

PM SHRI KENDRIYA VIDYALAYA, MIRAN SAHIB, JAMMU

SUMMER HOLIDAY HOMEWORK

CLASS - I

ENGLISH

Ques 1: Draw a big human body. (For Roll no - 1 to 13)

Label these body parts:

Eyes

Nose

Mouth

Ears

Hands

Legs

Fingers

Toes

☐ Decorate the chart with colours and stickers.

Ques 2. Make flash cards for different greetings. Write greetings like:. (For Roll no - 14 - 26

Good Morning

Good Afternoon

Good Evening

Thank You

Sorry

Welcome

Ques 3. Make a colourful chart on "Action Words".. (For Roll no - 27 to 40

Include pictures of

Run

Jump

Dance

Clap

Read

Write

Eat

Sleep

☐ Write the action word below each picture.

Ques 4. Make a separate copy and do 1 handwriting page daily

Ques 5. Complete the worksheets given and paste them in ENGLISH NOTEBOOKS.

(WORKSHEETS WILL BE SEND IN THE CLASS GROUP)

Ques 6. Read one story daily.

HINDI

सारा कार्य एक अलग हिंदी की कॉपी/नोटबुक में करें। साफ-सुथरी लिखावट रखें और रंगों का प्रयोग करें।

20 पेज सुलेख लिखें।

हिंदी पुस्तक की कोई 1 कविता पूरे हाव भाव और प्रॉप्स के साथ तैयार करें।

नियमित रूप से पंचतंत्र की कोई एक कहानी पढ़ें और किसी 2 कहानी का चित्र बनाएं।

4. एक छोटा सा मात्रा खिड़की मॉडल बनाएं। [youtube.com/shorts/EwXX8ccBEec?si=kOaoBB1ODNRh-58](https://www.youtube.com/shorts/EwXX8ccBEec?si=kOaoBB1ODNRh-58)

5. माता-पिता की मदद से 2-3 छोटी कहानियाँ सुनें/पढ़ें।

6. 1 से 20 तक हिंदी में गिनती लिखें - 2 बार।

7. अपने बारे में 4-5 पंक्तियाँ बोलना सीखें।

MATHS

MAKE SEPARATE NOTEBOOK AND DO ALL THIS WORK IN IT.

Ques 1. Write backward counting from 50 to 1.

Ques 2. Count how many:

Family members = _____

Doors in your house = _____

Windows in your house = _____

Rooms in your house = _____

Plants in your house = _____

Ques 3. Write tables of 1 to 10 and learn them properly.

Ques 4. Do 20 addition sums and 20 subtraction sums in the notebook.

Ques 5. PROJECT WORK ;

ROLL NO. 1 to 10 - Make a table chart of 1 to 10.

ROLL NO. 11 to 20 - Make a number names chart from 1 to 100.

ROLL NO. 21 to 30 - Make a chart of different shapes.

ROLL NO. 31 to 40 - Make a chart of Month names and Days of the week.

NOTE;

EVERY WORK SHOULD BE NEAT AND CLEAN.

MAKE PROJECT ACCORDING TO YOUR ROLL NOS. ONLY.

GARDENING

Activity 1: My Little Garden

Plant any 1 seed.

Water it daily.

Draw your plant after every 5 days.

Write:

Day 1 – Seed

Day 5 – Small plant

Day 10 – Growing plant

Take pictures of every step and paste them in a notebook...

Q.2 Collect the different leaves and paste in a scrap book..

Write:

Round

Long

Small

Q 3. My Favourite Plant

Draw or paste a picture of your favourite plant

Write:

Name: _____

Colour: _____

I like it because: _____

Q.4 Do Leaf printing ☐ and make Paper flower ☐

Q.5 Draw the picture of the plant and do labelling of parts of plants.

Q.6 Write the name of 5 flowers and draw the picture of these flowers.

PM SHRI KENDRIYA VIDYALAYA MIRAN SAHIB, JAMMU

SUMMER HOLIDAY HOMEWORK

2026-27

CLASS – 2ND

Subject: English

Class: 2

1. Cursive Writing Practice

- Practice one page daily from your Cursive Writing Book.
- Focus on writing neatly and maintaining proper letter formation..

2. Reading Activities

Objective: Improve your reading fluency and understanding.

Tasks:

- **Read one story every week from any Children's Story Book (like "Panchatantra Tales", "Moral Stories", etc.).**

- Record yourself reading a short story **every week** and share the video with your English teacher.

3. Simple Sentence Writing

Objective: Build confidence in writing.

Tasks:

- After reading 5 stories, write 2-3 simple sentences about that story and make drawings related to that story also. **Do this work in your classwork English notebook.**

Example of sentences after reading "The Thirsty Crow":

1. There was a crow.
2. It was very thirsty.
3. It found a pot with little water.
4. It dropped stones in the pot.

Focus on starting with a capital letter and ending with a full stop.

4. Speaking Activities – Do with Family & Friends.

Do not write these. Just practice 10 minutes daily.

Word Chain: Say a word. Next person says a word starting with the last letter. Ex: Chase → Energy → Yummy

Describe Your Day: Every evening, tell your family 3 sentences about your day in English.

5. Project Work

Objective: Make simple teaching aids related to English

(Choose any one out of the given three)

1 Make a digraph Chart: <https://images.app.goo.gl/L37oydAxABf2THdV9>
<https://images.app.goo.gl/4bamSLrY4NQNXVJ4A>

2 Sight Words Chart: Make a chart of any 20 sight words <https://dolchword.net/by-grade-frequency/>

3 Make a diphthong chart <https://images.app.goo.gl/XLESj54VDWYDF8Xm8>

विषय: हिंदी

कक्षा: 2

1. सुलेख अभ्यास

- अपनी **सुलेख पुस्तक** में 15 पृष्ठ सुलेख लिखें।
- अक्षरों का आकार सुंदर और स्पष्ट रखें।

2. पठन गतिविधियाँ

उद्देश्य: विद्यार्थियों में पठन कौशल को बढ़ाना।

कार्य:

- प्रतिदिन कम से कम एक कहानी पढ़ें (जैसे: पंचतंत्र की कहानियाँ, लोक कथाएँ)।

3. लेखन गतिविधियाँ

उद्देश्य: लेखन कौशल में सुधार।

कार्य:

- पढ़ी गई □□□ □□ 5 कहानी के आधार पर **सरल वाक्य** लिखें। प्रत्येक कहानी से संबंधित चित्र बनाएं और जो उस कहानी में आपने पढ़ा उसके बारे में 2 से 3 वाक्य लिखें।

उदाहरण (कौआ और घड़ा कहानी से):

1. एक कौआ बहुत प्यासा था।
2. उसे एक घड़ा मिला।
3. घड़े में थोड़ा पानी था।
4. कौआ ने उसमें कंकर डाले।
5. पानी ऊपर आया और कौआ ने पानी पिया।

4. परियोजना कार्य (Project Work)

इन तीनों में से किसी एक का चयन करें।

1 संज्ञा शब्दों का सुंदर चार्ट बनाइए। (चित्र सहित)

2 विलोम शब्दों के उदाहरणों का सुंदर चार्ट बनाइए। (चित्र सहित)

Subject: Maths

Class 2

Instructions: Make a separate copy for Maths holiday hw

- Learn and write number names upto 100.
- Learn and write table upto 12.
- Do the given worksheet
- Do daily any five addition subtraction sums (Mention date above)
- Make 3D shapes and colour them (cube , cuboid , cone , cylinder)
- Make 2D shapes (square, rectangle, triangle, pentagon, circle). Also colour them
- Make table wheels of tables (6,7,8,9)

PROJECT WORK

□ 1. Make a model of clock.

<https://youtube.com/shorts/OITfFYfAXs?feature=shared>

□ 2. Coin rubbing (draw) the coins in the notebook. https://youtube.com/shorts/T_n9QQ-ixmg?si=vf4uV6-cohK3UVsg

□ 3. Paste the dummy notes (5/-, 10/-, 20/-, 50/- 100/- 200/-) and write the value of them. <https://youtube.com/shorts/fn91H-2xGnA?si=xL00QQJG0YuBoJFT>

Subject: Gardening

Class 2

NOTE;

- Make a scrap file for doing the homework. (Cover it properly, you can decorate the cover page)
- You have to do the sended worksheets in your Gardening notebook.

- 1) Plant a sapling of any plant. Take a 2-3 picture while sapling and doing care of it. Paste the photographs in scrap file.
- 2) students have to create a collage using natural materials (e.g., leaves, flowers, twigs) or recycled materials.
- 3) Identifying common garden birds and insects. Write their names and paste pictures
- 4) Experiment: Growing plants in sunlight vs. growing in shade. Paste pictures after 15 days.
- 5) Project work:-Drip irrigation using plastic bottles. <https://youtu.be/64xrgnneVs?si=DOxDuTldxRRmQYiE>
- 6) Make a bird feeder from popsticks.

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SUMMER HOLIDAYS HOMEWORK –

CLASS - 3

Note for Parents:All work should be neat, and done by the child. Please guide but do not complete it for them.Marks/grades will be given for holiday homework.

English

Use a separate thin notebook for English HHW अंग्रेजी होमवर्क के लिए एक अलग पतली नोटबुक का उपयोग करें।

1. Cursive Handwriting Practice

Write 10 pages of cursive handwriting in a separate holiday homework notebook.

2. Daily Reading Log

After the handwriting work, do this work. Read one English story every day from any storybook at home. After reading, write the name of the story and write two new words that you learned from the story with their meanings in English and Hindi.

3. Story Telling Presentation

Choose any one story you liked. Practice telling it in English. You will present it in class after the holidays. You can practice with puppets etc. The story should not be more than 1 minute long.

4. Speaking Activities – Do with Family

Do not write these. Just practice 10 minutes daily.

- Word Chain: Say a word. Next person says a word starting with the last letter. Ex: Chase → Energy → Yummy
- Describe Your Day: Every evening, tell your family 3 sentences about your day in English.

Project Work

NOTE:- Use A3 size sheets. Writing should be BIG, BOLD, and VISIBLE. Use dark crayons/sketch pens. Keep it neat. Be creative.

Roll no. 1- 5 Chart 1: Prepositions (Showing prepositions on, in, under)

Roll no. 6- 10 Chart 2: Prepositions (Showing prepositions between, in front of, behind)

Roll no. 11- 15 Chart 3: Prepositions (Showing prepositions up, down, above and below)

Roll no. 15- 20 Chart 4: Prepositions (Showing prepositions into, out of, through, across, beside)

Roll no. 21- 25 Chart 5: Common Noun & Proper Noun

Roll no. 26- 30 Chart 6: Types of Pronouns with Images(Showing subject and object pronouns)

Roll no. 31- 35 Chart 6: Types of Pronouns with Images(Showing possessive and reflexive pronoun)

Roll no. 36- 40 Chart 4: Adjectives/Describing words

Roll no. 41- 44 Chart 5: Adverbs

हिंदी

नोट- गृहकार्य के लिए एक अलग पतली सी 'हिंदी हॉलिडे होमवर्क' नोटबुक लगाएं या फिर आप English holiday homework कापी में भी यह कार्य कर सकते हैं।

1. बाराखड़ी अभ्यास: माता-पिता कृपया बच्चों को प्रतिदिन या हर दूसरे दिन अपने साथ बैठकर 'बाराखड़ी' का अच्छे से अभ्यास कराएं। नोटबुक: इस
2. सुलेख (Handwriting): नोटबुक में 10 पेज सुंदर लिखाई (सुलेख) में लिखें।
3. कहानी पठन व शब्दावली: प्रतिदिन एक हिंदी कहानी पढ़ें। कहानी का नाम लिखें और उस कहानी में से सीखा हुआ नया शब्द रोज अपनी नोटबुक में लिखें।
4. तुकबंदी वाले शब्द (Rhyming Words): अपनी हिंदी पुस्तक वीणा में से 20 तुकबंदी वाले शब्द टूटकर लिखें। हर शब्द के सामने 2-2 मिलते-जुलते शब्द होने चाहिए।

प्रोजेक्ट वर्क

(रोल नंबर के अनुसार चार्ट पेपर पर)

रोल नंबर 1 - 5: विलोम शब्द (Antonyms) पर आकर्षक चार्ट बनाएं।

रोल नंबर 6 - 10: पर्यायवाची शब्द (Synonyms) पर चार्ट बनाएं।

रोल नंबर 11 - 15: वचन बदलो (Change the Number - एकवचन/बहुवचन) पर चार्ट बनाएं।

रोल नंबर 16 - 20: संज्ञा एवं उसके भेद (Noun & its types) पर चार्ट (A4 चार्ट का साइज) बनाएं।

रोल नंबर 21 - 25 : सर्वनाम (Pronoun) पर चार्ट बनाएं।

रोल नंबर 26 - 30: क्रिया (Verb) पर चार्ट बनाएं।

रोल नंबर 31 - 35: विशेषण (Adjective) पर चार्ट बनाएं।

रोल नंबर 36 - 40: लिंग बदलो (Gender) पर चार्ट बनाएं।

रोल नंबर 41 - 44: सर्वनाम के भेद (Types of Pronoun) पर चार्ट बनाएं।

TWAO

(DO THE WORK IN SCRAPBOOK)

1. Collect or draw pictures of 5 festivals celebrated in India and write:
State
Special food
Clothes
Decorations
Importance
2. Make a colourful poster on:
"Safety on Roads"
3. Paste or draw pictures of road safety rules you follow daily and also explain them.
4. Create a mela using waste materials or clay.
Include:
Toy stall , Food stall , Giant wheel , Ticket counter, First aid booth
5. Interview the oldest member of your family and ask:
a) Which games did they play in childhood?
b) What was their favourite food?
c) What advice would they give children today?
6. Answer the following questions
a) How do festivals spread happiness?
b) Why should we care for animals and plants?
c) Why is teamwork important in a family?
d) How can we make festivals eco-friendly?
7. Revise chapter ' Family and friends'.

Mathematics

1. Make model of 3-D shapes. Examples cuboid, sphere, Cylinder, cone.
2. Make a 3-D model of dice.
3. Write table from 2 to 15 three times and learn it.
4. Do 20 sum of addition, subtraction, multiplication.
5. Make a toy using 3-D shape. you can refer your chapter 2 toy joy.
6. Revise all the copy work.

Class 4 SUMMER VACATIONS

SESSION - 2026-27

Holidays homework

English

General Instructions:

- Complete the work neatly in a separate notebook/file.
 - Use colours, drawings, and creativity.
 - Revise your NCERT lessons while doing the work.
 - Learn ch- 1 and poem together we can , read ch-2&3
1. Read any 2 stories from your NCERT English book. Write: Name of the story, Characters, Moral of the story.
 2. Write a paragraph (8–10 lines) on: My Favourite Season Or How I Spent My Summer Vacation
 3. Paste or draw a picture of a park / beach / rainy day and write 5–6 sentences about it.
 4. Write: 5 Nouns, 5 Verbs, 5 Adjectives, 5 Pronouns
 5. Write 5 sentences each in: Present tense & Past tense
 6. Write: 10 Opposites (e.g., big – small) , 10 Similar words (synonyms)
 7. Learn and write 10 new words from your English book. Write their meanings and make sentences.
 8. Read any one story book (storybook/comic).

Project work

Maths

General Instructions:

- Do all work neatly in a separate holiday homework notebook.
 - Maintain proper date and margins.
 - Revise your work regularly.
 - Try to complete the work independently.
-
- Write numbers from **10,000 to 10,050** in words.
 - Make a **place value chart** for any 5-digit number.
-
- Draw and name:
 - 2D shapes: Circle, Square, Triangle, Rectangle
 - 3D shapes: Cube, Sphere, Cylinder
 - Find and paste pictures of objects from home related to these shapes.
 - Measure 5 objects at home using a scale (in cm).
 - Write their lengths in a table.
 - Make a **Maths Scrapbook** with:
 - Tables
 - Shapes

TWAU

1. Learn Chapter 1 thoroughly.
2. Read Chapters 2, 3 and 4 carefully.
3. Complete all TWAU holiday homework in a separate scrapbook.
4. Draw and colour a beautiful Nature Scene showing trees, mountains, river, sun, birds, animals and people keeping the surroundings clean.(Do this work in scrap book)
5. Paste or draw 5 pictures of plants. Mention their uses and importance in our daily life.(Do this work in scrapbook)
6. Draw or paste the picture of India's political map and locate all states and union territories on it. (Do this work in scrapbook)
7. Draw or paste pictures of any 5 modes of transport and any 5 means of communication and write their names. (Do this work in scrapbook)
8. Project Work
 - a) Make 2 puppets of any one animal and one bird mentioned in chapter-3 Nature Trail of your TWAU book (You can make clay puppet / bottle puppet/ cloth puppet / paper mache puppet etc.)
 - b) Prepare a slogan poster on any one topic
 - * Save Trees
 - * Stop Cruelty Against Animals
 - * Save Water
 - * Teamwork.

