ☆ Profit
- ☆ Loss
- ☆ Discount



11. Task 11: Budget Planning

Plan a weekly or monthly budget.

- Include:
- ☆ Income
 - ☆ Expenses
 - ☆ Savings



SECTION H - PROJECT WORK

14. Task 14: Maths Scrapbook

Make a scrapbook including:

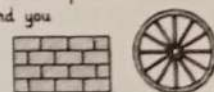
- ☆ Important formulas
- ☆ Algebra concepts
- ☆ Graphs
- ☆ Real-life applications



15. Task 15: Maths Around Me

Observe and write:

- ☆ Use of maths in daily life
- ☆ Shapes and patterns around you



SUBMISSION GUIDELINES

- ✓ Maintain a neat and well-organized notebook or file.
- ✓ Show all steps clearly.
- ✓ Use diagrams and colours.
- ✓ Submit after the holidays.

Remember!

- ♥ Practice daily
- ♥ Be curious
- ♥ Stay consistent
- ♥ Enjoy learning maths!



WHY THIS HOMEWORK IS SPECIAL

- ☆ Builds strong mathematical foundation
- ☆ Enhances logical reasoning
- ☆ Applies maths in real life
- ☆ Makes learning fun and meaningful





17781460990...



" Holiday Home work of 2026-27,"

Visual Art

Class - VIth to VIIIth A+B & 9th to 10th A+B

1. make a 3D craft related with "Rajasthan state" theme
eg. - Kathputli, camel, hut ~~at~~, camel cart etc.
2. make a painting on A3 size paper showing culture, tradition
of Rajasthan.
3. make any famous Rajasthan style painting on A4 paper.
4. make any one wall hanging 3D craft for the
decoration of vii class room and vidyalaya.

Am

Summer Holiday Homework – Class 10 (Social Science)

Chapters Covered: (Learn the covered syllabus)

1. The Rise of Nationalism in Europe (History)
2. Development (Economics)
3. Resources and Development (Geography)
4. Power Sharing (Political Science)

Section A: Project Work (Any ONE)

(Do in a separate file with pictures/maps)

Option 1: Nationalism in Europe

- *Timeline of major events (1789–1871)
- *Role of 3 leaders (Mazzini, Cavour, Bismarck)
- *Explain how nationalism led to unification

Option 2: Resources and Development

- *Types of resources with examples
- *Soil types of India (with map work)
- *Methods of resource conservation

Summer Holiday Homework – Class 10 (Social Science)

Chapters Covered: (Learn the covered syllabus)

1. The Rise of Nationalism in Europe (History)
2. Development (Economics)
3. Resources and Development (Geography)
4. Power Sharing (Political Science)

Section A: Project Work (Any ONE)

(Do in a separate file with pictures/maps)

Option 1: Nationalism in Europe

- *Timeline of major events (1789–1871)
- *Role of 3 leaders (Mazzini, Cavour, Bismarck)
- *Explain how nationalism led to unification

Option 2: Resources and Development

- *Types of resources with examples
- *Soil types of India (with map work)
- *Methods of resource conservation

प्राथमिकालीन अवकाशस्य गृहकार्यम्

कक्षा - दशमी (A+B)

(1) पाठ्यक्रमे निर्धारित अव्ययपदानां हिन्दीभाषायाम् अर्थम् लिखित्वा तेषाम् वाक्यप्रयोगं कुरुत।

अव्ययपदानि -

इव, उच्यैः, एव, नूनम्, इतस्ततः, विना, तु, सहसा वृथा, शनैः, इति, मा, यत्, अथ, सम्प्रति, इदानीम्, अद्युना, थावत्-तावत्, वहिः, कदापि, तु, य, अपि, पुरा, अत्र, तत्र, यथा-तथा, कदा, उद्य, स्वः, परस्वः, द्यः, परद्यः, किमर्थम्, कुत्र, यत्र, सर्वत्र, यदि, तर्हिः, अतः,

(2) शब्दरूपाणि लिखत - (स्त्रीलिङ्ग) - लता, नदी, मातृ
(पुंलिङ्ग) - गुरु, पितृ, गो,
- अस्मद्, युस्मद्,

(3) धातुरूपाणि लिखत - (लट्, लृट्, लङ् लकार)
जम्, पठ्, लिख,

(4) मञ्जूषायां प्रदत्तशब्दानाम् सहायतया 'प्रातः भ्रमणम्' इति

(क) विषयम् अधिकृत्य पञ्चवाक्यानि संस्कृतेन लिखत,

प्रातःकालः, मनूः, पवनः, शीतलः, मनोहराणि, दृश्याणि, सर्वत्र, सर्वे, वृद्धाः, पुष्पाणि, बालकाः, उद्यानस्य, प्रकृतिवर्णनम्।

10. (i) Write the balanced chemical equation for the process of photosynthesis.
(ii) When do the desert plants take up carbon dioxide and perform photosynthesis?
11. Why do herbivores have longer, small intestine than carnivores?
12. State differences between arteries and veins.
13. In mammals and birds why is it necessary to separate oxygenated and de-oxygenated blood?
14. (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?
15. (a) Draw a diagram to show open stomatal pore and label on it:
(i) guard cells (ii) chloroplast
(b) State two functions of stomata. (c) How do guard cells regulate the opening and closing of stomatal pore?
- Q16. Name the following -
- (a) The process in plants that links light energy with chemical energy
(b) Organisms that can prepare their own food
(c) The cell organelle where photosynthesis occurs
(d) Cells that surround a stomatal pore
(e) Organisms that cannot prepare their own food
(f) An enzyme secreted from gastric glands in stomach that acts on proteins.
- Q17. Draw the labelled diagram of-
- (a) Human digestive system
(b) Human Respiratory system
(c) Human excretory system
(d) Heart

CASE BASED QUESTIONS-

Q18. When fats and oils are oxidized, they become rancid and their smell and taste change. Usually substances which prevent oxidation (antioxidants) are added to foods containing fats and oil. Keeping food in air tight containers helps to slow down oxidation.

- i) What do you mean by the word rancidity?
ii) Write any three methods to prevent rancidity. iii) What is the meaning of antioxidants. Give an example. iv) Which gas is filled in the chips packets to keep them crunchy?

PM SHRI KENDRIYA VIDYALAYA LOKRA (2026-27)

CLASS- X (A+B) SUB- SCIENCE

SUMMER VACATION HOMEWORK

WRITE AND LEARN ANSWER THE FOLLOWING QUESTIONS-

1. What happens chemically when quicklime is added to water filled in a bucket?

2 Write balanced chemical equations for the following reactions.

(i) Silver bromide on exposure to sunlight decomposes into silver and bromine,

(ii) Sodium metal reacts with water to form sodium hydroxide and hydrogen gas.

3. Why does the colour of copper sulphate solution change when an iron nail is dipped in it? Write two observations.

4. A zinc plate was put into a solution of copper sulphate kept in a glass container. It was found that blue colour of the solution gets fader and fader with the passage of time. After few days, when zinc plate was taken out of the solution, a number of holes were observed on it.

(i) State the reason for changes observed on the zinc plate. (ii)

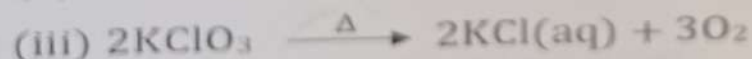
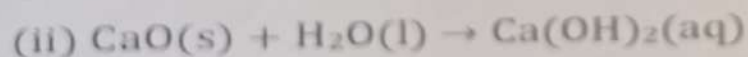
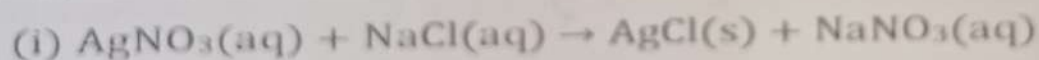
Write the chemical equation for the reaction involved.

5. When a solution of potassium iodide is added to a solution of lead nitrate in a test tube, a reaction takes place.

(a) What type of reaction is this?

(b) Write a balanced chemical equation to represent the above reaction.

6. (a) Classify the following reactions into different types.



7. (a) Why is respiration considered as an exothermic reaction?

(b) Define the terms oxidation and reduction with example.

(c) Identify the substance that is oxidised and reduced in the following reaction. $\text{CuO}(\text{s}) + \text{Zn}(\text{s}) \rightarrow \text{Cu}(\text{s}) + \text{ZnO}(\text{s})$

8. You might have noted that when copper powder is heated in a china dish, the surface of copper powder becomes coated with a black colour substance.

(i) How has this black coloured substance formed?

(ii) What is that black substance?

(iii) Write the chemical equation of the reaction that takes place.

9. Distinguish between a displacement reaction and a double displacement reaction.

Case 2: Power Sharing

"Power sharing is the essence of democracy."

Question: Why is power sharing important? What are its forms?

Section F: Map Work

- History (Europe Map)
- France
- Italy
- Germany
- Geography (India Map)
- Black Soil region
- Alluvial Soil region
- Laterite Soil Region

Section G: Creative Activity

Make ANY ONE:

- Poster on "Conservation of Resources"
- Chart on "Types of Power Sharing"
- Timeline chart of European nationalism

X

Section B: Very Short Answer (1 mark each)

1. Who was Giuseppe Mazzini?
2. As per the census 2011 which state has the highest literacy rate?
3. Define sustainable development.
4. What is power sharing?
5. Name one type of soil found in India.

Section C: Short Answer Questions (2-3 marks)

1. Write two features of the Treaty of Vienna.
2. Define Average Income.
3. Give two examples of renewable resources.
4. What is horizontal power sharing?
5. Mention two causes of soil erosion.

Section D: Long Answer Questions (5 marks)

1. Explain the process of German unification.
2. What are the main components of Human Development Index (HDI)?
3. Suggest some methods of land conservation.
4. Explain power sharing in Belgium.

Section E: Case Study Questions

Case 1: Development

"Different people have different development goals."

Question: Why do people have different goals? Give two examples.

कक्षा दसवीं

ग्रीष्मकालीन अवकाश

गृह कार्य

- A4 साइज शीट पर पांच विज्ञापन बनाओ और उन्हें सजायें।
- पांच अनौपचारिक तथा पांच औपचारिक पत्र कॉपी में लिखें।
- अर्थालंकार की परिभाषा तथा उसके भेदों की परिभाषा लिखते हुए सभी के 10-10 उदाहरण भी लिखें।
- सूरदास के पद
- राम लक्ष्मण परशुराम संवाद
- नेताजी का चश्मा
- बाल गोविंद भगत

चारों पाठ का सारांश कॉपी में लिखें।

- निम्न लिखित अनुच्छेदों को कॉपी में लिखें।

मोबाइल फ़ोन : सुखद व दुखद भी
विज्ञान की अद्भुत खोज
फ़ोनों की बदलती दुनिया में
संचार क्षेत्र में क्रांति
सस्ता और सुलभ साधन
लाभ और हानियाँ।

2. ग्लोबल वार्मिंग-मनुष्यता के लिए खतरा

- ग्लोबल वार्मिंग क्या है ?
- ग्लोबल वार्मिंग के कारण
- ग्लोबल वार्मिंग के प्रभाव
- समस्या का समाधान।

3. बच्चों की शिक्षा में माता-पिता की भूमिका

- शिक्षा और माता-पिता
- शिक्षा की महत्ता
- उत्तरदायित्व
- शिक्षाविहीन नर पशु समान।

4. भ्रष्टाचार का दानव

अथवा

भ्रष्टाचार से देश को मुक्त बनाएँ

- भ्रष्टाचार क्या है?
- देश के लिए घातक
- भ्रष्टाचार का दुष्प्रभाव
- लोगों की भूमिका।

5. मोबाइल फ़ोन : सुखद व दुखद भी

अथवा

विज्ञान की अद्भुत खोज : मोबाइल फ़ोन

विज्ञान की अद्भुत खोज
फ़ोनों की बदलती दुनिया में
संचार क्षेत्र में क्रांति
स्ता और सुलभ साधन
लाभ और हानियाँ।

Mathematics

X

- ① Do MT-1 questions in class work copy.
- ② Complete Ex:- 3.2. from NCERT.