हिन्दी

कॉपी कार्य (यह कार्य आपको छुट्टियों की एक अलग कॉपी लगाकर करना है।)

- प्रतिदिन एक कहानी पढ़िए।
- प्रतिदिन एक पेज सुलेख कीजिए।
- 10 विलोम शब्द याद करके लिखिए।
- 10 पर्यायवाची याद करके लिखिए।
- 10 एकवचन - बहुवचन याद करके लिखिए।

स्क्रेप फाइल कार्य

1. अपने आस पास के पौधों को देखिए और कोई 5 पत्तियां इकट्ठी करिए, इन पत्तियों को अपनी स्क्रेप फाइल में चिपकाइए, पौधे का नाम लिखिए व हरएक पत्ती की 2-2 विशेषता लिखिए।
2. अपना एक पौधा लगाइए और प्रतिदिन उसकी देखभाल कीजिए। आपने यह पौधा कैसे लगाया अपने अनुभव को एक A 4 साइज शीट पर लिखिए, व अपने पौधे का चित्र चिपकाइए।

Class 5 SUMMER VACATIONS

SESSION - 2026-27

Holidays homework

English

Note - Make a separate notebook for summer holiday homework of English

1. Write 10 pages cursive handwriting in holiday homework notebook.
2. Read any magazine like champak, nandan, etc. and keep a record in reading log book.
3. Make a pocket dictionary of English. (Have atleast 50 words with meaning)
4. Do the given worksheets of Articles, noun, adverb, Punctuation, picture composition and unseen passage.
5. Draw a rainbow and write the poem and learn it.

Model:-

1. **Rollno(1-15)**- Make a model of parrot and cage . (Ch-4)
2. **Rollno(16-30)** - Make a bird feeder. (Ch-4)
3. **Rollno (31- rest all)** - make a model of rainbow.

Project work:-

□ ***Make a chart on the following topic according to your Roll. No***

- A) Noun. (Roll No. 1-5)
- B) Pronoun (Roll No. 6-10)
- C) Verb (Roll No.10-15)
- D) Adjective (Roll No. 16-20)
- E) Preposition. (Roll No. 21-25)
- F). Punctuation (Roll No. 26-30)
- G) Adverb. (Rollno. 31-35)
- H). Compound words. (Rollno. 36-40)
- I). Rhyming words (Rollno. 41- Rest of all)

Maths

Note - All work must be done in separate holiday home work notebook...

□□ Section A: Mental Maths

1. $456 + 789 =$ _____
2. $900 - 478 =$ _____
3. $25 \times 16 =$ _____
4. $144 \div 12 =$ _____
5. Write the place value of 7 in 5,73,482 = _____

□ Section B: Number System

Q.1 Write in expanded form:

- (a) 4,56,321 = _____
(b) 7,08,905 = _____

Write in numbers:

- (C) Five lakh twenty thousand ten = _____
(d) Nine lakh nine thousand nine = _____

Q.2 Compare using $>$, $<$ or $=$

- (a) 5,43,210 _____ 5,34,210
(b) 7,89,000 _____ 7,98,000

+ Section C: Addition & Subtraction

- $45,678 + 23,987 =$ _____
 $98,765 - 45,432 =$ _____

A shopkeeper sold goods worth ₹45,670 and ₹23,890 in two days.

Find total sale = _____

□ □ ÷ Section D: Multiplication & Division

- $345 \times 27 =$ _____
 $5,678 \times 36 =$ _____
 $8,640 \div 12 =$ _____
 $9,876 \div 14 =$ _____

□ Section E: Measurement

Convert:

- (a) 51 km = _____ m
(b) 7500 g = _____ kg
(c) A ribbon is 3 m 45 cm long. Another ribbon is 2 m 30 cm long.
Find total length = _____

⌚ Section F: Time

Convert:

- (a) 2 hours 30 minutes = _____ minutes
(b) 150 minutes = _____ hours _____ minutes
(c) A movie starts at 3:45 pm and ends at 6:15 pm.
Duration = _____

□ Section G: Money

- A) Add: ₹345.50 + ₹567.25 = _____
B) Subtract: ₹900 - ₹456.75 = _____
c) You bought a toy for ₹250 and a book for ₹175.
Total money spent = _____

- Write tables 2 to 20 (5 times) .

- **Make a chart on given topic -**

Roll no 1 to 10 (3 D shapes)

Roll no 11 to 20 (Fraction chart)

Roll no 21 to 30 (Place value chart upto thousands place value)

Roll no 30 to 40 (measurement capacity /Weight / length)

Roll no 41 to 45 (Table chart 2- 20)

TWAO

- Make a separate scrapfile. (Cover it properly, you can decorate the cover page)

1) Do sapling of any plant (Grow plant from seed). Take pictures of you doing it. Paste the pictures in a scrapfile and write a short report on it.

(Report can include your observation, about your feelings to grow a plant etc)

2) Search about any 5 extinct animals, paste or draw pictures of them and write 2 - 3 lines about it. (Do it in scrapfile)

3) Make any one folk painting of any state on A4 size white sheet and write 5 lines about it. (Attach the painting in scrapfile)

4) Make 1 bookmark on the theme, "ENVIRONMENT"

PROJECT WORK ;

ROLL NO. 1 to 10 - Make a model of any water animal.

ROLL NO. 11 to 20 - Make a model of teeth.

ROLL NO. 21 to 30 - Make a model of any land animal.

ROLL NO. 31 to 50 - Make a model showing waste management.

HINDI

इस कार्य को एक अलग (सेपरेट) हिंदी की कॉपी/नोटबुक में करें।

साफ-सुथरी लिखावट रखें और रंगीन पेन/पेंसिल का प्रयोग करें। एक सुंदर कवर पेज बनाएं।

1. अपनी हिंदी की पुस्तक या कोई भी कहानी की किताब से 2 रोचक कहानियाँ पढ़ें। प्रत्येक कहानी का 10-12 पंक्तियों में सार लिखें। हर कहानी से 10 नए शब्द टूटकर उनके अर्थ लिखें।

2. अपने किसी मित्र को छुट्टियों के अनुभव बताते हुए एक पत्र लिखें।

3. 25 नए हिंदी शब्द लिखें और उनके अर्थ लिखें।

4. रोज़ 15 मिनट हिंदी ज़ोर से पढ़ें। किसी एक विषय पर 2 मिनट बोलने का अभ्यास करें (जैसे - मेरा स्कूल, मेरा परिवार)।

PM SHRI KENDRIYA VIDYALAYA MIRAN SAHIB

SESSION-2026-27

HOLIDAY HOMEWORK ENGLISH

CLASS - 6

1. Reading Activity

Read any short story and write:

Name of the story

Characters

What did you learn from it?

 Section B: Writing Skills

2. Paragraph Writing (60–80 words)

Write on any one topic:

My Summer Vacation

My Favourite Teacher

My Favourite Game

3. Letter Writing

Write a letter to your friend about your holidays.

4. Story Writing

Complete the story:

 "One day, I found a lost puppy on the road..."

 Section C: Grammar

5. Tenses

Write 3–5 sentences each:

Present Tense

Past Tense

Future Tense

6. Parts of Speech

Write 5 examples of each:

Noun,verb, Adjective

7. Opposites (Antonyms)

Happy,Sad,Day,Night,Big,Small

(Add 5 more)



Section D: Creative Work

8. Drawing & Writing

SUBJECT -HINDI

कक्षा: छठी (6th) | विषय: हिन्दी

1. लेखक एवं कवि परिचय (परियोजना कार्य)

अपनी पाठ्यपुस्तक 'मल्हार' के किन्हीं दो पसंदीदा लेखकों या कवियों का जीवन परिचय तैयार करें।

- **कार्य:** उनका नाम, जन्म स्थान, प्रमुख रचनाएँ और साहित्य में योगदान लिखें।
- **विशेष:** उनके चित्र (Photos) चिपकाएँ या स्केच बनाएँ।

2. कविता लेखन एवं वाचन

पाठ-1 "मातृभूमि" अथवा पाठ-3 "पहली बूँद" में से अपनी पसंद की कोई एक कविता लिखें।

- **कार्य:** कविता को सुंदर लेख में अपनी कॉपी में लिखें और उसे कंठस्थ (याद) करें।

3. शब्द भंडार (निजी शब्द-कोश)

- **कार्य:** प्रतिदिन 2 नए हिंदी शब्द खोजें।
- **प्रारूप:** एक छोटी डायरी या नोटबुक में शब्द, उसका अर्थ और उस शब्द से बना एक वाक्य लिखें। अंत में आपका अपना एक 'शब्द-कोश' तैयार हो जाएगा।

4. अनुभव लेखन

अपनी गर्मियों की छुट्टियों के किसी एक सबसे विशेष दिन को शब्दों में पिरोएँ।

- **विषय:** "मेरी गर्मियों की छुट्टियों का एक यादगार दिन"।

- शब्द सीमा: 100-150 शब्द।

5. स्मरण कार्य

- कार्य: पाठ संख्या 1 से 3 तक के सभी प्रश्न-उत्तर और अभ्यास कार्य को अच्छी तरह याद करें।

6. लघु निबंध

निम्नलिखित दो विषयों पर प्रभावशाली लघु निबंध लिखें:

1. हिन्दी भाषा का महत्व: (हमारी राजभाषा और उसका गौरव)।
2. स्वच्छता का महत्व: (जीवन में साफ़-सफाई की आवश्यकता)।

7. सुलेख (Handwriting)

- कार्य: 10 पेज सुलेख लिखें।

महत्वपूर्ण निर्देश:

- सारा कार्य साफ-सुथरा और स्पष्ट अक्षरों में होना चाहिए।
- निबंध और डायरी लेखन में मौलिकता (अपने विचार) का प्रयोग करें।

SUBJECT – MATHS

Introduction to Patterns

- Write definition of pattern with 3 examples.
- Identify patterns around you (tiles, clothes, rangoli, etc.).
- Draw 3 patterns from real life.
- Practice: Identify missing numbers

(a) 2, 4, 6, __, __

(b) 5, 10, __, 20

Number Patterns

- Study even and odd number patterns.
- Write first 20 even and odd numbers.

- **Practice:**

- 3, 6, 9, __, __

-

- 7, 14, __, __

-

- **Create your own 3 number patterns.**

Increasing & Decreasing Patterns

- **Understand patterns that increase/decrease.**

- **Solve:**

- 50, 45, 40, __, __

-

- 1, 3, 6, 10, __

-

- **Activity: Create staircase pattern using dots.**

Shapes & Visual Patterns

- **Draw repeating patterns using shapes (circle, triangle, square).**

- **Colour them neatly.**

- **Identify pattern rule (e.g., repeat after 3 shapes).**

- **Practice: Continue patterns. Patterns with Tables**

- **Write tables of 2, 3, 4, 5.**

- **Observe patterns in tables.**

- **Practice:**

- Multiples of 6 till 60

-

- **Activity: Highlight patterns in multiplication table chart.**

Alphabet Patterns

- **Create patterns using letters:**

- A, B, C, __, __

-

- Z, Y, X, __

-

- **Make your own 5 alphabet patterns.**

- **Fun task: Write your name in pattern form.**

Puzzle Day

- **Solve pattern puzzles:**

- 1, 4, 9, 16, __

-

- 2, 5, 10, 17, __
-
- Create 2 puzzles for friends.
- Activity: Match patterns worksheet.

Real-Life Application

- Find patterns in:
 - Nature (leaves, flowers)
 -
 - Buildings
 -
- Paste pictures or draw them.
- Write 5 lines on importance of patterns.

Project 1: Patterns around Us

- Collect pictures or draw patterns from daily life:
 - Tiles, fabrics, nature
 -
- Paste on chart paper.
- Write pattern rule below each.

Project 2: Mathematical Pattern Chart

*Make a chart showing:

- Even/Odd patterns
-
- Square numbers (1, 4, 9, 16...)
-

*Decorate neatly.

Chapter: Lines & Angles

Introduction to Geometry:

- Revise basic terms: Point, Line, Line Segment, Ray
- Draw and label examples in notebook
- Activity: Identify objects at home representing lines and rays
- Draw 5 examples of each (line, ray, segment)

Types of Lines:

- Study: Parallel and Intersecting lines
- Draw diagrams using scale
- Draw:
 - 2 pairs of parallel lines

-
- 2 pairs of intersecting lines
-

Introduction to Angles

- Learn definition of angle
- Parts: Vertex, Arms

Practice:

- Draw and label 5 angles

Types of Angles

- Acute, Right, Obtuse, Straight, Reflex

Practice:

- Draw one example of each type
- Identify angles from surroundings (clock, books, doors)

Project 3 – Angles in Real Life

- Collect pictures from newspapers/magazines or draw scenes
- Identify and label different types of angles
- Examples:
 - Clock
 -
 - Road crossings
 -
 - Buildings
 -

Submit in chart or scrapbook

Project 4 – Angle Art

- Create a creative design using only angles

- Use ruler, compass, and colors
- Include at least:
 - 5 types of angles
 -
 - 2 angle pairs
 -



Make it colorful and neat

SUMMER BREAK HOMEWORK FOR SCIENCE FOR CLASS 6

1. To read chapter 1,2 and 3 loudly at home three times and to complete exercise from chapter 1 to 3
 2. List junk foods you eat frequently. Suggest some healthy options .
 3. Find out about Project Tiger and other similar projects to protect our biodiversity.
 4. learn and practice chapter 1 to 3 all questions for upcoming test.
 5. Exploratory projects
Prepare a diet chart to provide a balanced diet to a twelve-year-old child. The diet chart should include food items that are not expensive and are commonly available in your area.
 6. Complete all questions of chapter 1 to 3 if not done earlier.
- No holiday homework copy. Every work needs to be done in your homework notebooks

SUBJECT -SST

HOLIDAY HOMEWORK

SUMMER VACATION (8.05.2026 to 16.06.2026)

CLASS – VI

SOCIAL SCIENCE

1. Map work-
Draw a map of your locality using proper direction, scale, symbol and paste in your notebook.
2. Write the types of family and which type of family do you belong.
3. Create a family tree with your parents, grandparents and great grandparents. Find out their names.
4. Write about a tourist place of India which you like the most.

5. Draw a timeline and place these date on it. 323 CE, 323 BCE, 100 CE, 100 BCE, 1900 BCE, 1090 CE, 2024 BCE.
6. Write about the local government system of your locality.
7. Write a paragraph on World Environment Day (5 June).
8. Write about on a local historical place nearby you.
9. Write a paragraph on "the Indian Constitution .

ग्रीष्मकालीन अवकाश हेतु गृहकार्यम् संस्कृतम्. कक्षा - छठी

- संस्कृत में शरीर के अंगों के नाम।
- संस्कृत में दस जानवरों के नाम।
- संस्कृत में पक्षियों के नाम।
- संस्कृत भाषा में अपना परिचय।
- राम शब्द तथा लता शब्द लिख कर लाएं।
- संस्कृत में एक से लेकर सौ तक संख्या शब्द तथा अंकों में लिखें
- पाठ एक तथा दो पाठ का अभ्यास करके लाएं।
- संस्कृत भाषा का महत्व इस विषय पर 3 पेज का निबंध लिखें।
- कोई भी पाँच श्लोक लिखकर तथा याद करके लाएं।

SUBJECT -ART

CLASS - 6 - Draw poster on International Yoga Day 2026(Chart paper)

PM SHRI KENDRIYA VIDYALAYA MIRAN SAHIB JAMMU

SESSION-2026-27

CLASS - 7

Section A: Reading

1. Comprehension

Read any short story (from your English book or storybook) and answer:

Name of the story

Main characters

What lesson did you learn?

Your favourite part

Section B: Writing Skills

2. Paragraph Writing (80–100 words)

Write on any one topic:

My Summer Holidays

My Best Friend

Importance of Cleanliness

3. Letter Writing

Write a letter to your friend telling how you spent your holidays.

4. Story Writing

Complete the story:

 "It was a rainy day. I was alone at home when suddenly..."

Section C: Grammar

5. Tenses

Write 5 sentences each:

Present Tense, Past Tense, Future Tense

6. Parts of Speech

Write 5 examples of each:

Noun, Verb, Adjective, Adverb

7. Opposites (Antonyms)

Word. Opposite

Good

Bad

Hot

Cold

Big

Small

(Add 5 more)

 Section D: Creative Work

8. Poster Making

Make a poster on:

 "Save Water". Or.  "Keep Your Surroundings Clean"

SUBJECT HINDI

परियोजना कार्य (IN FILE)

जल संरक्षण से आप क्या समझते हैं?

जल की महत्ता व उपयोगिता का समझाएँ।

और इसे बचाने के उपाय बताइए।

पाँचों पाठ्यक्रम का पुनरावलोकन करें।

लेख लिखें → गर्मियों की छुट्टियों का आनंद,

बचपन की कहानी, प्रकृति अनमोल भेंट।

शब्दकोश से प्रतिदिन पाँच-पाँच शब्द लिखें।

(ON FILE)

प्रतिदिन एक पेज लेख लिखें।

(ON NOTE BOOK)

पर्यायवाची शब्द व विलोम शब्द लिखें (20, 20)

SUBJECT MATHS

Instructions for Submission:-

- * Use Homework notes for solving and don't write solutions from the google/internet
- * Submission Date:- First day after summer vacation.
- * All work must be handwritten.
- * Marks will be awarded for neatness, completeness, and creativity.
- * If any question is not clear, students can leave that question or ask me on WhatsApp.

VERY VERY IMPORTANT:-

- * learn all the tables till 25

Chapter :- 1 Large Number Around Us

Task 1:- Number Writing Fun

*Write any 10 large numbers (up to 1 crore)

For each number:

★ Write number name

★ Write expanded form

★ Find Face value of all digits

👉 Example:

Number: 34,56,789

Number name: Thirty four lakh fifty six thousand seven hundred eighty nine

Expanded form: $30,00,000 + 4,00,000 + 50,000 + 6,000 + 700 + 80 + 9$

Face value of 3 = 3

Face value of 4 = 4

Face value of 5 = 5

Face value of 6 = 6

Face value of 7 = 7

Face value of 8 = 8

Face value of 9 = 9

Task 2: Place Value & Comparison

1. Write place value of:

7 in 57,34,890 = _____

5 in 5,00,456 = _____

2. Arrange in ascending order:

4,56,789 ; 4,65,789 ; 4,56,879

3. Insert >, < or =

9,00,000 ____ 8,99,999

7,65,432 ____ 7,56,432

Task 3: Form Numbers

1. Using digits 2, 5, 7, 8, 0

✓ Largest number = _____

✓ Smallest number = _____

✓ Make a number divisible by 10

2. Fill in the Blanks

Smallest 6-digit number = _____

Greatest 7-digit number = _____

1 lakh = _____

1 crore = _____

 Task 5: Creative Activity

 Draw:

✓ Indian Place Value Chart

✓ International Place Value Chart

 Decorate with colours and labels

SECTION B – CHAPTER 2: ARITHMETIC EXPRESSIONS

Task 6 :-

1. Create 10 different arithmetic expressions on your own.

2. For each expression:

✓ Write the expression

✓ Identify and write number of terms

✓ Solve the expression step by step

3. Now the fun part

👉 For each expression, create a real-life story or situation related to it.

Example:-

Expression: $10 + 5 \times 2$

👉 Number of terms: 3 terms ($10, 5 \times 2$)

👉 Solution:

$$10 + (5 \times 2)$$

$$= 10 + 10$$

$$= 20$$

👉 Story/Situation:

Riya has 10 chocolates. She buys 5 packets of chocolates, each having 2 chocolates.

👉 Total chocolates = 20

Task -7

WORD PROBLEMS

1. The population of a city is 45,67,890 and another city has 38,45,670 people. Which city has more population and by how much?

2. A company earned ₹5,67,89,000 in one year.

Write this amount in words.

3. A school has 12,45,678 students in total. Write the number in expanded form.

4. Riya buys 5 packets of biscuits, each costing ₹10, and already has ₹20. Find total money spent using an expression.

5. A teacher distributes 24 chocolates equally among 6 students. Write and solve the expression.

6. A shopkeeper sells 8 boxes, each having 12 items. Total items = ?

7. A student reads 10 pages daily for 7 days and then reads 20 extra pages. Find total pages using expression.

Task -8

Solve all the examples given in chapters 1 & 2.

✓ Write each solution neatly in your notebook.

✓ Show proper steps and working for every question

SUBJECT -SCIENCE

Class- VII

S

GENERAL INSTRUCTIONS

- Use neat handwriting.
- Do work in a separate notebook.
- Add diagrams.
- Be creative.

A. Research & Writing Task

1. Write a short report (1–2 pages) on: How Science Has Changed Our Daily Life.

B. Activity-Based Task

1. List 5 examples of science in daily life.
2. Explain how any one invention works.
3. Prepare a list of objects in your home under three categories:
 - (i) Objects which are electrical insulators only.
 - (ii) Objects which are electrical conductors only.
 - (iii) Objects which are made of both, whose parts are insulators and some electrical conductors.

C. Creative Task

1. Make a poster or collage on: Future of Science – Life in 2050.

D. Practical Activity

Use turmeric as an indicator and test lemon juice, soap solution, baking soda solution and make a table of the observation.

E. Case-Based Task

Riya had acidity and her mother gave her an antacid.

1. What type of substance is an antacid?
2. How does it help?
3. Which reaction takes place?

F. Textbook Task

Write in-text questions of Exploring Substance on **Science Notebook**.

SUBJECT -SST

SUMMER VACATION (8.05.2026 to 16.06.2026)

CLASS – VII

1.Map work-

Label and locate physical features of India on Map and paste in your notebook.

2.What are the physical and climactic features of your area? Define.

3.Gather different methods of preserving food across India.

4.Write about a tourist place of India under UNESCO site..

5.What is Government? What are its functions?

6.What are sectors in Economic activities ? Define it.

7.Write a paragraph on "Indian constitution".

8. Write and learn the 'Preamble' of the Indian Constitution.

9.Write a paragraph on World Environment Day (5 June).

10.Visit a historical place and write your experience about it.

SUBJECT SANSKRIT

कक्षा - सातवीं

संस्कृतम्

- देव , बालक , कवि ,हरि, गुरु तथा पितृ इन सभी पुलिङ्ग शब्दों को सभी विभक्तियों में लिखे।
- नदी,धेनु तथा मातृ इन सभी स्त्रीलिङ्ग शब्दों को सभी विभक्तियों में लिखे।
- फल , धन,मित्र तथा ज्ञान इन सभी नपुंसकलिङ्ग शब्दों को सभी विभक्तियों में लिखे।
- तद् तथा किम् दोनो सर्वनाम शब्दों को तीनों लिङ्गो तथा सातों विभक्तियों में लिखें।

धातुरुपाणि

- लिख्, खाद्, वद्, हस्, तथा गम्(गच्छ) इन धातुओं को लट्, लृट् लोट् लङ् तथा विधिलिङ् लकारों में लिखें ।
- पाठ दो के सभी श्लोकों को स्मरण करें तथा हिन्दी अर्थ सहित लिखें।
- संस्कृत में कारक कितने होते हैं ।
- "संस्कृत भाषा का महत्व" इस विषय पर लघु निबन्ध लिखें ।
- संधि किसे कहते हैं स्वर सन्धि लिखें ।

• SUBJECT -ART

- Class 7- Draw poster on International yoga Day 2026 (chart paper)

PM SHRI KENDRIYA VIDYALAYA MIRAN SAHIB JAMMU

Holiday Homework – Class 8

SESSION (2026-27)

SUBJECT -ENGLISH

 Section A: Reading

1. Comprehension Passage

Read any short story (from your textbook or a storybook) and answer:

What is the title of the story?

Who are the main characters?

What is the main idea (moral)?

Which part did you like the most and why?

 Section B: Writing Skills

2. Paragraph Writing

Write a paragraph (100–120 words) on any one topic:

My Favourite Holiday

Importance of Trees

A Visit to a Hill Station

3. Letter Writing

Write an informal letter to your friend describing how you spent your holidays.

4. Story Writing

Write a short story using the beginning:

 “One day, while walking alone, I found a mysterious box...”

 Section C: Grammar

5. Tenses Practice

Write 5 sentences each in:

Present Tense, Past Tense, Future Tense

6. Parts of Speech

Find and write:

5 Nouns, 5 Verbs, 5 Adjectives, 5 Adverbs

7. Synonyms & Antonyms

Write the synonyms and antonyms of the following words.

Happy, Joyful, Sad, Big, Large, Small, Fast, Quick, Slow

(Add 5 more words)

 Section D: Creative Work

8. Poster Making

Make a poster on:

 "Save Environment" or

 "Clean India, Green India"

SUBJECT HINDI

बीष्मकालीन अवकाश गृहकार्य

कक्षा-8 विषय - हिंदी (सत्र - 2026-27)

- सभी प्रश्नों के उत्तर केवल हिंदी अभ्यास पुस्तिका में ही लिखिए।

प्र.1. अबलिखित पाठों को ध्यानपूर्वक पढ़ें 1. स्वदेश (कविता) 2. दो गौरैया

3. एक आशीर्वाद (कविता) और प्रतिदिन पाँच कठिन शब्दों की वर्तनी लिखें।

प्र.2 आपको छुट्टियों में किसके घर जाना सबसे अच्छा लगता है? वहाँ की दिनचर्या अलग कैसे होती है? अपने मित्र को पत्र लिखकर बताइए।

प्र.3. नीचे दिए गए वाक्य से कहानी पूरी करें:

 "एक दिन मैंने अपने घर के पास एक घायल चिड़िया देखी..."

प्र.4 संज्ञा और विशेषण के भेदों की परिभाषा देते हुए 5-5 उदाहरण लिखिए?

प्र.5 निम्नलिखित पर अनुच्छेद लिखिए-

क) मेरा प्रिय भारत वर्ष

ख) यदि मैं एक पक्षी होता/होती

प्र.6 दो गौरैया और एक आशीर्वाद (कविता) पाठों का सारांश लिखिए?

प्र.7. पढ़ाए गए सभी पाठों की पुनरावृत्ति करें और प्रश्न उत्तर याद करें।

प्र.8. परियोजना कार्य-

किन्हीं दो पक्षियों के विषय में निम्न जानकारी एकत्र कीजिए (इन्टरनेट या पुस्तकों द्वारा) और स्कैप बुक में चिपकाइए। (चित्र सहित)

1. घोंसला किस पक्षी का था। (पक्षी का चित्र)
2. घोंसला किन चीजों से बनाया गया था। (घोंसले का चित्र)
3. घोंसले में रखे हुए अंडों का आकार और रंग क्या था। (अंडों का चित्र)
4. घोंसला कहाँ बना था। (स्थान का चित्र)

SUBJECT MATHS

Instructions for Submission:-

- * Use Homework notebook for solving. Do not copy solutions from Google/Internet.
- * Submission Date:- First day after summer vacation.
- * All work must be handwritten.
- * Marks will be awarded for neatness, completeness, and creativity.
- * If any question is not clear, students may leave it or ask on WhatsApp.

VERY VERY IMPORTANT:-

- * Learn all squares (1-30) and cubes (1-20).

Chapter :- 1 A Square and a Cube

Task 1:- Squares and Cubes Practice

Find the following:

1. $12^2 =$ _____

2. $15^2 =$ _____

3. $25^2 =$ _____

4. $7^3 =$ _____

5. $9^3 =$ _____

6. $12^3 =$ _____

Task 2:- Identify

Write whether the number is a Perfect Square / Perfect Cube /

Both

1. 64 = _____

2. 36 = _____

3. 125 = _____

4. 100 = _____

5. 216 = _____

Task 3:- Square Roots and Cube Roots

1. $\sqrt{81} =$ _____

2. $\sqrt{144} = \underline{\hspace{2cm}}$

3. $\sqrt[3]{27} = \underline{\hspace{2cm}}$

4. $\sqrt[3]{125} = \underline{\hspace{2cm}}$

Task 4:- Pattern Activity

$1^2 = 1$

$2^2 = 4$

$3^2 = 9$

👉 Continue till 15^2

🧠 **Task 5:- Creative Activity**

📊 **Draw and show:**

✓ Square numbers pattern

✓ Cube (3D figure)

Decorate with colours and labels

SECTION B - CHAPTER 2: POWER PLAY

Task 6:- Exponential Form

1. $2 \times 2 \times 2 \times 2 = \underline{\hspace{2cm}}$

2. $5 \times 5 \times 5 = \underline{\hspace{2cm}}$

3. $10 \times 10 \times 10 = \underline{\hspace{2cm}}$

Task 7:- Simplify Using Laws

1. $2^3 \times 2^2 = \underline{\hspace{2cm}}$

2. $5^4 \div 5^2 = \underline{\hspace{2cm}}$

3. $(3^2)^2 = \underline{\hspace{2cm}}$

4. $7^2 \times 7 = \underline{\hspace{2cm}}$

Task 8:- Create Your Own Expression

1. Create 10 expressions using powers
2. For each expression:
 - ✓ Write the expression
 - ✓ Solve it step by step
3. Create a real-life situation for each

👉 Example:-

Expression: $2^3 + 4$

Solution:

$$= 8 + 16$$

$$= 24$$

Story/Situation:

Rohan has 2 boxes, each with $2 \times 2 \times 2$ chocolates and 4 packets, each with 4 chocolates.

👉 Total chocolates = 24

Task 9:- WORD PROBLEMS

1. A square garden has side 12 m.
👉 Find its area.
2. A cube-shaped box has side 5 cm.
👉 Find its volume.
3. A number is multiplied by itself 3 times to give 125.
👉 Find the number.
4. Which is greater: 2^5 or 5^2 ?
5. A stack of cubes is arranged such that each side has 4 cubes.

👉 Find total number of cubes.

Task 10:- Solve all the examples given in Chapters 1 & 2

✓ Write each solution neatly in your notebook.

- ✔ Show proper steps and working for every question.
-

Class 8th-SCIENCE

(Session 2026-27)

Project 1: 'The Healthy Detective' Scavenger Hunt & Survey

Turn your home or neighbourhood into a laboratory to find the 'hidden treasures' of health.

- **Lifestyle Disease Detective:** Survey 3-5 family members or neighbors to identify the top three most common lifestyle-related issues (e.g., lack of sleep, poor diet, little exercise).

Project 2: The Kitchen Cabinet Hunt: Find and list 5 natural, unprocessed food items in the kitchen that act as 'fuel' for health, and 3 processed items to avoid.

Project 3: Kitchen Cell Modelling (Art & Biology)

Activity: Create a 3D model of a Plant or Animal Cell using kitchen items like lentils, rice, pasta, and jelly.

Task: Label the nucleus, cell wall, and cytoplasm, explaining their roles.

Project 4: 'Microbe Detective' Infographic (Creative Writing)

Activity: Research the difference between bacteria, virus, and fungi.

SUMMER VACATION (8.05.2026 to 16.06.2026)

CLASS - VIII

SOCIAL SCIENCE

1. Map work-

- (i) Label and locate states and union territories with their capitals on India Map and paste in your notebook.
- (ii) Label and locate Continents and Oceans on World Map and paste in your notebook.
2. Write the Fundamental Rights and Fundamental Duties of the Indian Constitution.
3. Write about a tourist place of India which you like the most.
4. What is the main purpose of the International Solar Alliance (IASA), launched by India and France?
5. How can India avoid the 'Natural Resource Curse'?
6. Differentiate between the administration under Delhi sultanate and under Mughal empire.
7. Write a paragraph on World Environment Day (5 June).
8. What are renewable resources? How are they different from non-renewable ones? What can people do to ensure that renewable resources continue to be available for our use and that of future generations? Give two examples.
9. Write about on a local historical place nearby you.
10. Write and learn the 'Preamble' of the Indian Constitution.
11. What are some considerations to keep in mind in the production of goods for our current use?

SUBJECT - SANSKRIT

–आठवीं

संस्कृतम्

शब्दरूपाणि

- दधि, विद्वस्, भवत् तथा भवती इन सभी शब्द को सातों विभक्तियों में लिखें।
- यद् और इदम् इन दोनों सर्वनाम शब्दों को तीनों लिंगों में तथा सभी विभक्तियों में लिखें।
- एक, द्वि, त्रि तथा चतुर इन सभी संख्यावाची शब्द को सातों विभक्तियों में लिखें।

धातुरूपाणि

- भू, गम्, पा, स्था, नी दृश् तथा इष् इन सभी धातुओं के लट्, लृट्, लोट्, लङ् तथा विधिलिङ् इन पांचों लकरो में लिखें।
- प्रथम पाठ के सभी श्लोकों को लिख कर तथा स्मरण करके आएं।
- प्रथम तथा द्वितीय पाठ के सभी प्रश्नोत्तर स्मरण करें।
- संस्कृत साहित्यशास्त्र में महाकवि कालीदास की भूमिका तथा उनके ग्रंथों का परिचय लिख कर लाएं।
- सन्धि किसे कहते हैं स्वर सन्धि तथा व्यंजन सन्धि लिखें।
- विकसित भारत के निर्माण में संस्कृत का योगदान इस विषय पर लघु शोध लिखकर लाएं।

उपरोक्त दिया गया गृहकार्य लिखकर व स्मरण करके आएं।

SUBJECT ART

Class 8- Calligraphy of International Yoga Day 2026 Slogan writing (chart paper)

PM SHRI KV MIRAN SAHIB, JAMMU
HOLIDAY HOMEWORK
SUMMER VACATION
(08.05.2026 to 16.06.2026)
CLASS – 9

SOCIAL SCIENCE

1. Map work (Label and locate states and union territories with their capitals on India Map and paste in your notebook)
2. Write about a local historical place nearby you.
3. Write a paragraph on World Environment Day (5 June).
4. "Democracy is considered better than other forms of government." Justify the statement.
5. Explain the scope of Social Science by describing Geography, History, Political Science, and Economics, and show how they overlap in real life.
6. Write about the features of democracy.
7. Explain the major causes of floods in India and suggest effective flood management measures.
8. Describe the major seasons of India and explain the climatic conditions associated with each season.
9. What are the main functions of the Election Commission of India?
10. What are the challenges to free and fair elections in India?
11. Write the Fundamental Rights and Fundamental Duties of the Indian Constitution.
12. Write and learn the 'Preamble' of the Indian Constitution.