OBJECTIVES

- ★ Strengthen conceptual clarity
- ★ Develop problem-solving skills
- ★ Improve logical reasoning
- ★ Apply maths in real-life situations



CLASS 10 - MATHEMATICS

SUMMER HOLIDAY HOMEWORK

MAY - JUNE 2026

Think • Solve • Analyse • Apply • Excel



SECTION A - REAL NUMBERS

1. Task 1: Concept Application

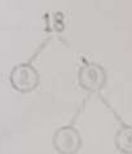
Solve problems based on

- ★ Euclid's Division Lemma
- ★ HCF & LCM

Include 5 real-life examples

$$\text{HCF}(12, 18) = 6$$

$$\text{LCM}(12, 18) = 36$$



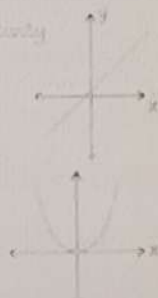
SECTION B - POLYNOMIALS

2. Task 2: Graph Activity

Draw graphs of

- ★ Linear polynomial
- ★ Quadratic polynomial

Observe the number of zeroes



SECTION C - LINEAR EQUATIONS IN TWO VARIABLES

3. Task 3: Real-World Problems

Solve 5 real-life problems

Examples

- ★ Cost related problems
- ★ Distance & speed problems
- ★ Mixture problems

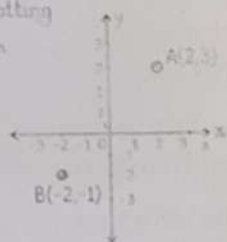


SECTION D - COORDINATE GEOMETRY

4. Task 4: Graph Plotting

Plot the given points on the graph and find

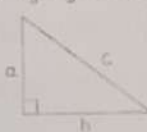
- ★ Distance between two points
- ★ Section formula



SECTION E - TRIANGLES

5. Task 5: Theorem-Based Questions

- Solve questions using
- ★ Similarity of triangles
- ★ Pythagoras theorem



In a right triangle,

$$c^2 = a^2 + b^2$$

SECTION F - TRIGONOMETRY

6. Task 6: Identity Practice

Prove any 5 trigonometric identities

7. Task 7: Real-Life Application

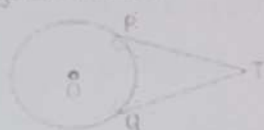
Solve height and distance problems



SECTION G - CIRCLES

8. Task 8: Tangent Problems

Solve 5 questions based on tangents to a circle



SECTION H - STATISTICS & PROBABILITY

Collect data (marks/expenses/heights etc.) and find

- ★ Mean
- ★ Median
- ★ Mode



Solve real-life probability questions



P(blue)

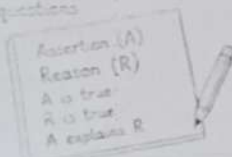
$$= \frac{\text{Number of blue balls}}{\text{Total number of balls}}$$



SECTION I - THINKING & ANALYSIS

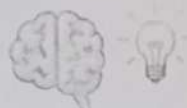
11. Task 11: Assertion-Reason

Create 5 Assertion-Reason type questions



12. Task 12: HOTS Questions

Solve higher-order thinking skill (HOTS) questions

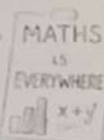


SECTION J - CREATIVE & APPLICATION

13. Task 13: Maths Poster

Make a poster on any one topic

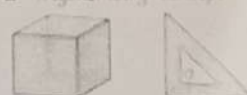
- ★ Maths in Daily Life
- ★ Importance of Graphs



14. Task 14: Model Making

Make a model on any one

- ★ 3D shapes
- ★ Trigonometry concept



SECTION K - PROJECT WORK

15. Task 15: Maths Portfolio

Prepare a portfolio including

- ★ Important formulas & theorems
- ★ Graphs & charts
- ★ Case studies & real-life applications
- ★ Activities & worksheets



16. Task 16: Daily Practice Journal

Write daily

- ★ One problem solved
- ★ One concept learned
- ★ One doubt/question



The only way to learn mathematics is to do mathematics

17. Task 17: Submission Guidelines

- ★ Plan your work with organization and neatness
- ★ Show all steps clearly
- ★ Use diagrams and graphs neatly
- ★ Focus on concept & application
- ★ Submit after the holidays



18. Task 18: Why Study Mathematics?

- ★ Prepares you for career choices (STEM pattern)
- ★ Builds strong conceptual understanding
- ★ Develops logical and analytical thinking
- ★ Applies maths in real-life situations
- ★ Boosts confidence in problem-solving



19. Task 19: Remember

- ★ Practice daily
- ★ Be consistent
- ★ Stay curious
- ★ Believe in yourself

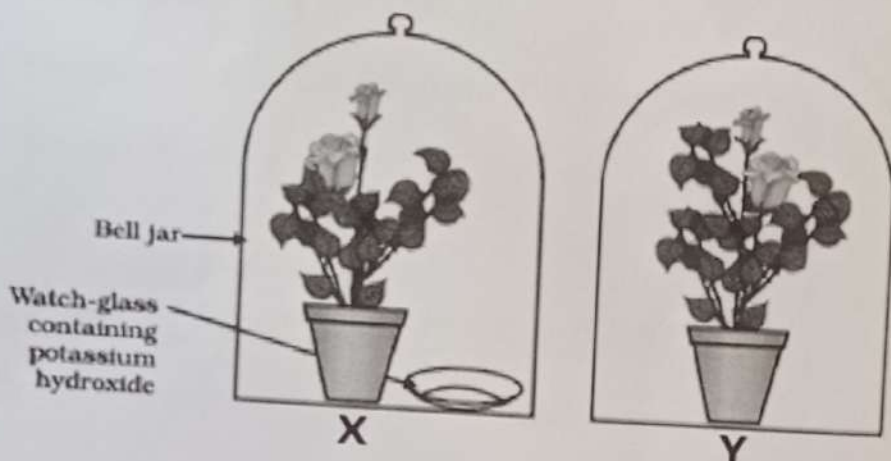


X

Science-3

v) Write any traditional method used by our ancestors to prevent rancidity.

Q20. The Figure shown below represents an activity to prove the requirements for photosynthesis. During this activity, two healthy potted plants were kept in the dark for 72 hours. After 72 hours, KOH is kept in the watch glass in setup X and not in setup Y. Both these setups are air tight and have been kept in light for 6 hours. Then, Iodine Test is performed with one leaf from each of the two plants X and Y.



1. This experimental set up is used to prove essentiality of which of the following requirements of photosynthesis?

- A. Chlorophyll B. Oxygen C. Carbon dioxide D. Sunlight

2. The function of KOH is to absorb-

- A. Oxygen. B. Carbon dioxide. C. Moisture. D. Sunlight.

3. Which of the following statements shows the correct results of Iodine Test performed on the leaf from plant X and Y respectively?

- A. Blue - black colour would be obtained on the leaf of plant X and no change in colour on leaf of plant Y.
 B. Blue - black colour would be obtained on the leaf of plant Y and no change in colour on leaf of plant X.
 C. Red colour would be obtained on the leaf of plant X and brown colour on the leaf of plant Y.
 D. Red colour would be obtained on the leaf of plant Y and brown colour on the leaf of plant X.

4. Which of the following steps can be followed for making the apparatus air tight?

- (i) placing the plants on glass plate ii. using a suction pump. iii. applying vaseline to seal the bottom of jar. iv. creating vacuum

OPTIONS - A. i and ii

B. ii. and ii

C. i. and iii

D. ii. and iv

----- X -----

गृह कार्य

- A4 साइज शीट पर पांच विज्ञापन बनाओ और उन्हें सजायें।
- पांच अनौपचारिक तथा पांच औपचारिक पत्र कॉपी में लिखें।
- अर्थालंकार की परिभाषा तथा उसके भेदों की परिभाषा लिखते हुए सभी के 10-10 उदाहरण भी लिखें।
- सूरदास के पद
- राम लक्ष्मण परशुराम संवाद
- नेताजी का चश्मा
- बाल गोविंद भगत

चारों पाठ का सारांश कॉपी में लिखें।

- निम्न लिखित अनुच्छेदों को कॉपी में लिखें।

मोबाइल फोन : सुखद व दुखद भी
विज्ञान की अद्भुत खोज
फोनों की बदलती दुनिया में
संचार क्षेत्र में क्रांति
सस्ता और सुलभ साधन
लाभ और हानियाँ।

2. ग्लोबल वार्मिंग-मनुष्यता के लिए खतरा

- ग्लोबल वार्मिंग क्या है ?
- ग्लोबल वार्मिंग के कारण
- ग्लोबल वार्मिंग के प्रभाव
- समस्या का समाधान।

3. बच्चों की शिक्षा में माता-पिता की भूमिका

- शिक्षा और माता-पिता
- शिक्षा की महता
- उत्तरदायित्व
- शिक्षाविहीन नर पशु समान।

4. भ्रष्टाचार का दानव

अथवा

भ्रष्टाचार से देश को मुक्त बनाएँ

- भ्रष्टाचार क्या है?
- देश के लिए घातक
- भ्रष्टाचार का दुष्प्रभाव
- लोगों की भूमिका।

5. मोबाइल फोन : सुखद व दुखद भी

अथवा

विज्ञान की अद्भुत खोज : मोबाइल फोन

विज्ञान की अद्भुत खोज
फोनों की बदलती दुनिया में
संचार क्षेत्र में क्रांति
स्ता और सुलभ साधन
लाभ और हानियाँ।

KENDRIYA VIDYALAYA LOKRA

HOLIDAY HOMEWORK

CLASS 10 (A+B)

Section A Reading

Read the chapter and write about the Characters and Themes.

First flight

Two stories about flying

Footprints without feet

The Thief's Story

Section B Writing

1. Convenience, variety, discounts and laziness are some of the reasons for the growing popularity of ordering food online. You are Santa / Sahil, a student residing at 98 Crystal Garden Apartment, Delhi. Compose a letter of about 120 words to the editor of the newspaper highlighting the adverse effect to take out orders online of eating home-cooked meals.
2. Write a diary entry about your most memorable day during your summer holidays.