SUBJECT: ARTIFICIAL INTELLIGENCE

CLASS : 9TH

ICT Skills – I (Chapter 3: Introduction to Operating System)

Part A – Very Short Answer Questions

What is an Operating System?

Name any two types of Operating Systems.

What is the function of a Real-Time Operating System?

What is a Single-User Operating System?

Define a Multi-Tasking Operating System.

Part B – Short Answer Questions

Differentiate between GUI and CUI.

Write the steps to create a new folder in Windows 10.

Explain the process of renaming files and folders.

Write the steps to delete a file or folder.

Differentiate between copying and moving files.

Explain any two methods of copying files and folders.

Write the steps to permanently delete files from Recycle Bin.

Explain the importance of computer maintenance.

Part C – Long Answer Questions

Explain different types of Operating Systems with examples.
Describe the components of Windows 10 desktop.
Explain file management in Windows 10.
Write the methods of moving files and folders in detail.
Explain how to protect a computer against viruses.
Part D – Practical Activity
Create a folder named "Holiday Homework" on your desktop.
Create two subfolders inside it named "ICT" and "AI".

SUBJECT -ENGLISH

1. Read any short story (from your textbook or a storybook) and answer:
What is the title of the story?
Who are the main characters?
What is the main idea (moral)?
Which part did you like the most and why?
2. Tenses Practice
Write 5 sentences each in:
Present Tense
Past Tense
Future Tense
3. Prepare one Travel brochure by choosing a place of your choice. Travel Brochure Project
Art-Integrated Project *Marks:* 10
Step 1: Choose Place – Give Options
Kathmandu, Your City, A Hill Station you visited
Step 2: Format – Simple 4-Panel Fold
Take A4. Fold in half = 4 sides.
| 4. Back | 1. Cover | <- Outside
| 3. Culture | 2. Places | <- Inside
Step 3: What to Write – Panel by Panel
Panel 1: Cover Page
1. *Title:* KATHMANDU: City of Temples OR JAMMU: City of Beauty
2. *Drawing:* 1 main attraction. Ex: Pashupatinath / Raghunath Temple
3. *Tagline:* 3-4 words. Ex: "Where Faith Meets Mountains"
Panel 2: Top 2 Places to See
Use simple bullets. 20 words each.
Ex for Kathmandu:
1. *Pashupatinath Temple* – Famous Hindu temple on Bagmati river. Many sadhus come here.
2. *Boudhanath Stupa* – Big white dome. Buddhist people walk around it praying.
Panel 3: Culture + Local Art – ART INTEGRATION
Must draw 1 Indian art. 30 words total.
Ex for Jammu:
Food: Rajma-Chawal, Kalari cheese
Festival: Baisakhi – People dance Kud
Art: Basohli Painting – Draw small Basohli face with bold colors
Panel 4: Back – Why Visit + Info

1. *Why Visit:* Give 2 reasons. Start with _You should visit because..._
2. *Best Time:* Oct to March
3. *By:* Name, Class 9, Sec, Roll No

SUBJECT - MATHS

A . ACTIVITIES

ACTIVITY 1- SQUARE ROOT SPIRAL

Instructions:

o Represent $\sqrt{2}$, $\sqrt{3}$, $\sqrt{4}$, $\sqrt{5}$, $\sqrt{6}$, $\sqrt{7}$, in a continuous manner.

A sample image for the spiral has been attached, use your creativity to create the square root spiral.

ACTIVITY 2- To verify algebraic identities $(a+b)^2$ experimentally. (by cutting and pasting)

ACTIVITY 3- Plot the points on a graph and shade the figure .(Join the Coordinates to form shapes like house, cat, star etc.

B. PROJECT:

Choose any one project.

: TOPIC: NUMBER SYSTEM

History of number system .

Discuss number system specifying natural numbers, whole numbers , integers, rational numbers and irrational numbers

.(flow chart).

OR

TOPIC: COORDINATE GEOMETRY:

History of coordinate geometry

Cartesian plane

iii) Use of coordinate geometry in real life

C. ASSIGNMENT

TOPIC: NUMBER SYSTEM

Classify the following as rational or irrational numbers:

$\sqrt{2}$, 1.5, 0.333..., $\sqrt{49}$, π , $-3/4$

Write five rational numbers between:

1 and 2

-1 and 0

Write the decimal expansions of:

$1/8$

$22/7$

1/3

And state whether the decimals are terminating or non-terminating recurring.

Create a table showing five irrational numbers and explain how each is identified as irrational.

Without actual division, state whether the decimal representation of the following will terminate or not:

$7/20$

$23/90$

$5/16$

$4/11$

True or False (with reason):

$\sqrt{2}$ is a rational number.

Every real number is either rational or irrational.

The product of two irrational numbers is always irrational.

Express the following as a rational number in p/q form:

0.666...

1.272727...

0.818181...

Insert three irrational numbers between $\sqrt{2}$ and $\sqrt{3}$.

On the number line, mark the positions of:

0, 1, $\sqrt{2}$, $\sqrt{4}$

TOPIC: COORDINATE GEOMETRY

MCQ:

The point (0, 0) is called:

Origin

X-axis

Y-axis

Quadrant

The coordinates of a point on the x-axis are of the form:

(0, y)

(x, 0)

(x, y)

(y, 0)

The coordinates of a point on the y-axis are of the form:

(x, 0)

(0, y)

(x, x)

(y, y)

In which quadrant does the point (3, -4) lie?

First

Second

Third

Fourth

The point $(-2, -3)$ lies in:

First quadrant

Second quadrant

Third quadrant

Fourth quadrant

The x-coordinate of a point is called:

Ordinate

Abscissa

Origin

Axis

HINDI

ग्रीष्मकालीन अवकाश गृहकार्य

कक्षा-9

विषय - हिंदी

(सत्र - 2026-27)

- सभी प्रश्नों के उत्तर केवल हिंदी अभ्यास पुस्तिका में ही लिखिए।

प्र.1. पाठों को ध्यानपूर्वक पढ़ें 1. दो बैलों की कथा 2. क्या लिखूँ और प्रतिदिन 2

नए शब्द लिखें (कुल लगभग 40-50 शब्द) और उनके अर्थ भी लिखें।

प्र.2 “आपने अपनी गर्मी की छुट्टियाँ कैसे बिताई अपने मित्र को पत्र लिखकर बताइए।

प्र.3. नीचे दिए गए वाक्य से कहानी पूरी करें:

👉 “एक दिन मैं नदी के किनारे टहल रहा/रही था, तभी मुझे कुछ अनोखा दिखाई दिया...”

प्र.4 संज्ञा और विशेषण के भेदों की परिभाषा देते हुए 5-5 उदाहरण लिखिए?

प्र.5 निम्नलिखित पर अनुच्छेद लिखिए-

क) एक भारत श्रेष्ठ भारत

ख) पर्यावरण का महत्व

प्र.6 दो बैलों की कथा और क्या लिखूँ पाठों का सारांश लिखिए?

प्र.7. पढ़ाए गए सभी पाठों की पुनरावृत्ति करें और प्रश्न उत्तर याद करें।

प्र.8. परियोजना कार्य-

“गंगा नदी” या किसी एक नदी के विषय में निम्न जानकारी एकत्र कीजिए

(इन्टरनेट या पुस्तकों द्वारा) और स्क्रीन बुक में चिपकाइए। (चित्र सहित)

1. नदी का उद्गम स्थल (स्थान का नाम और चित्र)
2. किन-किन राज्यों से गुजरती है (संभव हो तो मानचित्र पर दर्शाइए और राज्यों के नाम बताइए)
3. इसका महत्व (सांस्कृतिक/आर्थिक)
4. प्रदूषण के कारण
5. संरक्षण के उपाय

SCIENCE

Instructions.

- The work should be handwritten on fair notebook. Printouts are not allowed

Assignment 1

Complete Subject Enrichment Activity 2.2 (Chapter 2)

- a) Write the procedure of this activity.
- b) Write down the observation of this activity
- c) Write about the phenomenon responsible for these observations.

Assignment 2 (ART INTEGRATED WORK)

Draw a well labelled diagram of the plant cell or an animal cell using these clues-

- a) Nucleus appears as a dark and round body inside the cell.
- b) ER spreads like a network of extended nuclear envelope
- c) Mitochondria and chloroplasts are rod shaped

Assignment 3 (ART INTEGRATED WORK)

Draw well labelled diagram of -

1. Bacterial cell
2. Cell organelles that you have studied

Assignment 4

Differentiate between the following pairs of terms based on the clues given in parentheses:

- a) Cell membrane and cell wall (permeability)
- b) RER and SER (structure)
- c) Chloroplast and Chromoplast (pigment)

Assignment 5

Prepare a model for NCSC (National children's science congress)

Model projects Under Sub-Themes

- 3.1 R5 for Waste Management (Reduce, Reuse, Retrieve, Redesign & Recycle)
- 3.2 E4 for Energy: Explore, Experiment, Enhance & Evolve
- 3.3 Water: Harvesting, Harnessing, Recycling & Conservation
- 3.4 Food, Agriculture & Health
- 3.5 Application of Indian Knowledge Systems for Sustainability

Class:10th

Subject: Science

Assignment 1. (ART INTEGRATED WORK)

Make a mind map of different types of reactions with examples.

Assignment 2.

Make a list of different compounds used in your home with their name, chemical formula and common name (at least 10)

Assignment 3.

Write names and formulae of 10 different salts. Find out the parent acids and bases from which they are made and predict whether they will be acidic, basic or neutral in nature. (Refer to activity 2.14 of NCERT textbook).

Assignment 4.

Write the answers of exercise questions for chapter 1, 2 & 3.

Assignment 5. (ART INTEGRATED WORK)

Draw well labelled diagrams of human digestive system, Nephron, Respiratory system, Stomata & Excretory system

Assignment 6.

Write briefly about No. of chambers in the heart of Fishes, amphibia, reptiles, mammals and birds.

Assignment 7.

Complete experiments (written work) in your practical file/lab manual.

Subject -English

SUMMER BREAK HOMEWORK

Q2 PREPARE AN ART INTEGRATED PROJECT ON TOPIC" DUST OF SNOW"

Art Integration: Connect poem with any Indian art form

Goal: Show how a small moment in nature changes mood. Link "poem theme" + "visual art" + "personal reflection".

How to prepare it

Materials:* SCRAP BOOK /USE OF THICK BROWN SHEETS, white pen, real twigs, cotton, glue.

Steps

1. Background:Stick real dry twig = hemlock. Crow craft
2. Use cotton = snow on branch.

3. Paper cutting Crow + poet standing sad. Arrow showing "snow falls" → poet smiling.
 4. Label: "Crow = negative omen → positive change. Shows symbols change".
 5. Add quote + personal moment in 40 words. (One dust of snow moment from your life when mood changed.(e.g friend's joke,rain,music etc.)
 6. Write the poem in calligraphy style.(Dust of snow)
 7. Creative mind map of poetic device
- One self made poem on nature in minimum 4 lines and maximum 8 lines by following rhyme scheme.

AI

CLASS : 10TH

(Chapter 2: Advanced Concepts of Modelling in AI)

Part A – Short Answer Questions

1. Define Artificial Intelligence (AI).
2. What is Machine Learning (ML)?
3. Define Deep Learning (DL).
4. Write the relationship between AI, ML, and DL.
5. Give one example of AI used in daily life.
6. What is labeled data?
7. What is the role of hidden layers in Deep Learning?
8. Differentiate between supervised and unsupervised learning.
9. What is reinforcement learning?
10. Define neural networks.
11. What is object classification?
12. What are features and labels in data?
13. Write two applications of Deep Learning.
14. What is anomaly detection?
15. Name two subtypes of supervised learning.

Part B – Long Answer Questions

1. Explain the differences between AI, ML, and DL with examples.
2. Describe how Machine Learning works with a suitable analogy.
3. Explain the rule-based and learning-based approaches of modelling.
4. Describe the categories of learning-based models.

5. Explain the working of neural networks with layers.

Activity Work/ Project Work

1. Prepare a chart showing the relationship between AI, ML, and DL.
2. Collect pictures of AI applications used in daily life and paste them in your notebook.

CLASS : 10TH

SUBJECT : MATHS

Dear Students,

• Summer vacation is the best and the most fruitful time for learning and nurturing creativity. Keeping this objective in mind we have planned diverse and exciting activities that will enhance your knowledge and boost your creativity.

• Get up early in the morning and see the rising sun. Do indoor exercises/yoga and stay healthy and fit.

• "A healthy mind lives in a healthy body". So play the sport of your choice INDOORS. It will help to instill discipline, generate sporting spirits and channelize your energies constructively.

• Keep away from smartphones, virtual games and digital technologies. Spend quality time with your elders and share your thoughts and ideas

General Instructions-

- * Submit your journal in a file with a cover page and index.
- * Present your work neatly and as creatively as possible.
- * The work should be handwritten. Printouts are not allowed.

A. Prepare a Maths Journal- Using Art with Maths

The journal should contain the following articles:

TOPIC : To know about π . Investigate the various historical aspect of number π . (For even Roll nos)

- i) Find about π in ancient civilisation
- ii) Give different approximation for π
- iii) Relate circle with π
- iv) State the famous mathematical problems featuring π .

TOPIC : Discuss about number system. (For odd Roll numbers)

NUMBER SYSTEM- REAL NUMBERS

- i) History of number system.
- ii) Discuss number system specifying natural number, whole number, integer, rational and irrational numbers.
- iii) Differentiate between Rational and Irrational number.
- iv) Discuss Real number with example .
- v) Use Venn diagram to explain number system .
- vi) Importance of number system in everyday life.

B. Complete the **SUBJECT ENRICHMENT ACTIVITIES** .

1. TOPIC: POLYNOMIALS: To draw the graph of quadratic polynomial and observe.

- (i) The shape of the curve when the coefficient of x^2 is positive.
- (ii) The shape of the curve when the coefficient of x^2 is negative.
- (iii) Its number of zeroes.

2. TOPIC: PAIR OF LINEAR EQUATIONS IN TWO VARIABLES: To verify the conditions of consistency/inconsistency for a pair of linear equations in two variables by graphical method.

3. TOPIC: ARITHMETIC PROGRESSION: To identify Arithmetic Progressions in some given lists of numbers (patterns).by paper cutting and pasting.

4. TOPIC: AREA RELATED TO CIRCLES : Area of circle by cutting and pasting method.

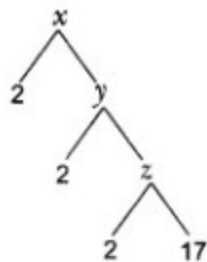
NOTE: ALL THE SUBJECT ENRICHMENT ACTIVITIES TO BE DONE IN A PRACTICAL NOTEBOOK.

C. Do the **WORKSHEET** in a separate notebook .

WORKSHEET

CH:1: REAL NUMBERS :

1. Find the value of x, y and z in the given factor tree.



- 2. Can two numbers have 15 as their HCF and 175 as their LCM? Give reasons
- 3. Find the least number that is divisible by all the numbers from 1 to 10 (both inclusive).
- 4. If the HCF of 65 and 117 is expressible in the form $65m - 117$, then find the value of m.
- 5. If $\text{HCF}(6, a) = 2$ and $\text{LCM}(6, a) = 60$, then find the value of a.
- 6. Find HCF and LCM of 225 and 90 and verify that $\text{HCF} \times \text{LCM} = \text{Product of the two given numbers}$.
- 7. Floor of a room is to be fitted with square marble tiles of the largest possible size. The size of the room is $10 \text{ m} \times 7 \text{ m}$. What should be the size of tiles required that has to be cut and how many such tiles are required.
- 8. The length, breadth and height of a room are 8 m 50 cm, 6 m 25 cm and 4 m 75 cm respectively. Find the length of the longest rod that can measure the dimensions of the room exactly.

9. CASE BASED QUESTION:

1. To enhance the reading skills of grade X students, the school nominates you and two of your friends to set up a class library. There are two sections- section A and section B of grade X. There are 32 students in section A and 36 students in section B.

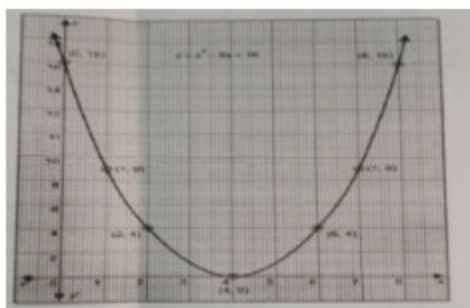


Now answer the following questions.

- (i) What is the minimum number of books you will acquire for the class library, so that they can be distributed equally among students of Section A or Section B?
- (ii) If the product of two positive integers is equal to the product of their HCF and LCM is true then find the HCF (32, 36).
- iii) Express 36 can be expressed as a product of its primes.
- (iv) Explain, why $7 \times 11 \times 13 \times 15 + 15$ is a composite number?