Section C Grammar

Fill in the blanks with the correct form of the verbs given in brackets.

By the time we reached the station, the train _____ already _____.

(leave)

If she _____ harder, she would have passed the examination.

(study)

The students _____ quietly when the principal entered the classroom.

(work)

I _____ this novel for two weeks, but I still have not finished it.

(read)

They _____ dinner before the guests arrived. (prepare)

(prepare)

HOLIDAY HOME WORK

CHEMISTRY XII

Give reasons :

(a) Cooking is faster in pressure cooker than in an open pan.

(b) On mixing liquid X and liquid Y, volume of the resulting solution decreases. What type of deviation from Raoult's law is shown by the resulting solution? What change in temperature would you observe after mixing liquids X and Y?

2. Define Azeotrope. What type of Azeotrope is formed by negative deviation from Raoult's law? Give an example

3. What is meant by positive deviation from Raoult's law? Give an example. What type of azeotrope is formed by positive deviation? (2 Mark) (CBSE 2025 - 56/7/1)

4. Calculate the elevation of boiling point of a solution when 3 g of CaCl_2 (Molar mass = 111 g mol^{-1}) was dissolved in 260 g of water, assuming that CaCl_2 undergoes complete dissociation. (K_b for water = 0.52 K kg mol^{-1})

5. Liquids 'X' and 'Y' form an ideal solution. The vapour pressure of pure 'X' and pure 'Y' are 120 mm Hg and 160 mm Hg respectively. Calculate the vapour pressure of the solution containing equal moles of 'X' and 'Y'. (2 Mark) (CBSE 2025 - 56/5/1)

6. State Henry's law. Why are aquatic species more comfortable in cold water as compared to warm water? (2 Mark) (CBSE 2025 - 56/6/1)

7. A solution of glucose (molar mass = 180 g mol^{-1}) in water has a boiling point of 100.20°C. Calculate the freezing point of the same solution. Molal constants for water K_f and K_b are 1.86 K kg mol^{-1} and 0.512 K kg mol^{-1} respectively. (3 Mark) (CBSE 2025 - 56/1/1) Q.17 0.3 g of acetic acid (Molar mass = 60 g mol^{-1}) dissolved in 30 g of benzene shows a depression in freezing point equal to 0.45 °C. Calculate the percentage association of acid if it forms a dimer in the solution. (Given : K_f for benzene = 5.12 K kg mol^{-1}) (3 Mark) (CBSE 2025 - 56/7/1)

8. Shweta mixed two liquids A and B of 10 mL each. After mixing, the volume of the solution was found to be 20.2 mL.

(i) Why was there a volume change after mixing the liquids?

(ii) Will there be an increase or decrease of temperature after mixing?

(iii) Give one example for this type of solution.

9. (i) How does sprinkling of salt help in clearing the snow-covered roads in hilly areas? (ii) What happens when red blood cells are kept in 0.5% (mass/vol) NaCl solution? Justify your answer.

(iii) Write an application of reverse osmosis.

Physics holiday homework (Class-12)

A. Homework:

Design a security system for a museum using the concepts of electric fields and electrostatic sensors.

Instructions:

- Sketch your setup.
- Explain how electric fields will detect intruders.
- Mention materials, field lines, and working principles.

B. Homework:

A spaceship enters a region of space filled with electrostatic charges. As a physicist on board, how would you assess and deal with this situation?

Instructions:

- Describe the physical effects on the spaceship and instruments.
- Propose tools or methods to detect and map electric fields.
- Suggest safety measures or shield designs.

C. NCERT Questions of Ch-1, both solved and unsolved in homework copies.

D. Download last ten years board questions papers form CBSE website

E. Prepare one Investigatory Project accordingly with your roll no. on:

1. Electromagnetic Induction in Electric Generators
2. Working of Solar Panels Using Photoelectric Effect
3. Role of Semiconductors in Smartphones
4. Physics Behind Bluetooth and Wi-Fi Communication
5. Applications of Electromagnetic Waves in Medicine
6. Working Principle of MRI Machines
7. Physics Behind Wireless Charging Technology
8. Working of CT Scan and X-Ray Machines
9. Physics Behind Noise-Cancelling Headphones
10. Physics of Touchscreen Technology

11. Working of Metal Detectors Using Electromagnetic Induction
12. Physics of satellite communication
13. Physics Behind Induction Cooktops
14. Applications of Eddy Currents in Daily Life
15. Working of Automatic Street Lights Using LDR
16. Physics Behind Biometric Fingerprint Sensors
17. Study of Transformer Losses in Power Transmission
18. Physics of 5G Communication Technology
19. Working Principle of ECG Machines
20. Semiconductor Devices Used in Modern Electronics
21. Physics Behind Rechargeable Batteries
22. Fibre Optic Communication in Internet Systems
23. Role of Polarisation in 3D Glasses
24. Physics Behind Holography
25. Applications of Nuclear Radiation in Cancer Therapy

PM SHRI KENDRIYA VIDYALAYA LOKRA
SUMMER VACATION HOME WORK 2025
CLASS- XII A BIOLOGY

Q.1 "Cells of the tapetum of a microsporangium are usually multinucleate".

Which of the following can be a reason for the tapetal cells to become multinucleate?

- A. They fuse with the polar cells of the megasporangium.
- B. They do not undergo karyokinesis.
- C. They do not undergo cytokinesis.
- D. They do not undergo mitosis.

Q.2 Which of the following is TRUE for a flower giving rise to a false fruit in apple?

- A. The ovary is infertile.
- B. The ovary does not undergo fertilisation.
- C. The thalamus undergoes fertilisation.
- D. The thalamus forms a part of the fruit.

Q.3 Assertion (A): Endosperm in a flowering plant is formed before the formation of the embryo.
Reason (R): The endosperm provides food to the developing embryo. Which of the following is correct?

- A. Both A and R are true, but R is not the correct explanation of the assertion
- B. Both A and R are true, and R is the correct explanation of the assertion.
- C. A is true, but R is false.
- D. A is false, but R is true

Q.4 Organisms possessing identical sex chromosomes are referred to as the homogametic sex. Organisms with different sex chromosomes are known as the heterogametic sex. Which of the following is CORRECT about humans?

- A. Both males and females are homogametic.
- B. Both males and females are heterogametic.
- C. Males are homogametic while females are heterogametic.
- D. Males are heterogametic while females are homogametic.

Q.5 Globozoospermia is a condition where sperms have a characteristic round head lacking the acrosome. Which of the following functions will a sperm NOT be able to do because of the above condition?

- A. Enter the cervix
- B. Penetrate the ovum
- C. Leave the ejaculatory duct
- D. Swim to the Fallopian tube

Q.6 Which of these statements about the female reproductive system is FALSE?

- A. Menarche marks the initiation of oogenesis.
- B. The germ layers start forming after implantation.
- C. The oocyte completes meiosis after the entry of sperm.
- D. Ovulation and menstruation stop permanently after menopause.

Q.7 Which of these hormones would be detected in both a pregnant female and a female who is not pregnant?

- A. Relaxin
- B. Prolactin
- C. Progesterone
- D. Human chorionic gonadotropin

Q.8 Which of the following statements describes the difference between placenta and umbilical cord?

- A. The placenta secretes hormones whereas the umbilical cord does not.
- B. The placenta persists after pregnancy while the umbilical cord is expelled.
- C. The placenta is lined with veins and arteries while the umbilical cord is not.
- D. The placenta interlocks with foetal tissues whereas the umbilical cord interlocks with the uterine tissue.

Q.9 Some events of pregnancy in humans are written below in a sequence.

- (i) complete development of foetus
- (ii) uterine contraction
- (iii) dilation of cervix
- (iv) delivery of the baby
- (v) lactation

Between which of the following events does the shedding of the placenta happen?

- A. (i) and (ii)
- B. (ii) and (iii)
- C. (iii) and (iv)
- D. (iv) and (v)

Q.10 Which of the following methods of assisted reproductive technologies (ART) can be a more viable process of pregnancy in a woman after menopause?

- A. Gamete intra fallopian transfer
- B. Zygote intra fallopian transfer
- C. Artificial insemination
- D. Pregnancy is not possible after menopause

Q.11 The exine layer of pollen grains contains sporopollenin which is a highly resistant chemical. Sporopollenin allows pollen grains to be well-preserved as fossils.

- (a) Can fossilised pollens fertilise an ovum of the same species in the present day? Justify.
- (b) How do scientists preserve pollen grains for later use?

Q.12 State ONE characteristic of a pollen grain that can help students identify:

- (a) a water-pollinated pollen grain (b) an animal-pollinated pollen grain.

Q.13 "Continued self-pollination results in inbreeding depression".

- (a) Mention ONE impact of inbreeding depression on the upcoming generations in a farmland.
- (b) State ONE way in which cross-pollination helps in avoiding inbreeding depression.

Q.14 Bees transfer pollen from the younger flowers at the top of a plant to the older flowers at the base. Is this an example of self-pollination or cross-pollination? Justify.

Q.15 A farmer sowed tomatoes (plants with both sexes in the same flower) and bitter melon (plants with both sexes in different flowers on the same plant) on his farmland.

- (a) To ensure cross-pollination, what should the farmer do in each of the cases?
- (b) If the male flowers from the tomato plant are removed and pollen is dusted, can the flower grow into a fruit? Why or why not?

Q.16 Hormones play a crucial role in maintaining balance in living systems through feedback loops. This means that release of a hormone regulates (increases/decreases) its further release in the body. One such example is oxytocin in the female reproductive system.

- (a) Explain the feedback loop for oxytocin by answering the following questions.

- (i) From where is oxytocin released?
- (ii) At what stage of pregnancy do oxytocin levels peak?
- (b) Is the feedback mechanism for oxytocin positive or negative in nature? Justify.

Q.17 A period tracking app is a mobile application that maintains information such as date of onset of menstruation, ovulation, duration of menstrual cycle, etc. A female who got her period on January 22

is using the period tracking app. Based on your understanding of the menstrual cycle, what will be the tentative date of ovulation estimated by the app? Provide a reason.

Q.18 Polyspermy is an extremely rare condition in which an ovum is fertilised by more than one sperm.

(a) How many chromosomes will a zygote contain if 2 sperms fertilised an ovum?

(b) How is polyspermy prevented in humans?

Q.19 Read the two statements below and answer the questions that follow:

Statement I: Female P has been a surrogate mother once.

Statement II: Female Q is a national-level swimmer.

(a) Is it correct to say that the hymen is DEFINITELY broken in both females P and Q?

(b) Give a reason to support your answers to (a).

Q.20 Cryptorchidism is a condition in which one or both of the testes fail to descend from the abdomen.

(i) If cryptorchidism of both testes is left untreated, would it lead to infertility? Give reason.

(ii) Can a male with cryptorchidism of only one testis produce sperm? Give reason.

Q.21 Orchidopexy is a surgical procedure for treating cryptorchidism.

(i) Name the part to which the testes are moved outside the abdomen.

(ii) Write the exact temperature range of the testes after orchidopexy.

Q.22 Answer the questions below.

(a) Name ANY TWO reproductive processes blocked by the oral pill.