CH 2: POLYNOMIALS

1. A quadratic polynomial can have atmost _____ zeroes .
2. The number of polynomials having zeroes as 4 and 7 is -----
3. In a polynomial $p(x)$, if the curve intersect the x axis at three points, then the number of zeroes are _____
- 4 . Find the sum of the zeroes of the polynomial $x^2 - 8x + 6$.
5. Write a quadratic polynomial, whose zeroes are -5 and -6
6. Find a quadratic polynomial, the sum and product of whose zeroes are i) -3 and 2 , ii) $\sqrt{2}$ and $\frac{1}{3}$
7. If one zero of the quadratic polynomial $x^2 + 3x + k$ is 2, then find the value of k
8. Find the zeroes of the quadratic polynomial and verify the relationship between zeroes and the coefficients:
 - i) $6x^2 - 3 - 7x$
 - ii) $4x^2 - 4x - 8$.
9. If α and β are zeroes of a quadratic polynomial such that $\alpha + \beta = 24$ and $\alpha - \beta = 8$. Find the quadratic polynomial having α and β as its zeroes
10. **CASE BASED QUESTION:** In a class test the teacher assign a question to plot the graph of the polynomial A student plot the graph of the polynomial as shown in the fig. above, which also represent mathematical shape. Now answer the following questions given below.



- Geometrically the polynomial has ----- zeroes .(refer to above graph)
- What will be the expression of the polynomial .
- What is the value of the polynomial if $x = -1$
- Name the mathematical shape represented by the graph

CH 3: LINEAR EQUATION IN TWO VARIABLES :

- For what value of k , the pair of linear equations $3x - y = 5$ and $6x - 2y = k$ does have infinitely many solutions?.
- What type of straight lines will be represented by the system of equations $2x + 3y = 5$ and $2x - 3y = 7$?
- Find whether the lines representing the following pair of linear equations intersect at a point, are parallel or coincident: $2x - 3y + 6 = 0, 4x - 5y + 2 = 0$
- If the lines given by $3x + 2ky = 2$ and $2x + 5y + 1 = 0$ are parallel, then find value of k .
- For which value of k will the following pair of linear equations have no solution?

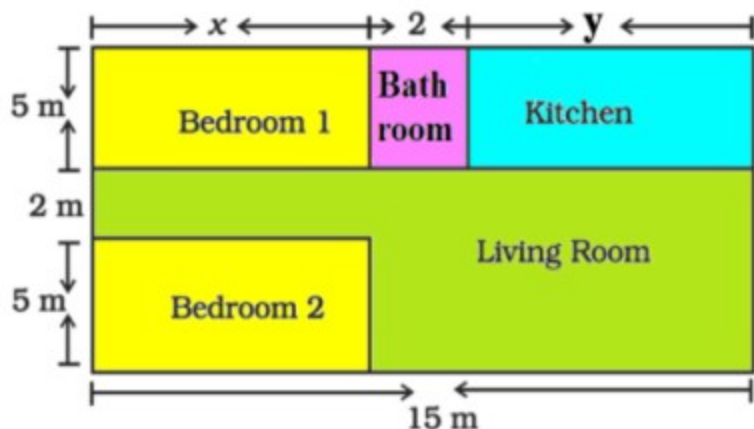
$$3x + y = 1$$

$$(2k - 1)x + (k - 1)y = 2k + 1$$

- Draw the graph of the equations: $4x - y = 4$ and $4x + y = 12$. Shade the area bounded by the lines and y -axis. Also find the vertices of the triangle so formed and its area.

7.CASE STUDY BASED QUESTION:

Amit is planning to buy a house and the layout is given below. The design and the measurement has been made such that areas of two bedrooms and kitchen together is 95 sq.m.



Based on the above information, answer the following questions:

- Form the pair of linear equations in two variables from this situation.
- Find the length of the outer boundary of the layout.
- Find the area of each bedroom and kitchen in the layout.
- Find the area of living room in the layout.
- Find the cost of laying tiles in kitchen at the rate of Rs. 50 per sq.m

CH4: QUADRATIC EQUATION

- Write the nature of roots of the quadratic equation : $9x^2 - 6x - 2 = 0$.
- Find the values of 'k' for the following quadratic equation, so that they have real and two equal roots.
 - $9x^2 - 3kx + k = 0$
 - $2x^2 - (K-1)x + 8 = 0$
- If one root of the quadratic equation $2x^2 + Kx - 6 = 0$ is 2. Find the value of K.
- Find the discriminant of the equation $2x^2 - x + 4 = 0$ and hence find the nature of its roots. Find roots, if they are real. (using quadratic formula)
- If α, β , are the roots of the quadratic equation $x^2 + x + 1 = 0$, then find the value of $\frac{1}{\alpha} + \frac{1}{\beta}$.
- Find the roots of the following equation:

$$\frac{1}{x+4} - \frac{1}{x-7} = \frac{11}{30}, x \neq -4, 7.$$

7. CASE BASED QUESTION :

Raj and Ajay are very close friends. Both the families decide to go to Ranikhet by their own cars. Raj's car travels at a speed of x km/h while Ajay's car travels 5 km/h faster than Raj's car. Raj took 4 hours more than Ajay to complete the journey of 400km.

Based on the above information, answer the following questions:



- i) What will be the distance covered by Ajay's car in two hours?
- ii) Which of the following quadratic equation describe the speed of Raj's car?
- iii). What is the speed of Raj's car?
- iv). How much time took Ajay to travel 400 km?

HINDI

ग्रीष्मकालीन अवकाश गृहकार्य

कक्षा - 10

विषय - हिंदी

(सत्र - 2026-27)

- सभी प्रश्नों के उत्तर केवल हिंदी अभ्यास पुस्तिका में ही लिखिए।

1- बहु-विषयक परियोजना कार्य (MDP): महाकवि सूरदास, तुलसीदास या सुभाष चन्द्र बोस के व्यक्तित्व एवं कृतित्व पर प्रकाश डालते हुए एक प्रोजेक्ट फाइल तैयार कीजिए।

2- 'हिंदी भाषा का बढ़ता महत्व' और 'ग्लोबल वार्मिंग' पर अनुच्छेद।

3- पाठ नेताजी का चश्मा में आपने पढ़ा कि नगर पालिका इस कस्बे में कुछ ना कुछ छोटे-मोटे कार्य करती रहती थी। नगर पालिका के अधिकारी या बोर्ड ने बाजार के मुख्य चौराहे पर संगमरमर की पत्थर से बनी नेताजी सुभाष चंद्र बोस की प्रतिमा लगवा दी।

आप अपने आसपास पता करिए कि पिछले वर्षों में नगरपालिका ने कौन-कौन से विकास कार्य करवाए हैं। हमारी भूमिका उसमें क्या हो सकती है, लिखिए।

4- पाठ माता का अंचल में बच्चों की जो दुनिया रची गई है वह आपके बचपन की दुनिया से किस प्रकार भिन्न है। विचार करिए और लिखिए।

5- किसी हिंदी समाचार पत्र के संपादकीय पेज से पाँच अपठित गद्यांश तैयार कीजिए और उनमें कम से कम पाँच-पाँच प्रश्न (उत्तर) बनाइए।

6- पत्र लेखन:

- औपचारिक पत्र : 1. प्रदूषण की समस्या पर नगर निगम अधिकारी को लिखिए।
2. बस में सामान छूटने पर यातायात अधिकारी को पत्र लिखिए।

- अनौपचारिक पत्र : 1. मित्र को करियर काउंसलिंग वर्कशॉप के बारे में पत्र लिखिए

2. छोटे भाई को समय का महत्व बताते हुए पत्र लिखिए।

7- पाठ साना साना हाथ जोड़ी में लेखिका ने हिमालय के जिन-जिन रूपों का चित्र खींचा है, उन्हें अपने शब्दों में लिखिए।

8- पाठ साना साना हाथ जोड़ी में प्रकृति के उस अनंत और विराट स्वरूप को देखकर लेखिका को कैसी अनुभूति होती है?

9- पढ़ाए गए सभी पाठों की पुनरावृत्ति करें और प्रश्न उत्तर याद करें।

SOCIAL SCIENCE

1. Map work (Label and locate states and union territories with their capitals on India Map and paste in your notebook)

2. Do Map practice of History and Geography.

3. “Money in your pocket cannot buy all the goods and services that you may need to live well.” Justify the statement with example.

4. What are the different forms of power sharing in modern democracies? Give an example of each of these.

5. Write the Ethnic composition of Belgium and Sri Lanka.

6. What criteria does UNDP compare to measure the human development index? Explain.

7. Briefly trace the process of German and Italy unification.
8. What steps did the French revolutionaries take to create a sense of collective identity among the French people? Write any five.
9. Prepare a project in a project file on any one the topic “Consumer Rights OR Social Issues OR Sustainable Development.
(15-20 A4 size papers)
10. Learn and revise all the completed chapters. (History, Geo, Pol Science and Economics)
11. Briefly trace the geographical and ethnic variations of the Balkans region. Why did this region become politically very explosive?
12. What was the main aim of the Treaty of Vienna 1815? What were the main provisions of the Treaty of Vienna held in 1815?

PM SHRI KV MIRAN SAHIB
SUMMER HOLIDAYS HOMEWORK

CLASS XI A

– MATHEMATICS HOLIDAY HOMEWORK

*** SETS**

1. Write definitions with examples:

- Set, Empty Set, Finite & Infinite Sets
- Equal Sets, Subsets

2. Solve:

- List all subsets of $\{1, 2, 3\}$
- Identify universal set in daily life examples

Activity:

Prepare a chart showing types of sets with examples.

*** OPERATIONS ON SETS**

1. Practice:

- Union, Intersection, Difference
- Complement of a set

2. Solve:

- $A = \{1, 2, 3, 4\}$, $B = \{3, 4, 5, 6\}$
Find $A \cup B$, $A \cap B$, $A - B$, $B - A$

 **Project Work:**

Draw Venn Diagrams for real-life situations (students playing cricket/football).

*** VENN DIAGRAM & APPLICATIONS**

1. Solve word problems:

- Students liking Tea/Coffee
- Survey-based questions

 Case Study:

In a class of 40 students:

- 25 like Maths
- 20 like Science
- 10 like both

Find:

- Students who like only one subject
- Students who like neither

***INTRODUCTION TO RELATIONS**

1. Define:

- Ordered pairs
- Cartesian product
- Relation

2. Solve:

- $A = \{1,2\}$, $B = \{3,4\}$
Find $A \times B$

 Activity:

Create ordered pairs using real-life examples (student-marks, player-score).

*** TYPES OF RELATIONS**

1. Study:

- Reflexive
- Symmetric
- Transitive

2. Identify relation type:

- $R = \{(1,1), (2,2)\}$
- $R = \{(1,2), (2,1)\}$

 Practice:

Give one example each from daily life.

*** FUNCTIONS**

1. Define:

- Function
- Domain, Codomain, Range

2. Solve:

- $f(x) = x^2$, find $f(2)$, $f(-3)$
- Identify domain and range

 Activity:

Draw graphs of simple functions like:

- $f(x) = x$
- $f(x) = x^2$

PROJECT WORK (COMPULSORY)

Project 1: Sets in Daily Life

- Collect data (favourite sports, subjects, etc.)
- Represent using Venn diagrams
- Write conclusion

Project 2: Functions Around Us

- Examples of functions in real life:
 - Marks vs Students
 - Price vs Quantity
- Draw graphs and explain

PM SHRI Kendriya Vidyalaya Miran Sahib Jammu

Summer Holiday Homework

Class 11th-Chemistry

(Session 2026-27)

1. INVESTIGATORY PROJECT(any one)

Scientific investigations involving laboratory testing and collecting information from

- a) Checking the bacterial contamination in drinking water by testing sulphide ion
- b) Study of the methods of purification of water
- c) Testing the hardness, presence of Iron, Fluoride, Chloride, etc., depending upon the regional variation in drinking water and study of causes of presence of these ions above permissible limit (if any).
- d) Investigation of the foaming capacity of different washing soaps and the effect of addition of Sodium carbonate on it
- e) Study the acidity of different samples of tea leaves.
- f) Determination of the rate of evaporation of different liquids
- g) Study the effect of acids and bases on the tensile strength of fibers.
- h) Study of acidity of fruit and vegetable juices.

2. Solve 20 numerical problems including

- mole concept
- Limiting reagent
- Percentage composition

From chapter some basic concepts of chemistry with step by step solutions. Students prepare a **handwritten notebook**

KENDRIYA VIDYALAYA MIRAN SAHIB

Summer Holiday Home work (2026-27)

SUBJECT : PHYSICS

CLASS : XI

Welcome to the world of Senior Secondary Physics!

This homework is designed to "bridge the gap" by reinforcing the basics you learned in previous classes that are critical for your success this year.

- **Mechanics (Class IX Review)**

- 1. Kinematics**

- a. On graph paper, plot a Velocity-Time (v-t) graph for an object that: 1. Starts from rest and accelerates uniformly for 5 seconds. 2. Moves with constant velocity for 10 seconds. 3. Decelerates uniformly to a stop in 3 seconds.
- b. Calculate the total distance covered and the acceleration in each phase using the graph. XI Connection: This leads directly to Calculus-based Kinematics and Vector Analysis.

- 2. Newton's Laws in Action**

- a. A 5kg block is pushed across a rough surface with a force of 20N. If the frictional force is 5N, calculate the acceleration of the block.
- b. Why does a cricketer pull their hands back while catching a fast-moving ball? Explain using the concept of Impulse.

- 3. Work, Power, and Energy**

- a. Find the Kinetic Energy of a 1500kg car moving at 72 km/h. o If a 60W bulb is used for 5 hours daily, calculate the energy consumed in kWh for the month of June

- **Optics & Electricity (Class X Review)**

- 1. Ray Diagrams & Mirror/Lens Formula**

- a. Draw neat ray diagrams for a Concave Mirror when the object is placed: (i) Between C and F. (ii). At F.
- b. An object 5 cm tall is placed 25 cm away from a converging lens of focal length 10 cm. Find the position, size, and nature of the image.

- 2. Circuit Analysis**

- a. Draw a circuit diagram containing three resistors 2Ω , 3Ω , & 6Ω connected in parallel, attached to a 12V battery and an ammeter.
- b. Calculate the Equivalent Resistance and the Total Current flowing through the circuit.

- **Read the first Chapter 'Units and Measurements'.**

- Write down formulas and dimensions of 50 Physical Quantities.

Submission Guidelines:

1. Use a separate thin notebook for all numericals and diagrams.
2. Diagrams must be drawn with a sharp pencil and ruler.

SUMMER HOLIDAY HOMEWORK

BIOLOGY

- Revise Chapter 1
- Solve all the NCERT exercise questions of Chapter 1 in your notebook.
- Complete Practical 1: Study of Compound Microscope in your practical notebook with proper diagrams.
- Complete Practical 2: completed in practical class.
- Read Chapter 2: *Biological Classification* to develop a basic understanding of the topic.
- Draw a neat and well-labelled table of the Five Kingdom Classification and learn it.

English

1. Prepare ASL project as instructed.
2. Work on tenses and clauses. Worksheets will be provided.
3. Practice Debate and Speech writing.
4. Read chapters 1 and 2 from Hornbill and chapter 1 from snapshots.
5. Practice poetic devices, mood and tone in the poems

HINDI

पाठित पाठ्यक्रम का पुनरावलोकन करें।

लेख लिखें → गर्मियों की छुट्टियों का आनंद,

बचपन की कहानी, प्रकृति अनमोल भेंट।

वितान पुस्तक के पाठों का पठन करें

PM SHRI KV MIRAN SAHIB
SUMMER HOLIDAYS HOMEWORK
ECONOMICS WORKSHEET – CLASS 11

Chapters Covered:

Statistics for Economics

Microeconomics – Chapter 1

1. Statistics in plural sense refers to:

- (a) Data
- (b) Methods
- (c) Both (a) and (b)
- (d) None

2. Which of the following is qualitative data?

- (a) Height
- (b) Weight
- (c) Gender
- (d) Income

3. Primary data is collected by:

- (a) Government
- (b) Investigator himself
- (c) Newspapers
- (d) Books

4. Microeconomics deals with:

- (a) Whole economy
- (b) Individual units
- (c) National income
- (d) Inflation

5. The basic economic problem arises due to:

- (a) Unlimited resources

- (b) Scarcity
- (c) Equality
- (d) Stability

6. Who is known as the father of Economics?

- (a) Keynes
- (b) Adam Smith
- (c) Marshall
- (d) Robbins

7. Opportunity cost refers to:

- (a) Total cost
- (b) Next best alternative forgone
- (c) Fixed cost
- (d) Money cost

8. Census method covers:

- (a) Some units
- (b) All units
- (c) Only rural areas
- (d) Only urban areas

PART B: VERY SHORT ANSWER (1 mark each)

1. Define Statistics.
2. What is data?
3. Define scarcity.
4. What is microeconomics?
5. What is a variable?

 PART C: SHORT ANSWER (3 marks each)

1. Differentiate between primary and secondary data.
2. Explain three features of statistics.

- 3.What are the central problems of an economy?
- 4.Explain opportunity cost with example.
- 5.Distinguish between micro and macroeconomics.

 PART D: LONG ANSWER (5 marks each)

- 1.Explain the importance of statistics in economics.
- 2.Describe stages of statistical study.
- 3.Explain the problem of scarcity and choice.
- 4.Explain PPC with assumptions.

 PART E: CASE STUDY (5 marks)

- 1.A survey is conducted to collect information on income and employment.
 - (a) What type of data is this?
 - (b) Why is data important?
 - (c) Name two statistical tools used in analysis.

ENGLISH

1. Prepare ASL project as instructed.
2. Work on tenses and clauses. Worksheets will be provided.
3. Practice Debate and Speech writing.
4. Read chapters 1 and 2 from Hornbill and chapter 1 from snapshots.
5. Practice poetic devices, mood and tone in the poems

HINDI

पाठित पाठ्यक्रम का पुनरावलोकन करें।
लेख लिखें → गर्मियों की छुट्टियों का आनंद,
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वितान पुस्तक के पाठों का पठन करें

BUSINESS AND ACCOUNTS

- Practice 10 calculations daily
- Read one page every day and write a short summary.
- Read an English newspaper daily.
- Prepare presentations on banking and insurance topics

- Study business and accounting concepts regularly

PM SHRI KV MIRAN SAHIB
SUMMER HOLIDAYS HOMEWORK
CLASS 12TH

SUBJECT: BIOLOGY

Multiple Choice Questions from Chapter: Sexual Reproduction in Flowering Plants

Q.1 The floecting sporogenous tissue in anther are:

- A. Tapetum , Middle layers, Endothecium, Epidermis
- B. Tapetum , Middle layers, Epidermis, Endothecium
- C. Epidermis, Endothecium, Middle layers, Tapetum
- D. Epidermis, Endothecium, Tapetum, Middle layers

Q.3 _____ keeps the exine intact for years:

- A. Epidermis. B. Intine. C. Tapetum. D. Sporopollenin

Q.4 The technique used to preserve pollen and keep them viable for long time span is

- A. Cryopreservation. B. Outbreeding. C. Bagging. D. Emasculation

Q.5 Which of the following is not an outbreeding device:

- A. Herkogamy. B. Emasculation. C. Heterostyly. D. Unisexuality

Q.6 The process of formation of seed without fertilization is called

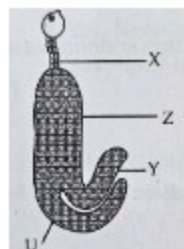
- A. Apomixis B. Parthenogenesis. C. Parthenocarpy. D. Polyembryony

Q.7 What is the function of the stigma?

- A. To produce pollen. B. To receive pollen. C. To produce ovules. D. To protect the flower

Q.8 What is the term for the transfer of pollen from anther to stigma?

A. Xenogamy. B. Pollination. C. Germination. D. More than one option is correct



Q.9 _____ is present in _____ which guides the entry of pollen tube.

- A. Filiform apparatus, Egg cell. B. Filiform apparatus, Synergids
C. Nucellus, Synergids D. Nucellus, Antipodals

Q.10 Perisperm is the remnant of:

- A. Nucleus. B. Nucellus. C. Embryo. D. Endosperm

Q.11 Select the option that shows the correctly identified 'U', 'X', 'Y' and 'Z' in a developing dicot embryo.

- A. X-Plumule (2n), Y-Suspensor (n), Z-Cotyledon (2n), U-Radicle (2n).
B. X-Plumule (2n), Y-Suspensor (2n), Z-Radicle (2n), U-Cotyledon (2n).
C. X-Suspensor (2n), Y-Cotyledon (2n), Z-Radicle (2n), U-Plumule (2n).
D. X-Cotyledon (2n), Y-Radicle (n), Z-Plumule (n), U-Suspensor (n).

Q.12 Certain plants are self-pollinating in nature but we can cross-pollinate them by using techniques such as:

- A. Emasculation. B. Bagging. C. Tagging. D. By manually dusting pollen on stigma

Q.13 Find the incorrect match:

- A. Anemophily - Vallisneria. B. Hydrophily - Zoostera.
C. Entomophily - Mustard. D. Ornithophily - Daylilies

Q.14 Find the odd one out :

- A. 3n, Endosperm, PEN. B. 2n, Polar nuclei, Central cell
C. 1n, Nucellus, Embryosac gametophyte D. 1n, Antipodals, Female

Q.15 The production of microspore from MMC involved following process:

A. Meiosis B. Mitosis. C. Microgametogenesis. D. Megasporogenesis

Q16 and 20 are Assertion and Reason Questions:

A. Both Assertion and reason are true and the reason is the correct explanation of the assertion.

B. Both Assertion and reason are true and the reason is not the correct explanation of the assertion.

C. Assertion is true and Reason is false.

D. Both are incorrect.

Q.16 Assertion: Banana is a parthenocarpic fruit.

Reason: The fruit which includes parts other than ovary are not true fruit.

Q.17 Assertion: The monocots have scutellum.

Reason: It is the endosperm that is left during embryo development.

Q. 18 Assertion: The wall layer of fruit is called perisperm.

Reason: The achenes in strawberry are seeds.

Q.19 Assertion: There is no segregation of characters in apomictic seeds.

Reason: Apomixis is the production of seed without fertilization.

Q.20 Assertion: *Orobanch* and *Striga* have multiple seeds in their fruits.

Reason: The seeds of certain plants remain viable for very long time period.

HUMAN REPRODUCTION (MCQS AND ASSERTION REASON)

1. In most mammals, the testes are located in the scrotal sac because it

- (a) provides more space to visceral organs
- (b) initiates spermatogenesis
- (c) initiates sex differentiation
- (d) helps in independent functioning of kidneys

2. The temperature of the scrotum, which is necessary for the functioning of testes, is always around ___°C below body temperature.

- (a) 2°C
- (b) 4°C
- (c) 6°C

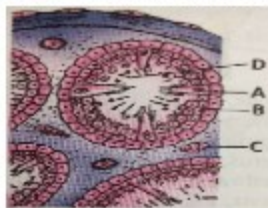
(d) 8°C

3. The given figure shows a diagrammatic sketch of a portion of the human male reproductive system. Identify the parts labelled A, B, C, and D and select the correct option.



- (a) A - Vas deferens, B - Seminal vesicle, C - Prostate, D - Bulbourethral gland
- (b) A - Vas deferens, B - Seminal vesicle, C - Bulbourethral gland, D - Prostate
- (c) A - Ureter, B - Seminal vesicle, C - Prostate, D - Bulbourethral gland
- (d) A - Ureter, B - Prostate, C - Seminal vesicle, D - Bulbourethral gland

4. The given diagram refers to a T.S. of testes showing sectional view of a few seminiferous tubules. Identify the parts labelled A-D and select the correct option.



- (a) A - Sertoli cell, B - Spermatozoa, C - Interstitial cell, D - Sperms
- (b) A - Sertoli cell, B - Secondary spermatocyte, C - Interstitial cell, D - Spermatogonia
- (c) A - Interstitial cell, B - Spermatogonia, C - Sertoli cells, D - Sperms
- (d) A - Sertoli cells, B - Spermatogonia, C - Interstitial cells, D - Sperms

5. Which of the following is correct about mammalian testes?

- (a) Graafian follicles, Sertoli cells, Leydig's cells
- (b) Graafian follicles, Seminiferous tubules, Leydig's cells
- (c) Sertoli cells, Leydig's cells, Seminiferous tubules
- (d) Graafian follicle, Sertoli cells, Seminiferous tubules

6. The nutritive cells found in seminiferous tubules are

- (a) Leydig's cells
- (b) Sertoli cells
- (c) atretic follicular cells
- (d) chromaffin cells

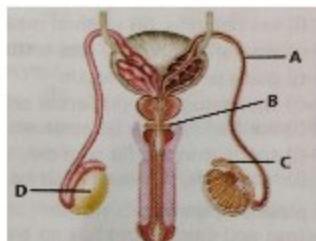
7. Sertoli cells are regulated by the pituitary hormone known as

- (a) LH
- (b) FSH
- (c) GH
- (d) prolactin

8. If for some reason, the vasa efferentia in the human reproductive system get blocked, the gametes will not be transported from

- (a) testes to epididymis
- (b) epididymis to vas deferens
- (c) ovary to uterus
- (d) uterus to vagina

9. Read the following statements about the given diagram carefully and state which of them are correct?

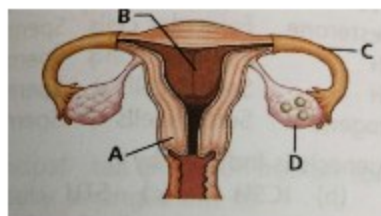


- (i) A carries urine and sperms.
- (ii) B secretes a fluid that helps in the lubrication of penis.
- (iii) D produces testosterone but not sperms.
- (iv) C stores sperms.

10. Fill in the blanks in the following paragraph by selecting suitable words from the bracket.
 (i) are the primary female sex organs that produce (ii) and (iii). Each primary sex organ is about (iv) cm long and is connected to the pelvic wall and uterus by (v).

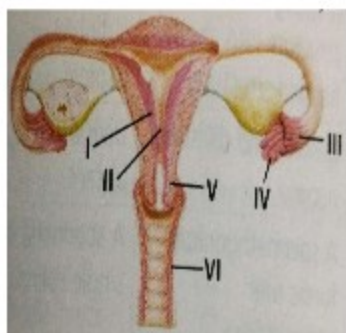
(i)	(ii)	(iii)	(iv)	(v)
(a) Testes	Sperms	Hormones	4-5 cm	Ligaments
(b) Ovaries	Oogonia	Follicle	2-4 cm	Muscle
(c) Ovaries	ovum	Hormones	4-9 cm	Ligaments
(d) Testes	sperms	Testosterone	3-5 cm	Muscle

11. The given figure is of the human female reproductive system. Identify the parts labelled as A, B, C, and D and select the correct option.



- (a) A - Oviduct, B - Uterus, C - Ovarian ligament, D - Ovary
- (b) A - Cervix, B - Uterus, C - Ovary, D - Tumour
- (c) A - Uterus, B - Uterine cavity, C - Oviducal funnel, D - Ovary
- (d) A - Cervix, B - Uterine cavity, C - Fallopian tube, D - Ovary

12. The given figure depicts a diagrammatic sectional view of the human female reproductive system. Which set of three parts out of I–VI have been correctly identified?

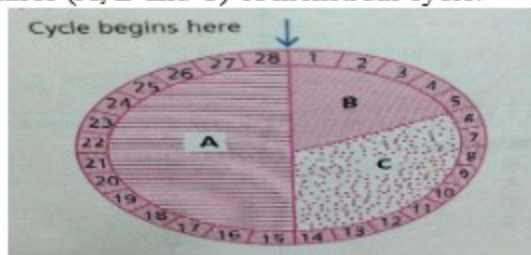


- (a) (I) Endometrium, (II) Infundibulum, (V) Fimbriae
- (b) (I) Primary follicles, (IV) Fimbriae, (VI) Cervix
- (c) (I) Oviducal funnel, (V) Uterus, (VI) Cervix
- (d) (III) Perimetrium, (IV) Myometrium, (V) Infundibulum

13. Delivery of developed fetus is scientifically called

- (a) parturition
- (b) oviposition
- (c) abortion
- (d) ovulation.

14. The given figure shows schematic representation of a menstrual cycle in human female. Identify the three phases (A, B and C) of menstrual cycle.



- | | | |
|-------------------------|-----------------|-----------------|
| A | B | C |
| (a) Proliferative phase | Menstrual phase | Secretory Phase |

- | | | |
|---------------------|---------------------|---------------------|
| (b) Menstrual Phase | Proliferative Phase | Secretory Phase |
| (c) Secretory Phase | Menstrual Phase | Proliferative phase |
| (d) Menstrual phase | Secretory Phase | Proliferative phase |

15. The female external genitalia includes

- (a) mons pubis
- (b) labia majora
- (c) labia minora
- (d) all of these

16. Which one is released from the ovary?

- (a) Primary oocyte
- (b) Secondary oocyte
- (c) Graafian follicle
- (d) Oogonium

17. How many sperms are formed from one primary spermatocyte?

- (a) 4
- (b) 8
- (c) 16
- (d) 32

18. In humans, at the end of the first meiotic division, the male germ cells differentiate into the

- (a) spermatids
- (b) spermatogonia
- (c) primary spermatocytes
- (d) secondary spermatocytes

19. $2n = 16$ is in a primary spermatocyte which is in the prophase of the first meiotic division. What shall be the total number of chromatids in each of the secondary spermatocyte?

- (a) 8
- (b) 32
- (c) 16
- (d) 24

20. Which of the following hormone levels will cause release of ovum from graafian follicle?

- (a) High concentration of estrogen
- (b) High concentration of Progesterone
- (c) Low concentration of LH
- (d) Low concentration of FSH

ASSERTION AND REASON

INSTRUCTIONS: In the following questions, a statement of assertion is followed by a statement of reason.

Mark the correct choice as:

- (a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- (b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.

- (c) If Assertion is true but Reason is false.
(d) If both Assertion and Reason are false.

21. Assertion: Sperms released from seminiferous tubules are transported by the accessory ducts.

Reasons: Secretion of epididymis, vas deferens seminal vesicle and prostate are essential for maturation and motility of sperms.

22. Assertion: The embryo with 8 to 16 blastomeres is called a morula

Reason: The blastomeres in the morula are arranged into an outer layer called trophoblast and an inner group of cells attached to trophoblast called the inner cell mass.

23. Assertion: The presence of X or Y chromosome in the sperm determine the sex of the embryo

Reason: All the eggs have one X chromosome.

24. Assertion: After puberty, the increased levels of GnRH acts at the posterior pituitary and stimulates the secretion of two gonadotropins LH and FSH.

Reason: LH acts on the Sertoli cells and FSH acts on the Leydig cells.

25. Assertion: During pregnancy, the levels of hormones like estrogens, progestogens, cortisol, prolactin, thyroxine. etc., are increased several folds in the maternal blood.

Reason: Increased production of these hormones is essential for supporting the foetal growth.

26. Assertion: Breast feeding during the initial period of infant growth is recommended by doctors for bringing up a healthy baby.

Reason: The milk produced during the initial few days of lactation is called colostrum which contains several antibodies absolutely essential to develop resistance for the new born babies.

27. Assertion : Testicular lobules are the compartments present in testes.

Reason : These lobules are involved in the process of fertilization.

28. Assertion: Spermatogenesis starts at the age of puberty.

Reason: There is a significant increase in level of gonadotropin releasing hormone at puberty.

29. Assertion: The middle piece is called as the power house of the sperm.

Reason: The numerous mitochondria coiling around axial filament produce energy for the movement of the tail.

30. Assertion: Clitoris of female is homologous to tip of penis.

Reason: Both have same origin and richly supplied with nerves and blood vessels.

CHAPTER - REPRODUCTIVE HEALTH

MCQ

Q1. The function of copper releasing IUD's is

- a) Implantation b) Suppress sperm motility
- c) Inhibit ovulation d) cervix hostility

Q2. The method of introduction of semen artificially into vagina or into uterus is called as

- a) IUI b) ZIFT c) GIFT d) ICSI

Q3. The transfer of zygote or early embryo upto 8 blastomeres in fallopian tube is called as

- a) GIFT b) IUT c) ZIFT d) AI

Q4. The transfer of embryo with more than 8 blastomeres in uterus is called as

- a) GIFT b) IUT c) ZIFT d) AI

Q5. Which of the following is a permanent method of contraception?

- a) IUD's b) Condom c) Vasectomy d) Injections

Q6. Which one of the following is not a sexually transmitted infection (STI)?

- A) Genital warts b) Hepatitis-B c) AIDS d) Amoebiasis

Q7. MTP is considered safe up to:

- a) 6 weeks of pregnancy b) 8 weeks of pregnancy
- c) 12 weeks of pregnancy d) 20 weeks of pregnancy

Q8) Which hormone is present in oral contraceptive pills?

- a) Progesterone b) Estrogen and Progesterone
- c) Both a and b d) None

Q9. **Saheli** is a:

- a) Copper releasing IUD b) Barrier contraceptive
- c) Oral contraceptive pill for males
- d) Non-steroidal oral contraceptive for females

Q10. **Which one is not a natural method of contraception?**

- a) Periodic abstinence b) Coitus interruptus
- c) Lactational amenorrhea d) Intrauterine device (IUD)

Q11. Emergency contraceptives are used within

- a) 72 hrs of coitus b) 72 hrs of ovulation
- c) 72 hrs of menstruation d) 72 hrs of implantation

Q12. Example of non medicated IUDs is

- a) Progestrat b) LNG20 c) Multiload 375 d) Lippes loop

Q13. Intra Fallopian Transfer (GIFT) is recommended for those females

- a) who cannot produce an ovum
- b) who cannot retain the foetus inside uterus
- c) who cannot provide suitable environment for fertilisation
- d) all of these

Q14. Intensely lactating mothers do not generally conceive due to the

- a) suppression of gonadotropins
- b) hypersecretion of gonadotropins .
- c) suppression of gametic transport
- d) suppression of fertilisation.