(b) A patient X took the pills as instructed for one month. Why is there a gap of 7 days after 21st day indicated on the pack?

(c) Patient X suspects that her partner is suffering from hepatitis-B. In such a situation:

(i) Would you recommend her to use oral pills as the ONLY contraceptive? Support your answer with a reason.

(ii) What is an alternative contraceptive that can be suggested to patient X and her partner?

Q.23 Answer the following questions:

(i) Based on the site of fertilisation, state one difference between Intra-Uterine Transfer (IUT) of embryo and Intra-Uterine Insemination (IUI).

(ii) All Assisted Reproductive Technologies (ARTs) require the extraction of the female gamete from the ovary. Is this statement TRUE or FALSE? Give a reason.

(iii) State one characteristic each of the donor and recipient's reproductive system that enables them to participate in Gamete Intra Fallopian Transfer (GIFT).

OTHER WORKS:

01. INVESTIGATORY PROJECT

02. PRACTICAL FILE WRITTEN WORK

Let $f: A \rightarrow B$ be defined by $f(x) = \frac{x-2}{x-3}$, where $A = \mathbb{R} - \{3\}$ and $B = \mathbb{R} - \{1\}$.

Discuss the bijectivity of the function.

22. If $A = \begin{bmatrix} 2 & 3 \\ -1 & 2 \end{bmatrix}$, then show that $A^2 - 4A + 7I = 0$.

26. (a) Show that the function $f: \mathbb{R} \rightarrow \mathbb{R}$ defined by $f(x) = 4x^3 - 5$, $\forall x \in \mathbb{R}$ is one-one and onto.

OR

(b) Let R be a relation defined on a set N of natural numbers such that $R = \{(x, y) : xy \text{ is a square of a natural number, } x, y \in N\}$. Determine if the relation R is an equivalence relation.

21. If $A = \begin{bmatrix} 2 & -2 \\ -2 & 2 \end{bmatrix}$ and $A^2 = kA$, then find the value of k .

22. (a) Simplify $\sin^{-1} \left(\frac{x}{\sqrt{1+x^2}} \right)$.

OR

(b) Find domain of $\sin^{-1} \sqrt{x-1}$.

28. (a) If $f: \mathbb{R}^+ \rightarrow \mathbb{R}$ is defined as $f(x) = \log_a x$ ($a > 0$ and $a \neq 1$), prove that f is a bijection.

($\mathbb{R}^+$ is a set of all positive real numbers.)

OR

(b) Let $A = \{1, 2, 3\}$ and $B = \{4, 5, 6\}$. A relation R from A to B is defined as $R = \{(x, y) : x + y = 6, x \in A, y \in B\}$.

(i) Write all elements of R .

(ii) Is R a function? Justify.

(iii) Determine domain and range of R .

35. If A is a 3×3 invertible matrix, show that for any scalar $k \neq 0$, $(kA)^{-1} = \frac{1}{k}A^{-1}$. Hence calculate $(3A)^{-1}$, where

$$A = \begin{bmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{bmatrix}.$$

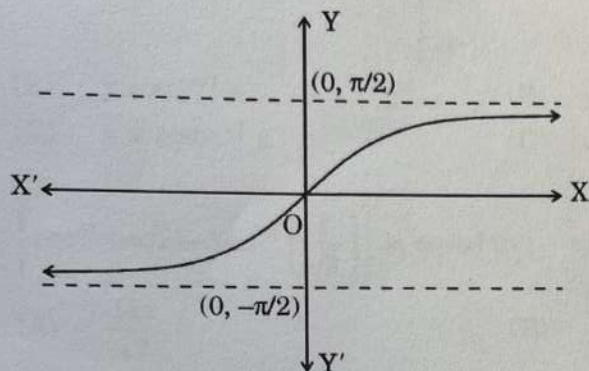
What is the total number of possible matrices of order 3×3 with each entry as $\sqrt{2}$ or $\sqrt{3}$?

- (A) 9
(C) 615
(B) 512
(D) 64

4. The matrix $A = \begin{bmatrix} \sqrt{3} & 0 & 0 \\ 0 & \sqrt{2} & 0 \\ 0 & 0 & \sqrt{5} \end{bmatrix}$ is a/an :

- (A) scalar matrix
(C) null matrix
(B) identity matrix
(D) symmetric matrix

1. The given graph illustrates :



- (A) $y = \tan^{-1} x$
(C) $y = \cot^{-1} x$
(B) $y = \operatorname{cosec}^{-1} x$
(D) $y = \sec^{-1} x$

2. Domain of $f(x) = \cos^{-1} x + \sin x$ is :

- (A) $\mathbb{R}$
(C) $[-1, 1]$
(B) $(-1, 1)$
(D) ϕ

2. If $A = \begin{bmatrix} 0 & 0 & -5 \\ 0 & 3 & 0 \\ 4 \cdot 3 & 0 & 0 \end{bmatrix}$, then A is a :

- (A) skew-symmetric matrix
(C) diagonal matrix
(B) scalar matrix
(D) square matrix

3. If $A = \begin{bmatrix} x & 0 & m \\ y & z & 0 \\ 0 & 0 & 6 \end{bmatrix} = 6I$, where I is a unit matrix, then $x + y + z + m$

is equal to

- (A) 18
(C) 6
(B) 12
(D) 2

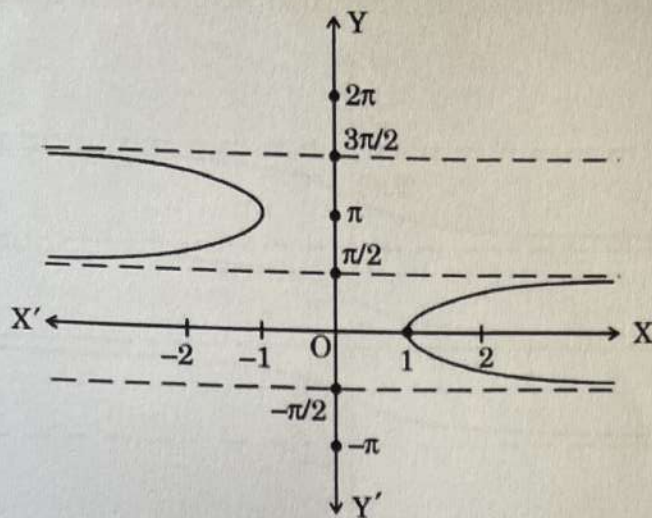
4. If $B = \begin{bmatrix} 23 & 41 & 57 \\ 53 & 64 \\ 75 & 86 \end{bmatrix}$, then the order of B is :

- (A) 3×2
(C) 1×3
(B) 2×2
(D) 1×2

5. If A and B are square matrices of the same order, then $(A - B)^2 = ?$

- (A) $A^2 - 2AB + B^2$
(C) $A^2 - 2BA + B^2$
(B) $A^2 - AB - BA + B^2$
(D) $A^2 - AB + BA + B^2$

The graph shown below depicts :



5/23

- (A) $y = \sec^{-1} x$ (B) $y = \sec x$
 (C) $y = \operatorname{cosec}^{-1} x$ (D) $y = \operatorname{cosec} x$

4. $\left[\sec^{-1}(-\sqrt{2}) - \tan^{-1}\left(\frac{1}{\sqrt{3}}\right) \right]$ is equal to :

- (A) $\frac{11\pi}{12}$ (B) $\frac{5\pi}{12}$
 (C) $-\frac{5\pi}{12}$ (D) $\frac{7\pi}{12}$

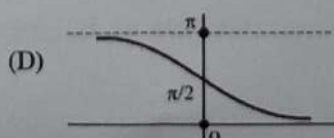
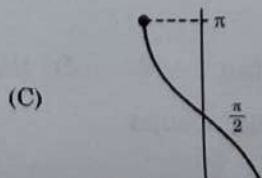
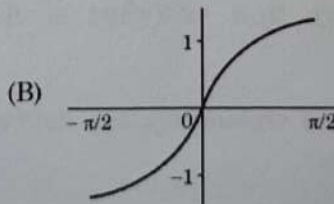
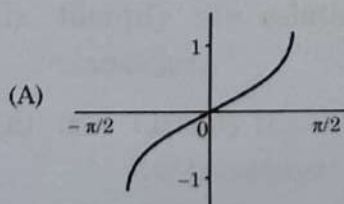
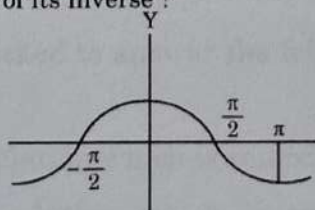
5. Let both AB' and $B'A$ be defined for matrices A and B. If order of A is $n \times m$, then the order of B is :

- (A) $n \times n$ (B) $n \times m$
 (C) $m \times m$ (D) $m \times n$

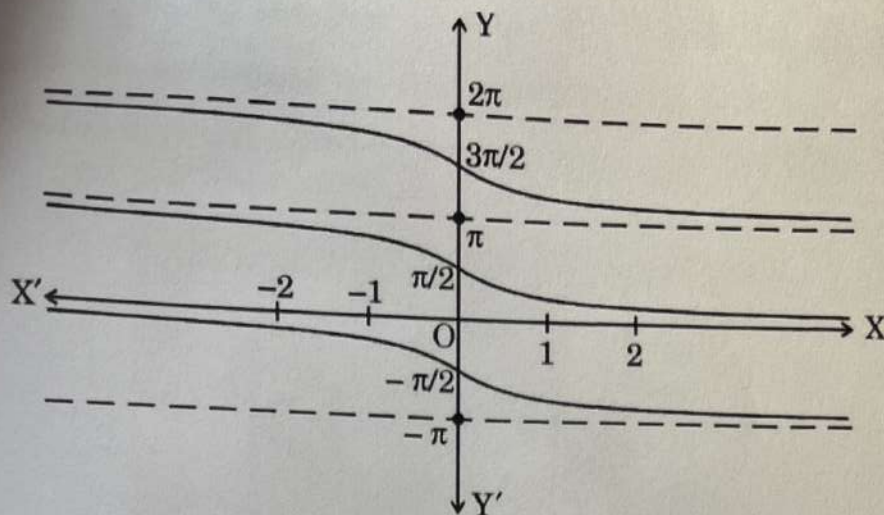
6. Sum of two skew-symmetric matrices of same order is always a/an :

- (A) skew-symmetric matrix
 (B) symmetric matrix
 (C) null matrix
 (D) identity matrix

5. The graph of a trigonometric function is as shown. Which of the following will represent graph of its inverse ?



The graph shown below depicts :



- (A) $y = \cot x$ (B) $y = \cot^{-1} x$
 (C) $y = \tan x$ (D) $y = \tan^{-1} x$

4. Let both AB' and $B'A$ be defined for matrices A and B. If order of A is $n \times m$, then the order of B is :

- (A) $n \times n$ (B) $n \times m$
 (C) $m \times m$ (D) $m \times n$

38. A class-room teacher is keen to assess the learning of her students the concept of "relations" taught to them. She writes the following five relations each defined on the set $A = \{1, 2, 3\}$:

$$R_1 = \{(2, 3), (3, 2)\}$$

$$R_2 = \{(1, 2), (1, 3), (3, 2)\}$$

$$R_3 = \{(1, 2), (2, 1), (1, 1)\}$$

$$R_4 = \{(1, 1), (1, 2), (3, 3), (2, 2)\}$$

$$R_5 = \{(1, 1), (1, 2), (3, 3), (2, 2), (2, 1), (2, 3), (3, 2)\}$$

The students are asked to answer the following questions about the above relations :

- (i) Identify the relation which is reflexive, transitive but not symmetric.
- (ii) Identify the relation which is reflexive and symmetric but not transitive.
- (iii) (a) Identify the relations which are symmetric but neither reflexive nor transitive.