Q15. **Which part of the female reproductive system remains blocked after tubectomy?**

- a) Fallopian tube
- b) Cervix
- c) Uterine cavity
- d) None

Directions: In the following questions, a statement of assertion is followed by a statement of reason.

Mark the correct choice as:

- (a) If both Assertion and Reason are true and Reason is the correct explanation of Assertion.
- (b) If both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
- (c) If Assertion is true but Reason is false.
- (d) If both Assertion and Reason are false.

Q16. **Assertion::** Copper containing IUDs are very effective for emergency contraception.

Reason: Copper ions are toxic to the sperms.

Q17. **Assertion::** Hepatitis B is also considered a sexually transmitted disease.

Reason: It can be spread through sexual contact

Q18. Assertion:: Coitus interruptus has a high failure rate for a method of contraception.

Reason: The pre-ejaculate fluid secreted by bulbourethral glands is known to have sperms.

Q19. Assertion: Introduction of sex education in schools should be encouraged.

Reason: This will encourage children to believe in myths about sex related aspects.

Q20. Assertion: Natality increases both population density and population size.

Reason: Natality increases the number of individuals in an area by births.

Two marks questions

Chapter 1 Sexual reproduction in flowering plants

1. What is a microsporangium?
2. Name all layers of a microsporangium. What role of tapetum?
3. Define double fertilization.
4. What is triple fusion?
5. Define geitonogamy. Give examples.
6. Draw a well labelled diagram of an ovule.
7. Explain the process of pollination in *Vallisneria*.
8. What are cleistogamous flowers? Is cross pollination possible in them?
9. Define apomixis, give examples.
10. Define polyembryony, give examples.

HUMAN REPRODUCTION

- 11 Name the glands which contribute their secretions in the seminal fluid.
- 12 Arrange the following in the correct developmental sequence:
Oogonia, ovum, Graafian follicle, primary oocyte, secondary oocyte
- 13 Define Colostrum. Which antibody is present in it?
- 14 Which hormone is called easy birth hormone and why?
- 15 Name any two lytic enzymes present in the acrosome of sperm.

16. Name the temporary structure that provides nutrition to the developing embryo before the formation of placenta.
17. What is the function of polar body released during the maturation phase of oogenesis.
18. At which stage of life, the transformation of oogonia into primary oocyte occurs in human female? Which type of cell division occurs there?
- 19.a. What is the role of oxytocin hormone in parturition?
b. Name the hormones released by human chorionic placenta.
20. a. Differentiate between spermiation and spermiogenesis.
21. Which hormone is responsible for the release of ovum during ovulation. Also define ovulation.
22. What is the function of urethral meatus?
23. *Why are male testes located outside the abdominal cavity?*
24. *What is acrosome?*
25. *State the function of leydig cells.*
26. *What is corpus luteum?*
27. *Where do we find fimbriae?*
28. *Explain i) HCG ii) FSH*
29. *What is semen?*
30. *What do you mean by foetal ejection reflex?*
31. *Define parturition.*
32. *What is corona radiata?*
33. *Where does fertilization normally takes place in a human female.*
34. *List the changes that the primary oocyte undergoes in the tertiary follicular stage in the human ovary.*
35. *Name the substance present in the sperm acrosome & which help in sperms entry into egg.*
36. *Despite the presence of So many sperms in the vicinity of an egg cell, only one sperm enters the ovum. Why?*
37. *How many polar bodies are given out in production of one egg during oogenesis?*
38. *Define spermiogenesis and spermiation.*
39. *Where are leydig cells located? What do they secrete?*
40. *Why testes of human males are considered extra abdominal? What is the significance of this condition?*

41. Name the hormones produced only during pregnancy in human female. Mention their source organ.

42 What is colostrum? What is its significance to new born baby.

3 Marks Questions Sexual reproduction in flowering plants

1. Describe the structure and function of the embryo sac in flowering plants.
2. What is double fertilization? Explain its significance in angiosperms.
3. Differentiate between self-pollination and cross-pollination.
4. Describe the structure and function of the microsporangium.
5. What is double fertilization? Why is it called so?.
6. Describe the role of tapetum in the development of pollen grains.
7. What are the post-fertilization changes in a flower?
8. How does the embryo sac develop in angiosperms?
9. . Mention any three agents of pollination and describe one adaptation in plants for each.
10. What is apomixis? How is it different from parthenocarpy?

Chapter-2

Human Reproduction

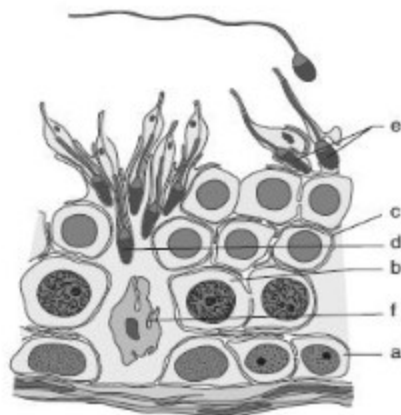
Q. 1. (i) Draw a sectional view of seminiferous tubule of a human. Label the following cells in the seminiferous tubule:

- (a)** Cells that divide by mitosis to increase their number.
 - (b)** Cells that undergo Meiosis I.
 - (c)** Cells that undergo Meiosis II.
 - (d)** Cells that help in the process of spermiogenesis.
- (ii)** Mention the role of Leydig cells.

Q. 2. Draw a diagram of the microscopic structure of human sperm. Label the following parts in it and write their functions.

- (i)** Acrosome **(ii)** Nucleus **(iii)** Middle piece

Q. 3. Study the figure given below:



- (i) What is being depicted in the diagram?
- (ii) Name 'a' and 'b' cells. What is the difference between them with reference to the number of chromosomes?
- (iii) Pick out and name the motile cells.
- (iv) What is 'f' cell? Mention its function.
- (v) Name the structure of which the given diagram is a part.

Q. 4. Explain the hormonal control of spermatogenesis in humans.

Q. 5. (i) Draw a diagram of the structure of a human ovum surrounded by corona radiata. Label the following parts:

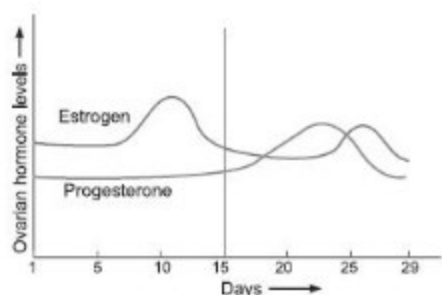
(a) Ovum (b) Plasma membrane (c) Zona pellucida

Q. 6. Name the stage of human embryo at which it gets implanted. Explain the process of implantation.

Q. 7. Name the source of gonadotropins in human females. Explain the changes brought about in the ovary by these hormones during menstrual cycle.

Q. 8. (i) How is placenta formed in the human female?

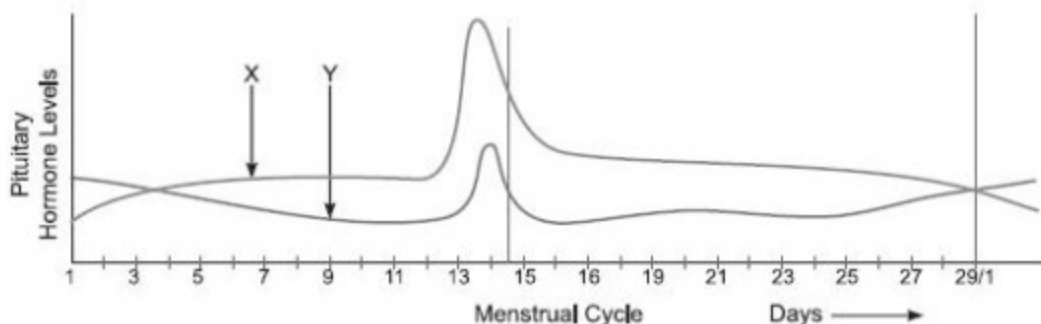
(ii) Name any two hormones which are secreted by it and are also present in a non-pregnant woman.



Q. 9. Read the graph given showing the levels of ovarian hormones during menstruation and correlate the uterine events that take place according to the hormonal levels on:

- (i) 6–15 days
- (ii) 16–25 days
- (iii) 26–28 days (if the ovum is not fertilised)

Q. 10. Study the graph given below and answer the questions that follow:



(a) Name the hormones 'X' and 'Y'.

(b) Explain the ovarian events (i), (ii) and (iii) under the influence of hormones 'X' and 'Y'.

Chapter-3 Reproductive Health

Q. 1. What are the consequences of population explosion?

Q. 2. If implementation of better techniques and new strategies are required to provide more efficient care and assistance to people, then why is there a statutory ban on amniocentesis? Write the use of this technique and give reason to justify the ban.

Q. 3. (a) List any four characteristics of an ideal contraceptive.

(b) Name two intrauterine contraceptive devices that affect the motility of sperms.

Q. 4. A woman has certain queries as listed below, before starting with contraceptive pills. Answer them.

(a) What do contraceptive pills contain and how do they act as contraceptives?

(b) What schedule should be followed for taking these pills?

Q. 5. (a) Name and explain the mode of action of any two types of IUDs.

(b) List the advantages of using 'Saheli' as a contraceptive.

Q. 6. Name two hormones that are constituents of contraceptive pills. Why do they have high and effective contraceptive value? Name a commonly prescribed non-steroidal oral pill.

Q. 7. Within what age group sexually transmitted diseases (STDs) are reported to be very high. Mention three practices to avoid them.

Q. 8. Explain the zygote intra-fallopian transfer technique (ZIFT). How is intra-uterine transfer technique (IUT) different from it?

Q. 9. Expand the following and explain any one of them.

(a) IVF

(b) ZIFT

(c) IUI

(d) MTP

Q. 10. Given below is the picture of a contraceptive device. Observe it and answer the questions that follow.



(i) What is the device used for?

(ii) Why do intensely lactating mothers not generally conceive?

(iii) Our government has intentionally imposed strict conditions for MTP in our country. Justify giving a reason.

Q11 Describe any three assisted Reproductive techniques practised to treat infertility.

Q12 What are the advantages and disadvantages of hormonal contraceptives?

Q13 Describe any three methods by which fertilization of an ovum by sperm can be prevented.

Q14 How does a nation keep track of its population growth? Write two differences between the natality rate and the mortality rate.

- Q15 What are ART techniques? Explain any two such techniques ?

Chapter 4

Principles of Inheritance and Variation

3 Marks questions

Q.1 What is the possibility of a human female suffering from haemophilia rare ? Explain .

Q.2 Explain the genetic basis of blood groups in human population.

Q.3 A cross was carried out between two pea plant showing the contrasting traits of height of the plants . The result of the cross showed 50% parental characters.

- Work out the cross with the help of a punnett square.
- Name the type of the cross carried out.

Q.4 Explain mechanism of sex determination in birds.

Q .5 which chromosome carry the mutant genes causing thalassemia in human ? What are the problems caused by these mutant genes?

Q.6 During a medical investigation an infant was found to possess an extra chromosome 21. Describe the symptoms of child is likely to develop later in life.

Q.7 Mendal published his work on inheritance of character in 1865, but it remain unrecognized till 1900. Give three reasons for the delay in accepting his work.

Q.8 Compare in any three ways the “chromosomal theory of inheritance” as proposed by sutton and boveri with that of experimental result on pea plant presented by Mendel.

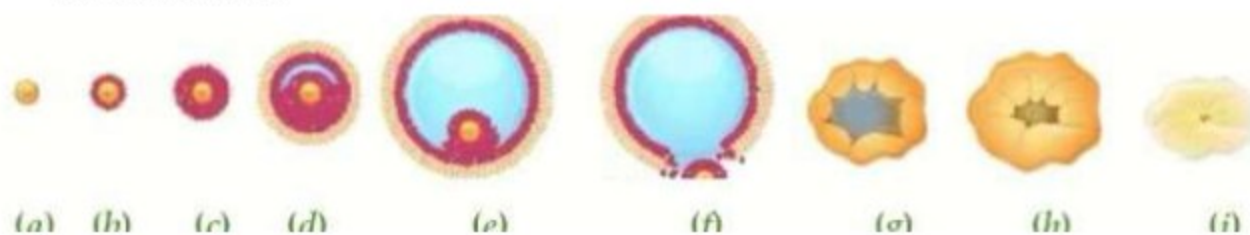
Q.9 Differentiate between male heterogamity and female heterogamity with the help of one example of each.

Q.10 Name a disorder in which a human suffer from as a result of monosomy of sex chromosome. Give the karyotype and write the symptoms.

Four marks questions

Human reproduction

Q1. The following is the illustration of the sequence of ovarian events (a – i) in a human female.

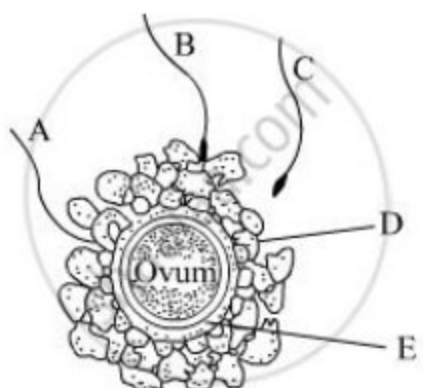


- Identify the figure that illustrates ovulation and mention the stages of oogenesis it represents.
- Name the hormone that triggers the above mentioned event.
- What forms after ovulation from the ruptured Graffian follicle?
- What is the role of progesterone in the human female?

Q2. During a biology class, students observe a prepared slide showing the penetration of a sperm into an ovum.

- I) Identify the E. Mention it's role during fertilization. 2 marks
- II) Which one of the sperms would reach the ovum earlier? 1 mark
- III) What is the role of acrosome in fertilization? 1 mark

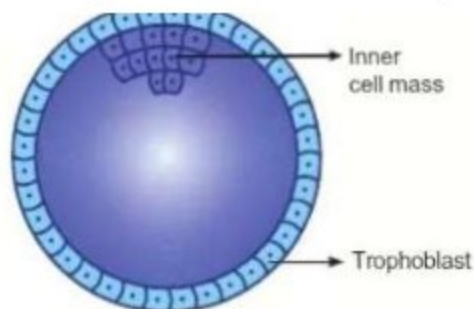
Q3. A 29 year old woman presents with irregular menstrual cycles and elevated levels of LH and FSH. Ultrasound imaging reveals multiple small cysts in her ovaries.



- I) What condition is most likely indicated by these symptoms?
- II) How do elevated LH and FSH levels contribute to the development of multiple cysts? 2 marks
- III) What are the potential long term health risks associated with PCOS? 1 mark

Q4. Study the figure given below and answer the following questions –

- I) Name the stage of the human embryo the figure represents.



- II) Mention the fate of the inner cell mass after implantation in the uterus.
- III) Where are the stem cells located in this embryo.
- IV) Which hormone is secreted by the trophoblast?

Q5. Dr. Sharma was explaining to her students the sequence of events during spermatogenesis. She said, it involves mitosis, meiosis, and transformation

phases. She showed them a diagram of a seminiferous tubule highlighting spermatogonia, primary and secondary spermatocytes, spermatids, and spermatozoa.

- I) How many spermatozoa are formed from one primary spermatocyte?
- II) What is the process of transformation of spermatids into spermatozoa called?
- III) After spermiogenesis, where do the sperm go for maturation?
- IV) Which two hormones from the anterior pituitary regulate spermatogenesis?

SEXUAL REPRODUCTION IN FLOWERING PLANTS

(4 Marks Question)

Q 1 The pollen grains may be shed at the two-celled stage (as in 60 percent of angiosperms) or in the three-celled stage (as in the remaining species). When once shed, the pollen grains must land on the correct type of stigma before they lose viability, to effect fertilization.

(a) The period for which the pollen grains remain viable is highly variable depending on the species. Substantiate the statement with two examples.

1

(b) Mention two environmental factors, which affect the pollen viability.

1

(c) Mention cells found in pollen grains when it is shed at three-celled stage.

2

Q2 The pollen grains or micro-spores are the male reproductive bodies of a flower and are contained in the pollen sac or microsporangia. Each pollen grain consists of a single microscopic cell, possessing two coats: the exine and the intine. The exine of a pollen grain is made of chemically stable material. Because of this, pollen grains are often very well preserved for thousands of years in soil and sediments.

Which is the most resistant biological material present in the exine of pollen grain?

1

What is the function of germ pore. Mention the number of germ pore in dicots and monocots?

1

What is the key advantage to the plant for having such strong pollen grain walls?

2

Q3 Following compatible pollination, the pollen grain germinates on the stigma to produce a pollen tube which grows through the tissues of stigma and style and reaches to ovary. If the pollen grain was shed at 2-celled stage, the generative cell divides and forms the two male gametes during the growth of pollen tube. In plants which shed pollen grains in 3-celled condition, pollen tube carries the two male gametes from the beginning. The pollen tube enters into ovule and penetrates into the embryo sac. Within embryo sac, the pollen tube enters into one of the synergids through the filiform apparatus. Now the pollen tube releases two male gametes into the space developed by degeneration of penetrated synergid. One of the male gamete moves towards the egg cell and fuses with its nucleus thus completing syngamy resulting into the formation of diploid zygote. The other male gamete moves towards the two polar nuclei located in the central cell and fuses with them to produce a triploid primary endosperm nucleus (PEN). As this involves the fusion of three haploid nuclei, it is termed as triple fusion. Since two types of fusion syngamy and triple fusion, takes place in an embryo sac, this phenomenon is termed as double fertilisation, an event unique to flowering plants. After fusion, the central cell becomes primary endosperm cell (PEC) and develops into endosperm while the zygote develops into an embryo.