OR

- (iii) (b) What pairs should be added to the relation R_2 to make it an equivalence relation ?

school is organizing a debate competition with participants as speakers $S = \{S_1, S_2, S_3, S_4\}$ and these are judged by judges $J = \{J_1, J_2, J_3\}$. Each speaker can be assigned one judge. Let R be a relation from set S to J defined as $R = \{(x, y) : \text{speaker } x \text{ is judged by judge } y, x \in S, y \in J\}$.



Based on the above, answer the following :

- (i) How many relations can be there from S to J ? 1
- (ii) A student identifies a function from S to J as $f = \{(S_1, J_1), (S_2, J_2), (S_3, J_2), (S_4, J_3)\}$ Check if it is bijective. 1
- (iii) (a) How many one-one functions can be there from set S to set J ? 2

OR

- (iii) (b) Another student considers a relation $R_1 = \{(S_1, S_2), (S_2, S_4)\}$ in set S . Write minimum ordered pairs to be included in R_1 so that R_1 is reflexive but not symmetric. 2

38. Rajesh, a student of Class-XII, visited an exhibition with his family. There he saw a huge swing and found that it traced the path of a parabola $y = x^2$. The following questions came to his mind. Answer the questions :

- (i) Let $f : \mathbb{R} \rightarrow \mathbb{R}$ be a function defined as $f(x) = x^2$. Find whether f is one-one function.
- (ii) Let $f : \mathbb{R} \rightarrow \mathbb{R}$ be defined as $f(x) = x^2$. Find whether f is an onto function.
- (iii) (a) Let $f : \mathbb{N} \rightarrow \mathbb{N}$ be defined as $f(x) = x^2$. Find whether f is one-one function. Also, find if it is an onto function.

OR

- (iii) (b) Let $f : \mathbb{N} \rightarrow \{1, 4, 9, 16, \dots\}$ defined as $f(x) = x^2$, find where f is one-one function. Also, find if it is an onto function.

Summer Vacation Holiday Homework -2026-27

Class XII B

Subject: Geography

1. "Human geography is the study of changing relationship between unresting man and unstable earth." This dynamic concept of Human Geography was given by whom?
2. The subject-matter of settlement geography has been taken from.....
3. "Man is influenced by nature and nature imposes restrictions on the extent of human activities." This concept is known as.....
4. The concept of neo-determinism was propounded by.....
5. Which school of thought is concerned with different aspects of social well-being of people?
6. What are three important components of population change?
7. The people who move out of a place are known as.....
8. Name any four pull factors of migration.
9. The idea that preventive checks are better than physical checks was given by.....
10. Which stage of Demographic Transition Theory depicts population explosion ?

Neha
7/05/26

PM Shri Kendriya Vidyalaya Lokra

Summer Break Homework 2026-27

Subject -History. Class XII

Section A – Very Short Answer

Q1.What is kinship?

Q2.What is endogamy?

Section B – Short Answer

Q3.Explain the meaning of patriliney.

Q4.Write any three rules of the varna system.

Section C – Long Answer

Q5.Illustrate the outcaste Chaldalas

Source-Based Question

Q6.Read about the story of Draupadi's marriage and answer:

(a)What does it show about marriage practices?

(b)How was it different from common rules?

Case Study (Compulsory)

Q7.Write 2–3 pages on any one:

Changes in caste system over time

Activity / Project Work

Q8Choose any one:

Make a chart on:

Varna System (Brahmin, Kshatriya, Vaishya, Shudra)

वर्षाकालीन अवस्था। ग्रीष्म

कक्षा - 12 (असस)

विषय - हिन्दी

* पहन एवं स्मृति -

- ① सुनिदिन एक पाठ में (पाठ्यपुस्तक आरोह) किसान गाथा-2 है)
- ② कविता शब्दों की सूची बनाए - 10 शब्द चुन।

लेखन कौशल :-

- ① आरोह गाथा-2 के गद्य पाठ - (अभिलेखन) आसार ¹ देखने ² करने से पानी दे पद्य पाठ - (1) श्रमपरिचय (2) पलंग (3) कविता के कटने, वाक्यस्थिती पर
- ② इन पाठों के पिछली बोर्ड परीक्षाओं में आए उन लिखिए।
- ③ अभिव्यक्ति और माध्यम - ① विभिन्न माध्यमों के लिए लेखन।
② परकाशीय लेखन के विभिन्न रूप और लेखन उपक्रिया

के पाठों को हिन्दी की कक्षा में लिखिए।

स्वनात्मक अनिवार्यता :-

- ① पलंग कविता को स्वनात्मक ढंग से लिखिए व ¹ आइजि नेपर पर चित्रित लिखिए।
- ② नर और अष्टाश्विन विषयों पर लेखन कीजिए - कोई 5 विषय पर
- ③ आत्मपरिचय, अभिलेख, पलंग, अभिव्यक्ति और माध्यम के - 3, 4 पाठों की सुंदर फाइन (प्रोजेक्ट) प्रयास कीजिए।

पीएम श्री केन्द्रीय विद्यालय लोकरा



PM SHRI KENDRIYA VIDYALAYA, LOKRA

Dighali Gaon, P.O. : Lokra, District : Sonitpur, Assam

अतिरिक्त उत्तर पुस्तिकाओं की संख्या / SUPPLEMENTARY ANSWER BOOK NO.

छात्र का नाम

अनुक्रमांक

कक्षा

अनुभाग

Page 4

Name of Student

Roll No

Class

Section

विषय

हस्ताक्षर कक्ष निरीक्षक

Subject

Sing. of Invigilator

कक्षा - 7 (B)

विषय - हिन्दी

प्रश्नमाला अवकाश गुरुकुल

2026-27

① परीक्षा कार्य :-

पाठ्य - पुस्तक 5 पाठ पढ़ें और प्रत्येक पाठ का आठ एक पंक्ति लिखें ।

② लेखन कार्य :- ① पञ्चदश शब्दों का प्रयोग ।

② यदि मैं शिक्षक होता ।

③ अनुशासन का महत्व - परीक्षा लिखिए ।

③ रचनात्मक कार्य :-

पौष्टिक बनार - ① ~~पौष्टिक~~ पौष्टिक आहार की प्राकृतिक संपदा

② माँ की स्तनपान

④ भाषा कार्य :- ① संज्ञा

② सर्वनाम

③ विशेषण

के दोनों के नाम व 5-5 उदाहरण लिखिए ।

Summer Vacation Holiday Homework -2026-27

Class XII (A+B+C)

Subject: English

Note-

- 1) To Be Done in a practical copy.
- 2) English practical copy needs to be maintained till the end of the session.
- 3) Your English practical notebook will be seen as your record.
- 4) You will be awarded based on your work.

Question's

1. The water supply will be suspended for eight hours (10 am to 6 pm) on 6th of March for cleaning of the water tank. Write a notice in about 50 words advising the residents to store water for a day. You are Karan Kumar/Karuna Bajaj, Secretary, Janata Group Housing Society, Palam Vihar, Kurnool.
2. You are Asma/Ashish, the head girl/boy of XYZ international school. Your school is going to publish the annual magazine next month. Write a notice for the notice board of your school inviting students to submit write-ups.
3. You are Faiz/Falak Mazumdar living at 39, Udampur Colony, Shimla. You decide to hold a dinner party to congratulate your grandparents on their golden wedding anniversary. Draft a formal invitation in not more than 50 words to all family members to attend a grand dinner at home.
4. Write an invitation in not more than 50 words to your friend Rameshwari to spend her winter break with you in Mumbai. You are Puja/Puneet of 25, M.G. Road, Mumbai.
5. Write articles on the following topics (Word-limit 150- 200).
 - a. My vision of future India
 - b. Digital education in India.
 - c. Women safety in India.
 - d. 50-years of Earth Day
6. Complete all the pending work during this summer vacation.

14.11.21

CLASS - 12, SUB - ECONOMICS

(C)

- Q1. Describe the circular flow of income in a two-Sector economy.
- Q2. Differentiate between Microeconomics and Macroeconomics.
- Q3. Distinguish between Intermediate product and final product, giving suitable examples in support of your answer.
- Q4. Discuss the concept of factor income and transfer income.
- Q5. Distinguish between Domestic product and National product by giving suitable example.
- Q6. Calculate Subsidies.
- (i) GDP at FC $\rightarrow 55,000$ (iv) NNP at MP $\rightarrow 55,500$
- (ii) Indirect Tax $\rightarrow 4,400$ (v) Depreciation $\rightarrow 2,500$
- (iii) NFIA $\rightarrow 700$
- Q7. Calculate National Income by Income and Expenditure Method.
- (i) COE $\rightarrow 250$ (ix) Change in Stock $\rightarrow 20$
- (ii) Imports $\rightarrow 20$ (x) Subsidies $\rightarrow 20$
- (iii) Mixed income of self employed $\rightarrow 50$ (xi) Rent $\rightarrow 180$
- (iv) Gross fixed capital formation $\rightarrow 120$ (xii) Interest $\rightarrow 200$
- (v) Private final consumption expenditure $\rightarrow 550$ (xiii) Profit $\rightarrow 50$
- (vi) Consumption of fixed capital $\rightarrow 10$ (xiv) Export $\rightarrow 10$
- (vii) MFA $\rightarrow 20$ (xv) Govt Final consumption exp $\rightarrow 60$
- (viii) Indirect Tax $\rightarrow 100$

HOLIDAY HOME WORK

CHEMISTRY XII

Give reasons :

(a) Cooking is faster in pressure cooker than in an open pan.

(b) On mixing liquid X and liquid Y, volume of the resulting solution decreases. What type of deviation from Raoult's law is shown by the resulting solution? What change in temperature would you observe after mixing liquids X and Y?

2. Define Azeotrope. What type of Azeotrope is formed by negative deviation from Raoult's law? Give an example

3. What is meant by positive deviation from Raoult's law? Give an example. What type of azeotrope is formed by positive deviation? (2 Mark) (CBSE 2025 - 56/7/1)

4. Calculate the elevation of boiling point of a solution when 3 g of CaCl_2 (Molar mass = 111 g mol^{-1}) was dissolved in 260 g of water, assuming that CaCl_2 undergoes complete dissociation. (K_b for water = 0.52 K kg mol^{-1})

5. Liquids 'X' and 'Y' form an ideal solution. The vapour pressure of pure 'X' and pure 'Y' are 120 mm Hg and 160 mm Hg respectively. Calculate the vapour pressure of the solution containing equal moles of 'X' and 'Y'. (2 Mark) (CBSE 2025 - 56/5/1)

6. State Henry's law. Why are aquatic species more comfortable in cold water as compared to warm water? (2 Mark) (CBSE 2025 - 56/6/1)

7. A solution of glucose (molar mass = 180 g mol^{-1}) in water has a boiling point of 100.20°C. Calculate the freezing point of the same solution. Molal constants for water K_f and K_b are 1.86 K kg mol^{-1} and 0.512 K kg mol^{-1} respectively. (3 Mark) (CBSE 2025 - 56/1/1) Q.17 0.3 g of acetic acid (Molar mass = 60 g mol^{-1}) dissolved in 30 g of benzene shows a depression in freezing point equal to 0.45 °C. Calculate the percentage association of acid if it forms a dimer in the solution. (Given : K_f for benzene = 5.12 K kg mol^{-1}) (3 Mark) (CBSE 2025 - 56/7/1)

8. Shweta mixed two liquids A and B of 10 mL each. After mixing, the volume of the solution was found to be 20.2 mL.

(i) Why was there a volume change after mixing the liquids?

(ii) Will there be an increase or decrease of temperature after mixing?

(iii) Give one example for this type of solution.

9. (i) How does sprinkling of salt help in clearing the snow-covered roads in hilly areas? (ii) What happens when red blood cells are kept in 0.5% (mass/vol) NaCl solution? Justify your answer.

(iii) Write an application of reverse osmosis.

Physics holiday homework (Class-12)

A. Homework:

Design a security system for a museum using the concepts of electric fields and electrostatic sensors.

Instructions:

- Sketch your setup.
- Explain how electric fields will detect intruders.
- Mention materials, field lines, and working principles.

B. Homework:

A spaceship enters a region of space filled with electrostatic charges. As a physicist on board, how would you assess and deal with this situation?

Instructions:

- Describe the physical effects on the spaceship and instruments.
- Propose tools or methods to detect and map electric fields.
- Suggest safety measures or shield designs.

C. NCERT Questions of Ch-1, both solved and unsolved in homework copies.

D. Download last ten years board questions papers form CBSE website

E. Prepare one Investigatory Project accordingly with your roll no. on:

1. Electromagnetic Induction in Electric Generators
2. Working of Solar Panels Using Photoelectric Effect
3. Role of Semiconductors in Smartphones
4. Physics Behind Bluetooth and Wi-Fi Communication
5. Applications of Electromagnetic Waves in Medicine
6. Working Principle of MRI Machines
7. Physics Behind Wireless Charging Technology
8. Working of CT Scan and X-Ray Machines
9. Physics Behind Noise-Cancelling Headphones
10. Physics of Touchscreen Technology

11. Working of Metal Detectors Using Electromagnetic Induction
12. Physics of satellite communication
13. Physics Behind Induction Cooktops
14. Applications of Eddy Currents in Daily Life
15. Working of Automatic Street Lights Using LDR
16. Physics Behind Biometric Fingerprint Sensors
17. Study of Transformer Losses in Power Transmission
18. Physics of 5G Communication Technology
19. Working Principle of ECG Machines
20. Semiconductor Devices Used in Modern Electronics
21. Physics Behind Rechargeable Batteries
22. Fibre Optic Communication in Internet Systems
23. Role of Polarisation in 3D Glasses
24. Physics Behind Holography
25. Applications of Nuclear Radiation in Cancer Therapy

PM SHRI KENDRIYA VIDYALAYA LOKRA
SUMMER VACATION HOME WORK 2025
CLASS- XII A BIOLOGY

Q.1 "Cells of the tapetum of a microsporangium are usually multinucleate".

Which of the following can be a reason for the tapetal cells to become multinucleate?

- A. They fuse with the polar cells of the megasporangium.
- B. They do not undergo karyokinesis.
- C. They do not undergo cytokinesis.
- D. They do not undergo mitosis.

Q.2 Which of the following is TRUE for a flower giving rise to a false fruit in apple?

- A. The ovary is infertile.
- B. The ovary does not undergo fertilisation.
- C. The thalamus undergoes fertilisation.
- D. The thalamus forms a part of the fruit.

Q.3 Assertion (A): Endosperm in a flowering plant is formed before the formation of the embryo.
Reason (R): The endosperm provides food to the developing embryo. Which of the following is correct?

- A. Both A and R are true, but R is not the correct explanation of the assertion
- B. Both A and R are true, and R is the correct explanation of the assertion.
- C. A is true, but R is false.
- D. A is false, but R is true

Q.4 Organisms possessing identical sex chromosomes are referred to as the homogametic sex. Organisms with different sex chromosomes are known as the heterogametic sex. Which of the following is CORRECT about humans?

- A. Both males and females are homogametic.
- B. Both males and females are heterogametic.
- C. Males are homogametic while females are heterogametic.
- D. Males are heterogametic while females are homogametic.

Q.5 Globozoospermia is a condition where sperms have a characteristic round head lacking the acrosome. Which of the following functions will a sperm NOT be able to do because of the above condition?

- A. Enter the cervix
- B. Penetrate the ovum
- C. Leave the ejaculatory duct
- D. Swim to the Fallopian tube

Q.6 Which of these statements about the female reproductive system is FALSE?

- A. Menarche marks the initiation of oogenesis.
- B. The germ layers start forming after implantation.
- C. The oocyte completes meiosis after the entry of sperm.
- D. Ovulation and menstruation stop permanently after menopause.

Q.7 Which of these hormones would be detected in both a pregnant female and a female who is not pregnant?

- A. Relaxin
- B. Prolactin
- C. Progesterone
- D. Human chorionic gonadotropin

Q.8 Which of the following statements describes the difference between placenta and umbilical cord?

- A. The placenta secretes hormones whereas the umbilical cord does not.
- B. The placenta persists after pregnancy while the umbilical cord is expelled.
- C. The placenta is lined with veins and arteries while the umbilical cord is not.
- D. The placenta interlocks with foetal tissues whereas the umbilical cord interlocks with the uterine tissue.

Q.9 Some events of pregnancy in humans are written below in a sequence.

- (i) complete development of foetus
- (ii) uterine contraction
- (iii) dilation of cervix
- (iv) delivery of the baby
- (v) lactation

Between which of the following events does the shedding of the placenta happen?

- A. (i) and (ii)
- B. (ii) and (iii)
- C. (iii) and (iv)
- D. (iv) and (v)

Q.10 Which of the following methods of assisted reproductive technologies (ART) can be a more viable process of pregnancy in a woman after menopause?

- A. Gamete intra fallopian transfer
- B. Zygote intra fallopian transfer
- C. Artificial insemination
- D. Pregnancy is not possible after menopause

Q.11 The exine layer of pollen grains contains sporopollenin which is a highly resistant chemical. Sporopollenin allows pollen grains to be well-preserved as fossils.

- (a) Can fossilised pollens fertilise an ovum of the same species in the present day? Justify.
- (b) How do scientists preserve pollen grains for later use?

Q.12 State ONE characteristic of a pollen grain that can help students identify:

- (a) a water-pollinated pollen grain (b) an animal-pollinated pollen grain.

Q.13 "Continued self-pollination results in inbreeding depression".

- (a) Mention ONE impact of inbreeding depression on the upcoming generations in a farmland.
- (b) State ONE way in which cross-pollination helps in avoiding inbreeding depression.

Q.14 Bees transfer pollen from the younger flowers at the top of a plant to the older flowers at the base. Is this an example of self-pollination or cross-pollination? Justify.

Q.15 A farmer sowed tomatoes (plants with both sexes in the same flower) and bitter melon (plants with both sexes in different flowers on the same plant) on his farmland.

- (a) To ensure cross-pollination, what should the farmer do in each of the cases?
- (b) If the male flowers from the tomato plant are removed and pollen is dusted, can the flower grow into a fruit? Why or why not?

Q.16 Hormones play a crucial role in maintaining balance in living systems through feedback loops. This means that release of a hormone regulates (increases/decreases) its further release in the body. One such example is oxytocin in the female reproductive system.

- (a) Explain the feedback loop for oxytocin by answering the following questions.

- (i) From where is oxytocin released?
- (ii) At what stage of pregnancy do oxytocin levels peak?
- (b) Is the feedback mechanism for oxytocin positive or negative in nature? Justify.

Q.17 A period tracking app is a mobile application that maintains information such as date of onset of menstruation, ovulation, duration of menstrual cycle, etc. A female who got her period on January 22

is using the period tracking app. Based on your understanding of the menstrual cycle, what will be the tentative date of ovulation estimated by the app? Provide a reason.

Q.18 Polyspermy is an extremely rare condition in which an ovum is fertilised by more than one sperm.

(a) How many chromosomes will a zygote contain if 2 sperms fertilised an ovum?

(b) How is polyspermy prevented in humans?

Q.19 Read the two statements below and answer the questions that follow:

Statement I: Female P has been a surrogate mother once.

Statement II: Female Q is a national-level swimmer.

(a) Is it correct to say that the hymen is DEFINITELY broken in both females P and Q?

(b) Give a reason to support your answers to (a).

Q.20 Cryptorchidism is a condition in which one or both of the testes fail to descend from the abdomen.

(i) If cryptorchidism of both testes is left untreated, would it lead to infertility? Give reason.

(ii) Can a male with cryptorchidism of only one testis produce sperm? Give reason.

Q.21 Orchidopexy is a surgical procedure for treating cryptorchidism.

(i) Name the part to which the testes are moved outside the abdomen.

(ii) Write the exact temperature range of the testes after orchidopexy.

Q.22 Answer the questions below.

(a) Name ANY TWO reproductive processes blocked by the oral pill.

(b) A patient X took the pills as instructed for one month. Why is there a gap of 7 days after 21st day indicated on the pack?

(c) Patient X suspects that her partner is suffering from hepatitis-B. In such a situation:

(i) Would you recommend her to use oral pills as the ONLY contraceptive? Support your answer with a reason.

(ii) What is an alternative contraceptive that can be suggested to patient X and her partner?

Q.23 Answer the following questions:

(i) Based on the site of fertilisation, state one difference between Intra-Uterine Transfer (IUT) of embryo and Intra-Uterine Insemination (IUI).

(ii) All Assisted Reproductive Technologies (ARTs) require the extraction of the female gamete from the ovary. Is this statement TRUE or FALSE? Give a reason.

(iii) State one characteristic each of the donor and recipient's reproductive system that enables them to participate in Gamete Intra Fallopian Transfer (GIFT).

OTHER WORKS:

01. INVESTIGATORY PROJECT

02. PRACTICAL FILE WRITTEN WORK

Let $f: A \rightarrow B$ be defined by $f(x) = \frac{x-2}{x-3}$, where $A = \mathbb{R} - \{3\}$ and $B = \mathbb{R} - \{1\}$.

Discuss the bijectivity of the function.

22. If $A = \begin{bmatrix} 2 & 3 \\ -1 & 2 \end{bmatrix}$, then show that $A^2 - 4A + 7I = 0$.

26. (a) Show that the function $f: \mathbb{R} \rightarrow \mathbb{R}$ defined by $f(x) = 4x^3 - 5$, $\forall x \in \mathbb{R}$ is one-one and onto.

OR

(b) Let R be a relation defined on a set N of natural numbers such that $R = \{(x, y) : xy \text{ is a square of a natural number, } x, y \in N\}$. Determine if the relation R is an equivalence relation.

21. If $A = \begin{bmatrix} 2 & -2 \\ -2 & 2 \end{bmatrix}$ and $A^2 = kA$, then find the value of k .

22. (a) Simplify $\sin^{-1} \left(\frac{x}{\sqrt{1+x^2}} \right)$.

OR

(b) Find domain of $\sin^{-1} \sqrt{x-1}$.

28. (a) If $f: \mathbb{R}^+ \rightarrow \mathbb{R}$ is defined as $f(x) = \log_a x$ ($a > 0$ and $a \neq 1$), prove that f is a bijection.

($\mathbb{R}^+$ is a set of all positive real numbers.)

OR

(b) Let $A = \{1, 2, 3\}$ and $B = \{4, 5, 6\}$. A relation R from A to B is defined as $R = \{(x, y) : x + y = 6, x \in A, y \in B\}$.

(i) Write all elements of R .

(ii) Is R a function? Justify.

(iii) Determine domain and range of R .

35. If A is a 3×3 invertible matrix, show that for any scalar $k \neq 0$, $(kA)^{-1} = \frac{1}{k}A^{-1}$. Hence calculate $(3A)^{-1}$, where

$$A = \begin{bmatrix} 2 & -1 & 1 \\ -1 & 2 & -1 \\ 1 & -1 & 2 \end{bmatrix}.$$

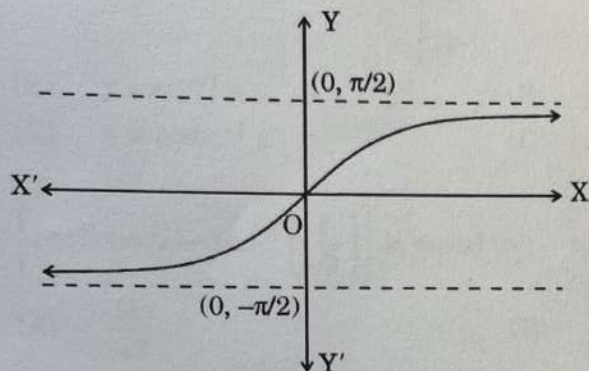
What is the total number of possible matrices of order 3×3 with each entry as $\sqrt{2}$ or $\sqrt{3}$?

- (A) 9
(B) 512
(C) 615
(D) 64

4. The matrix $A = \begin{bmatrix} \sqrt{3} & 0 & 0 \\ 0 & \sqrt{2} & 0 \\ 0 & 0 & \sqrt{5} \end{bmatrix}$ is a/an :

- (A) scalar matrix
(B) identity matrix
(C) null matrix
(D) symmetric matrix

1. The given graph illustrates :



- (A) $y = \tan^{-1} x$
(B) $y = \operatorname{cosec}^{-1} x$
(C) $y = \cot^{-1} x$
(D) $y = \sec^{-1} x$

2. Domain of $f(x) = \cos^{-1} x + \sin x$ is :

- (A) $\mathbb{R}$
(B) $(-1, 1)$
(C) $[-1, 1]$
(D) ϕ

2. If $A = \begin{bmatrix} 0 & 0 & -5 \\ 0 & 3 & 0 \\ 4 \cdot 3 & 0 & 0 \end{bmatrix}$, then A is a :

- (A) skew-symmetric matrix
(B) scalar matrix
(C) diagonal matrix
(D) square matrix

3. If $A = \begin{bmatrix} x & 0 & m \\ y & z & 0 \\ 0 & 0 & 6 \end{bmatrix} = 6I$, where I is a unit matrix, then $x + y + z + m$

is equal to

- (A) 18
(B) 12
(C) 6
(D) 2

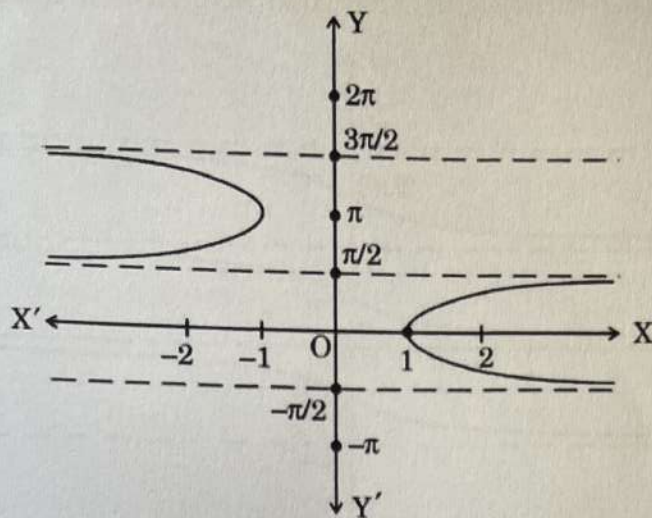
4. If $B = \begin{bmatrix} 23 & 41 & 57 \\ 53 & 64 \\ 75 & 86 \end{bmatrix}$, then the order of B is :

- (A) 3×2
(B) 2×2
(C) 1×3
(D) 1×2

5. If A and B are square matrices of the same order, then $(A - B)^2 = ?$

- (A) $A^2 - 2AB + B^2$
(B) $A^2 - AB - BA + B^2$
(C) $A^2 - 2BA + B^2$
(D) $A^2 - AB + BA + B^2$

The graph shown below depicts :



5/23

- (A) $y = \sec^{-1} x$ (B) $y = \sec x$
 (C) $y = \operatorname{cosec}^{-1} x$ (D) $y = \operatorname{cosec} x$

4. $\left[\sec^{-1}(-\sqrt{2}) - \tan^{-1}\left(\frac{1}{\sqrt{3}}\right) \right]$ is equal to :

- (A) $\frac{11\pi}{12}$ (B) $\frac{5\pi}{12}$
 (C) $-\frac{5\pi}{12}$ (D) $\frac{7\pi}{12}$

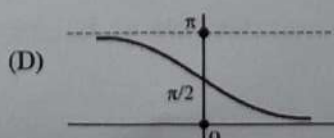
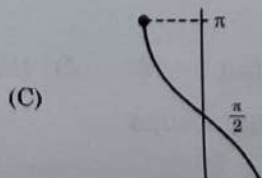
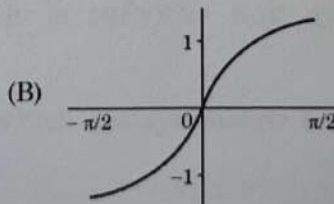
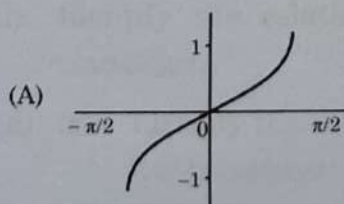
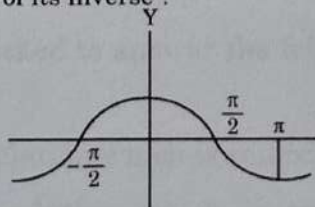
5. Let both AB' and $B'A$ be defined for matrices A and B. If order of A is $n \times m$, then the order of B is :

- (A) $n \times n$ (B) $n \times m$
 (C) $m \times m$ (D) $m \times n$

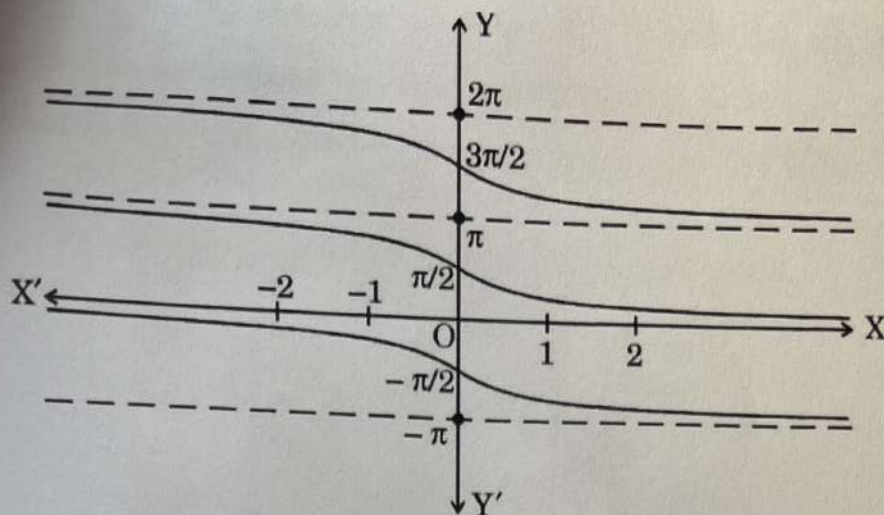
6. Sum of two skew-symmetric matrices of same order is always a/an :

- (A) skew-symmetric matrix
 (B) symmetric matrix
 (C) null matrix
 (D) identity matrix

5. The graph of a trigonometric function is as shown. Which of the following will represent graph of its inverse ?



The graph shown below depicts :



- (A) $y = \cot x$ (B) $y = \cot^{-1} x$
 (C) $y = \tan x$ (D) $y = \tan^{-1} x$

4. Let both AB' and $B'A$ be defined for matrices A and B. If order of A is $n \times m$, then the order of B is :

- (A) $n \times n$ (B) $n \times m$
 (C) $m \times m$ (D) $m \times n$

38. A class-room teacher is keen to assess the learning of her students the concept of "relations" taught to them. She writes the following five relations each defined on the set $A = \{1, 2, 3\}$:

$$R_1 = \{(2, 3), (3, 2)\}$$

$$R_2 = \{(1, 2), (1, 3), (3, 2)\}$$

$$R_3 = \{(1, 2), (2, 1), (1, 1)\}$$

$$R_4 = \{(1, 1), (1, 2), (3, 3), (2, 2)\}$$

$$R_5 = \{(1, 1), (1, 2), (3, 3), (2, 2), (2, 1), (2, 3), (3, 2)\}$$

The students are asked to answer the following questions about the above relations :

- (i) Identify the relation which is reflexive, transitive but not symmetric.
- (ii) Identify the relation which is reflexive and symmetric but not transitive.
- (iii) (a) Identify the relations which are symmetric but neither reflexive nor transitive.

OR

- (iii) (b) What pairs should be added to the relation R_2 to make it an equivalence relation ?

school is organizing a debate competition with participants as speakers $S = \{S_1, S_2, S_3, S_4\}$ and these are judged by judges $J = \{J_1, J_2, J_3\}$. Each speaker can be assigned one judge. Let R be a relation from set S to J defined as $R = \{(x, y) : \text{speaker } x \text{ is judged by judge } y, x \in S, y \in J\}$.



Based on the above, answer the following :

- (i) How many relations can be there from S to J ? 1
- (ii) A student identifies a function from S to J as $f = \{(S_1, J_1), (S_2, J_2), (S_3, J_2), (S_4, J_3)\}$ Check if it is bijective. 1
- (iii) (a) How many one-one functions can be there from set S to set J ? 2

OR

- (iii) (b) Another student considers a relation $R_1 = \{(S_1, S_2), (S_2, S_4)\}$ in set S . Write minimum ordered pairs to be included in R_1 so that R_1 is reflexive but not symmetric. 2

38. Rajesh, a student of Class-XII, visited an exhibition with his family. There he saw a huge swing and found that it traced the path of a parabola $y = x^2$. The following questions came to his mind. Answer the questions :

- (i) Let $f : \mathbb{R} \rightarrow \mathbb{R}$ be a function defined as $f(x) = x^2$. Find whether f is one-one function.
- (ii) Let $f : \mathbb{R} \rightarrow \mathbb{R}$ be defined as $f(x) = x^2$. Find whether f is an onto function.
- (iii) (a) Let $f : \mathbb{N} \rightarrow \mathbb{N}$ be defined as $f(x) = x^2$. Find whether f is one-one function. Also, find if it is an onto function.

OR

- (iii) (b) Let $f : \mathbb{N} \rightarrow \{1, 4, 9, 16, \dots\}$ defined as $f(x) = x^2$, find where f is one-one function. Also, find if it is an onto function.

SUMMER VACATION HOME WORK

CLASS- XII

SUBJECT- BUSINESS STUDIES

1. Explain any three points that highlight the importance of management.
2. Briefly describe the organizational objectives of management.
3. Both Apple Inc. and Samsung Ltd. Require management, although difference lies in the way they are managed. Identify the feature of management stated above. Explain briefly other three features of management.
4. Ritu is the manager of the northern division of a large corporate house. At what level does she work in the organization? What are her basic functions.
5. Coordination is needed at all levels of management, and is the responsibility of all managers. Explain.
6. Which is the first and last function of management?
7. When a worker achieves target production of 200 units at a higher cost, he is
(a) Efficient (b) Effective (c) Both Effective and Efficient (d) Neither effective nor efficient
8. Which level of management is responsible for the welfare and survival of the organization?
9. Write True or False
 - (a) Management is used only in Business Organizations
 - (b) Management is a group activity.
 - (c) Management Principles have universal Validity.
 - (d) Workers should be given only responsibility
 - (e) Esprit de corps replaces I withwe.
 - (f) Motion study improves speed of workers
10. Statement I – Management is multi-dimensional

Statement II – The activities involved in managing an enterprise are common to all organisations whether economic, social or political.

Choose the correct option from the options given below

- | | |
|---|---|
| (a) Statement I is true and II is false | (b) Statement II is true and I is false |
| (c) Both the statements are false | (d) Both the statements are true |

11. Prime Minister of India, launched the Swachh Bharat Abhiyan and urged all the citizens and business organizations to actively support it. Keeping this in mind, Armour Helmets Pvt. Ltd. Decided to contribute by installing 500 dustbins in and around major markets of the city.

Which objective of management is the company trying to fulfill by this act?

12. Name and explain the principle of management in which workers should be encouraged to develop and carry out their plans for improvements in the organization.
13. Name and explain the technique of scientific management which helps in eliminating unnecessary diversity of products and thus results in saving cost.
14. Write any four advantages of Scientific Management.
15. Write any two positive effects of the principle of division of work.
16. Make difference between 'Unity of Command' and 'Unity of Direction'.
17. What is 'Gang-Plank'.

18. What is the function of a Gang Boss?
19. State any four features of management principles.
20. Describe the 'Fatigue Study' technique of Scientific Management.
21. Which principle of management emphasizes the importance of dividing work into smaller tasks?
(a)Unity of Command (b)Division of Work (c)Scalar Chain (d)Discipline
22. Who is considered the father of modern management?
(a)Henry Fayol (b)Frederick Taylor (c)Elton Mayo (d)Peter Drucker
23. Which principle of management advocates that employees should receive orders from only one superior?
(a)Unity of Direction (b)Unity of Command (c)Centralization (d)Authority and Responsibility
24. What does the principle of 'Scalar Chain' refer to?
(a)The chain of command from top to bottom (b)The division of work among employees
(c)The unity of direction in an organization (d)The balance between authority and responsibility
25. Which principle of management emphasizes fair treatment of employees?
(a)Equity (b)Discipline (c)Order (d)Stability of Tenure
26. What does the principle of 'Centralization and Decentralization' focus on?
(a)The balance between authority and responsibility
(b)The degree of authority concentrated or distributed
(c)The division of work among employees
(d)The unity of direction in an organization
27. Which principle of management ensures that work is carried out in an orderly manner?
(a)Order (b)Discipline (c)Unity of Direction (d)Authority and Responsibility
28. What does the principle of 'Stability of Tenure' advocate?
(a)Employees should be given job security (b)Employees should follow orders from one superior
(c)Work should be divided into smaller tasks (d)Authority and responsibility should be balanced
29. Which principle of management states that there should be one plan for a group of activities with the same objective?
(a)Unity of Command (b)Unity of Direction (c)Division of Work (d)Scalar Chain
30. Which of the following is NOT a characteristic of management?
(a)Management is a continuous process (b)Management is a group activity
(c)Management is a one-time activity (d)Management is goal-oriented
31. Which of the following is considered the primary objective of management?
(a)Maximizing profits (b)Achieving organizational goals

(c) Ensuring employee satisfaction

(d) Reducing costs

32. Which of the following functions of management involves setting objectives and deciding how to achieve them?

(a) Planning

(b) Organizing

(c) Controlling

(d) Staffing

33. Which of the following statements best describes management as an art?

(a) Management involves technical skills only (b) Management requires creativity and personal skills

(c) Management is based on scientific principles (d) Management is a one-time activity

34. Which of the following is NOT a significance of management?

(a) Management helps in achieving group goals

(b) Management increases efficiency

(c) Management eliminates competition

(d) Management creates a dynamic organization

K-Sahu
XII C

SUMMER VACATION HOME WORK

CLASS: XII C SUBJECT: ACCOUNTANCY

1. What is partner's Current Account?
 2. Pass adjusting entry for 'Interest on Capital' due to a partner.
 3. Pass closing entry for 'Interest on drawings' due from a partner.
 4. Write any two point of difference between 'Profit and Loss Account' and 'Profit and Loss Appropriation Account'.
 5. Write any three differences between 'Fixed Capital Account' and 'Fluctuating Capital Account'.
 6. Vineet, Vivek and Pawan are partners in a firm sharing profits and losses in the ratio of 3:2:1. The partnership agreement provides that:
 - (i) Interest on capital is to be allowed @ 10% per annum.
 - (ii) Interest on drawing is to be charged @ 8% per annum.
 - (iii) Vivek will be allowed a monthly salary of ₹ 4,000 .
 - (iv) Pawan who manages the sales department will be allowed a commission equal to 10% of net profits after allowing Vivek's salary.
 - (v) Vineet has to get a minimum of ₹1,05,000 irrespective of the profits of the firm.
- The fixed capitals of Vineet, Vivek and Pawan are ₹2,50,000; ₹2,00,000 and ₹1,50,000 respectively. Their annual drawing was ₹18,000, ₹16,000 and ₹20,000 respectively for Vineet, Vivek and Pawan. The net profits of the firm for the year ended on March 31, 2018 amounted to ₹ 2,85,840. Prepare firm's profit and loss Appropriation Account.
7. Write any four rights of a partner of a partnership firm.
 8. A,B and C are partners sharing profits and losses equally with capitals of Rs. 2,00,000; Rs. 3,00,000 and Rs. 1,00,000 respectively. You are required to prepare their Profit and Loss Appropriation Account and Partners capital Account after considering the following information for the year ending 31st March, 2024.

- I. Interest on capital is allowed @ 10% p.a.
- II. Interest on drawings is charged @ 8% p.a. A withdraws Rs. 10000 at the end of each month, B withdraws Rs. 20000 at the end of each quarter and C withdraws Rs. 25000 at the beginning of each six month.
- III. C will get salary @ Rs. 5000 per month and B will get salary @ Rs. 15000 per quarter.
- IV. A will get a commission of 12% on net sales of the year. The net sales during the year amounted to Rs. 8,00,000
- V. The partners transfer 20% of net profit each year to General Reserve.
- VI. C advanced a loan of Rs. 5,00,000 to the firm on 1st October, 2023 on which interest is still due.
- VII. The net profit as disclosed by Profit and Loss Account before allowing interest on C's Loan is Rs. 7,50,000.

A partnership is governed by which Act in India?

- A. Companies Act, 2013
- B. Indian Contract Act, 1872
- C. Indian Partnership Act, 1932
- D. Income Tax Act, 1961

10. Write Short Notes on the following:

(i) Partnership Deed

(ii) Guarantee of profit

(iii) Charge against profit and Appropriation of profit with examples

11. The partners of a firm, Alia, Bhanu and Chand distributed the profits for the year ended 31st March, 2017, Rs. 80,000 in the ratio of 3:3:2 without providing for the following adjustments:

(i) Alia and Chand were entitled to a salary of Rs. 1500 each p.a.

(ii) Bhanu was entitled for a commission of Rs. 4000

(iii) Bhanu and Chand had guaranteed a minimum profit of Rs. 35,000 p.a. to Alia. Any deficiency to borne equally by Bhanu and Chand.

Pass the necessary journal entry for the above adjustments in the books of the firm. Show workings clearly.

12. In the absence of a partnership deed, interest on capital is:

- A. Allowed at 6% p.a.
- B. Allowed at 5% p.a.
- C. Not allowed
- D. Allowed at bank rate

13. Profit-sharing ratio in the absence of an agreement among partners is:

- A. Equal
- B. In the ratio of capital
- C. As per the seniority
- D. In the ratio of time devoted

14. Interest on loan advanced by a partner is allowed at the rate of:

- A. 6% p.a.
- B. 10% p.a.
- C. 12% p.a.
- D. 5% p.a.

15. A partnership agreement must be:

- A. Written
- B. Oral
- C. Either oral or written
- D. Registered

16. Which of the following is not a feature of a partnership?

- A. Mutual agency
- B. Unlimited liability
- C. Separate legal entity
- D. Agreement among partners

17. Profit and Loss Appropriation Account is prepared:

- A. Before Profit and Loss Account
- B. After Profit and Loss Account
- C. Instead of Profit and Loss Account
- D. Along with Balance Sheet

18. A and B are partners sharing profits equally. A withdrew ₹10,000 on 1st July, 2024. Interest on drawings is charged at 10% p.a. Find the interest on drawings of A for the year ending 31st March, 2025.

- A. ₹750
- B. ₹1,000
- C. ₹1,250
- D. ₹500

19. C and D are partners. C gave a loan of ₹40,000 to the firm. The firm incurred a loss during the year. Interest on loan is to be provided at 6% p.a. Calculate interest on loan.

- A. ₹2,000
- B. ₹2,400
- C. ₹1,800
- D. ₹0

20. A firm earned ₹1,00,000 profit. Partner A is entitled to a salary of ₹12,000, and partner B gets commission @10% of net profit after salary. Remaining profit is shared equally. Find B's commission.

- A. ₹8,800
- B. ₹10,000
- C. ₹7,500
- D. ₹9,000

K-sahm
XII C