(a) Why angiosperms plants produce endosperm while the other plants do not?

1

(b) What is the entry point of pollen tube into embryo sac?

1

(c) What does double fertilisation refer to?

2

Q4 Artificial hybridization is one of the major approaches of crop improvement programme. In such crossing experiments it is important to make sure that only the desired pollen grains are used for pollination and the stigma is protected from contamination (from unwanted pollen). This is achieved by emasculation and bagging techniques.

What is emasculation? Why is emasculation necessary in some cases?

1

How does artificial hybridization differ from natural hybridization?

1

What are the essential steps involved in artificial hybridization?

2

Q5 Cross pollination is the transfer of pollen grains from the anther of one flower to the stigma of a genetically different flower. It is performed with the help of an external agency which may be abiotic (e.g., wind, water) or biotic (e.g., insects, birds, bats, snails).

What is entomophily? 1

Where is pollen kitt generally found? 1

Why is cross pollination important for plant reproduction and genetic diversity? 2

5 Marks questions

1. Describe the structure of an ovule with the help of a neat, labelled diagram. Highlight any two differences between micropyle and chalaza.

2. Differentiate between self-pollination and cross-pollination. List any three devices/mechanisms that encourage cross-pollination in flowering plants.

3. **A student compares male and female gamete formation in a project.**

Based on your knowledge, answer:

a. What are the key steps in spermatogenesis and oogenesis?

b. How are they similar and different?

(Provide at least three points of difference.)

4. **Explain the process of implantation and the formation of placenta.**

a. Where does implantation occur?

b. How does the blastocyst attach to the uterine wall?

c. How does placenta develop from the trophoblast cells?

5. A teenage girl is experiencing irregular menstrual cycles due to stress and poor nutrition.

Analyze and explain:

a. How do hormones control the menstrual cycle?

b. What is the role of GnRH, FSH, LH, estrogen, and progesterone?

c. How can stress and diet affect these hormones?

d. Suggest strategies to regulate menstrual health.

6. A couple undergoes IVF due to blocked fallopian tubes. Fertilization is done in the lab and the embryo is transferred to the uterus.

Apply your knowledge to answer:

a. Why can natural fertilization not occur in this case?

b. Describe the normal site and process of fertilization.

c. What are the steps of IVF?

d. How is embryo implantation ensured in such procedures?

5 marks questions

Q.1 (a) Explain the events taking place at the time of fertilization of an ovum in a human female.

(b) Trace the development of zygote upto its implantation in the uterus.

(c) Name and draw a labelled sectional view of the embryonic stage that gets implanted .
1+2+2

Q.2 (a) When and where does spermatogenesis occur in a human male?

(b) Draw a diagram of a mature human male gamete. Label the following parts :
acrosome, nucleus, middle piece, tail.

(c) Mention the function of acrosome and middle piece. 1+2+2

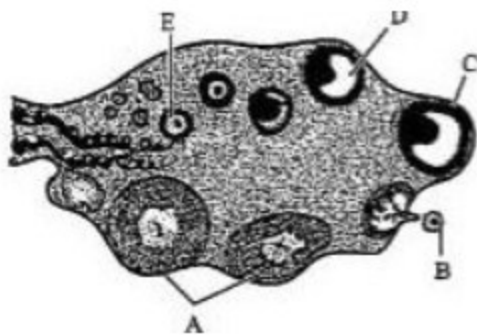
Q.3 (a) Highlight one aspect by which meiosis during oogenesis differs from regular meiosis.

(b) Name two hormones that are common to spermatogenesis and oogenesis.

(c) State the function of hormone identified in (b) in both human male and female.

(d) For a human male, out of the two sex chromosomes, we can tell which sex chromosome is from which parent. Can we assume the same for a human female? Give a reason for your answer.

(e) What is the probability of fertilisation between an ovum and a sperm containing the Y chromosome? Give a reason. 5



5 MARKS QUESTIONS

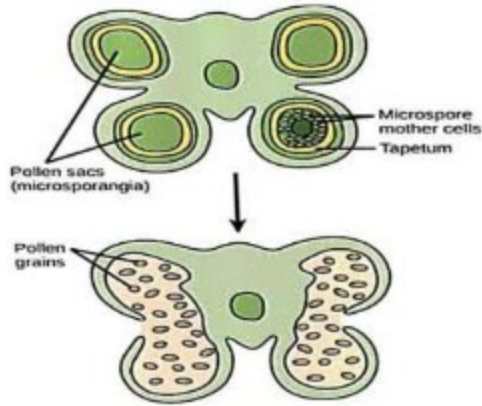
Q.4

(a) Identify the parts A,B,C,D and E and write function of part A.

b) Name the cavity present in part D.

(c) Which hormone is responsible for formation of part C.

Q1: Observe the image and answer the following questions:



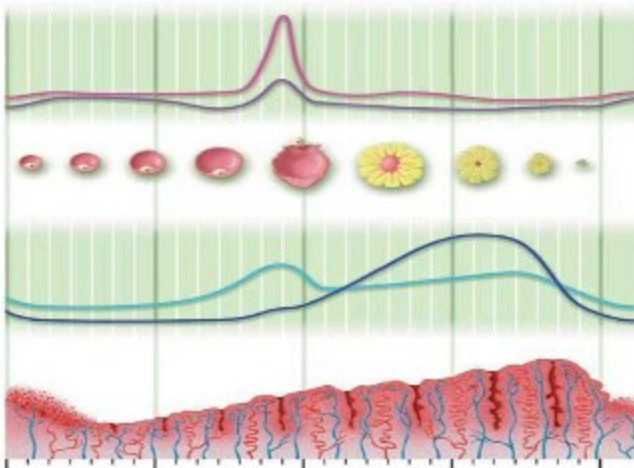
A) Name and explain the processes taking place in the above shown image diagrammatically. (3).

B) Draw a labelled diagram of a 3 celled pollen and a 2 celled pollen. (2)

Q2: A) What advantage does a flower performing Geitonogamy is having over another undergoing Xenogamy? (2)

B) Can you suggest some devices that are being evolved in the plants to avoid Geitonogamy and ensure xenogamy. (3)

Q3: Observe the diagram and answer the following questions:



A) Name the hormones A and B as well as their source in the ovary.

B) The A and B Secretions are in control of a master gland. Justify the statement.

C) What is the impact of A and B on the uterine walls (in reference to the menstrual cycle phases)?

OR

D) What will be the impact on B if fertilization occurs?

Q4: Given below are the situations, analyse and suggest the suitable contraceptive device along with their mode of action:

SITUATIONS	NAME OF CONTRACEPTIVE	MODE OF ACTION
1. Spacing between the children.		
2. Emergency Contraceptive		
3. Terminal method to prevent any pregnancy in females.		
4. Preventing physical meeting of sperms and ova. 5. Terminal method to prevent any pregnancy in females.		

Q5: Given below are the situations, analyse and suggest the suitable ART Method to be used along with the reason:

SITUATIONS	Name of ART to be used	REASON
1. Low sperm count in male.		
2. No production of Ovum in ovary of female.		
3. Blockage in fallopian tube of female partner.		
4. Inability of male partner to inseminate.		

5. A test tube baby of 32 blastomeres is to be transferred in the female for further development.		
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KENDRIYA VIDYALAYA MIRAN SAHIB

Summer Holiday Home work (2026-27)

SUBJECT : PHYSICS

CLASS : XII

- Revise and practice chapter 1 in revision note day wise. Revision note to be submitted with proper index on reopening day.
- Complete the written work of the experiment.
- Complete activity file with 2 activities neatly.
- Complete investigatory project (Choose one from the list below)
 - a. To study various factors on which the internal resistance/EMF of a cell depends.
 - b. To find the refractive indices of (a) water (b) oil (transparent) using a plane mirror, an equiconvex lens (made from a glass of known refractive index) and an adjustable object needle.
 - c. To investigate the relation between the ratio of (i) output and input voltage and (ii) number of turns in the secondary coil and primary coil of a self-designed transformer.
 - d. To investigate the dependence of the angle of deviation on the angle of incidence using a hollow prism filled one by one, with different transparent fluids.
 - e. To estimate the charge induced on each one of the two identical Styrofoam (or pith) balls suspended in a vertical plane by making use of Coulomb's law.
 - f. To study the factor on which the self-inductance of a coil depends by observing the effect of this coil, when put in series with a resistor/(bulb) in a circuit fed up by an A.C. source of adjustable frequency.
 - g. To study the earth's magnetic field using a compass needle -bar magnet by plotting magnetic field lines and tangent galvanometer.
- Frame 20 MCQs , 5 Assertion and Reasoning ,2 case based questions, 5 one mark questions , 5 two marks questions and 10 Numericals from both the chapters .All questions to be solved with solutions of your own.
- Solve Competency based questions from chapter 1 and 2
 - (i) <https://drive.google.com/file/d/1jpfA5ihO6pX7z29BaZaQufVlCgJxZHbV/view>
 - (ii) https://drive.google.com/file/d/1GPWIMjOIv_BOmBIX-cm5JGuYXbt44wQ9/view

PM SHRI Kendriya Vidyalaya Miran Sahib Jammu

Summer Holiday Homework Class 12th -Chemistry (Session 2026-27)

1. INVESTIGATORY PROJECT(any one)

Scientific investigations involving laboratory testing and collecting information from other sources.

- a) Study of the presence of oxalate ions in guava fruit at different stages of ripening.
- b) Study of quantity of casein present in different samples of milk.
- c) Preparation of soybean milk and its comparison with the natural milk with respect to curd formation, effect of temperature, etc.
- d) Study of the effect of Potassium Bisulphate as food preservative under various conditions (temperature, concentration, time, etc.)
- e) Study of digestion of starch by salivary amylase and effect of pH and temperature on it.
- f) Comparative study of the rate of fermentation of following materials: wheat flour, gram flour, potato juice, carrot juice, etc.
- g) Extraction of essential oils present in Saunf (aniseed), Ajwain (carom), Illaichi (cardamom).
- h) Study of common food adulterants in fat, oil, butter, sugar, turmeric power, chili powder and pepper.

2. Solve previous 5 year sample papers (chapters-solution and electrochemistry)

3. Solve 20 numerical problems of chapter solution including

- colligative properties
- concentration terms

4. Solve 50 MCQs (25 each) from chapter solutions and electrochemistry.

5. Complete all the pending work of theory practical

Class XII Mathematics (Holiday Homework)

***Relations and Functions**

- Define relation and function with examples

- Write types of relations (reflexive, symmetric, transitive)
- Solve 5 basic questions
- Domain, codomain, range – solve 8 questions
- Graph simple functions
- Types of functions (one-one, onto, bijective)
- Solve 10 MCQs

***Inverse Trigonometric Functions**

- Learn definitions and principal values
- Solve 8 basic problems
- Graphs of inverse trigonometric functions
- Practice 6 graph-based questions

***Matrices**

- Definition, types of matrices
- Write examples of 10 matrices
- Matrix addition & multiplication
- Solve 8 problems
- Transpose of a matrix
- Solve 6 problems
- Symmetric & skew-symmetric matrices
- Solve 8 questions
- Practice worksheet (15 mixed problems)

***Determinants**

- Definition and expansion of determinants
- Solve 6 problems
- Adjoint and inverse of matrix
- Solve 8 problems

***Project 1: Real-Life Application of Matrices**

- Show how matrices are used in:

- Computer graphics
- Banking systems
- Encryption
- Include diagrams and examples.

***Project 2: Functions in Daily Life**

- Collect 5 real-life examples of functions
- Draw graphs (like temperature vs time, speed vs distance)
- Explain domain and range.

English

1. Revise all the chapters and poems .
2. Practice all the formats and sample questions of Letter to the Editor, Article writing and Notice writing.
3. Practice poetic devices and glossary of all the chapters.
4. Work on competency based questions.
5. Frame Mind map for all the chapters done in the class.
6. Prepare ASL project as instructed.

HINDI

पाठित पाठ्यक्रम का पुनरावलोकन करें।
 लेख लिखें → गर्मियों की छुट्टियों का आनंद,
 बचपन की कहानी, प्रकृति अनमोल भेंट।
 वितान पुस्तक के पाठों का पठन करें

COMPUTER SCIENCE

Chapter 1: Python Revision

Answer the following:

1. What is Python? Write two features of Python.
2. Differentiate between compiler and interpreter.
3. Explain the following data types with examples:
 - Integer
 - Float
 - String
 - Boolean
4. What is the difference between list and tuple?
5. Explain the use of:
 - break
 - continue
 - pass
6. Write the syntax of:
 - if statement
 - for loop
 - while loop
7. What is indexing and slicing in strings?
8. Differentiate between mutable and immutable data types.
9. Explain operators in Python with examples:
 - Arithmetic
 - Relational
 - Logical
10. What is a dictionary? Write any four dictionary functions.

Chapter 2: Functions in Python

Answer the following:

1. What is a function?
2. Why are functions used in programming?
3. Differentiate between built-in and user-defined functions.
4. Explain:
 - o Function definition
 - o Function call
5. What are arguments and parameters?
6. Explain the types of arguments:
 - o Positional arguments
 - o Default arguments
7. What is the difference between local and global variables?
8. Explain the use of the `return` statement.
9. What is recursion?
10. Write the advantages of modular programming.

Class 12 – Informatics Practices (CBSE)

Section A – Theory Questions

Chapter 1: Data Handling using Pandas

Answer the following questions:

1. What is Pandas?
2. Define:
 - Series
 - DataFrame
3. Differentiate between Series and DataFrame.
4. Write the steps to import Pandas library.
5. Explain any four functions of DataFrame.
6. What is CSV file?
7. Explain:
 - head()
 - tail()
 - info()
 - describe()
8. What is indexing and slicing in Pandas?
9. How can missing values be handled in DataFrame?
10. Write the difference between line graph and bar graph.

Chapter 2: Database Query using SQL

Answer the following questions:

1. What is a database?
2. Define:
 - Relation
 - Tuple
 - Attribute

3. What is SQL?
4. Differentiate between DDL and DML commands.
5. Explain:
 - o CREATE
 - o INSERT
 - o UPDATE
 - o DELETE
6. What is a Primary Key?
7. What is the use of WHERE clause?
8. Explain aggregate functions with examples.
9. Differentiate between DELETE and DROP.
10. What is the use of ORDER BY clause?

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HOLIDAYS HOME WORK

Economics Worksheet

Class 12 B

◆ Section A: MCQs (1 mark each)

(Choose the correct option)

1. GDP at market price includes:

- a) Only final goods
- b) Only intermediate goods
- c) Both final and intermediate goods
- d) None of these

2. National income is also known as:

- a) NDP at MP
- b) NNP at FC
- c) GDP at FC
- d) GNP at MP

3. Which of the following is included in GDP?

- a) Second-hand goods
- b) Sale of old furniture
- c) Production of new cars
- d) Transfer payments

4. Net factor income from abroad (NFIA) is:

- a) Factor income earned by foreigners in domestic country
- b) Factor income earned by residents abroad minus income earned by foreigners domestically
- c) Total exports minus imports

d) None of these

5. Which method is also called the value-added method?

- a) Income method
- b) Expenditure method

- c) Production method
- d) Investment method

6. Subsidies are:

- a) Added to market price
- b) Deducted from market price
- c) Added to factor cost
- d) Not included

7. Which of the following is a transfer payment?

- a) Salary
- b) Pension
- c) Rent
- d) Interest

8. Gross Domestic Product (GDP) becomes Net Domestic Product (NDP) after: a) Adding depreciation

- b) Subtracting depreciation
- c) Adding NFIA
- d) Subtracting taxes

9. The circular flow of income shows:

- a) Flow of goods only
- b) Flow of money only
- c) Continuous flow of goods and money
- d) Government expenditure

10. Personal income includes:

- a) Undistributed profits
- b) Corporate taxes
- c) Transfer payments
- d) Depreciation

◆ Section B: Short Answer Questions (3 marks each)

1. Define National Income.

2. Distinguish between GDP and GNP.
3. What is depreciation? Why is it deducted?
4. Explain Net Factor Income from Abroad (NFIA).
5. Differentiate between factor cost and market price.

◆ Section C: Case Study Questions (4 marks each)

 Case Study 1: Measuring National Income

In an economy, the following data is given (in ₹ crores):

Private Final Consumption Expenditure = 500

Government Final Consumption Expenditure = 200

Gross Domestic Capital Formation = 300 Net Exports = (-50) Questions:

Calculate GDP at Market Price.

If depreciation = 50, find NDP at MP.

If Net Indirect Taxes = 20, calculate NDP at Factor Cost.

What does negative net exports indicate?

 Case Study 2: Production Process

A farmer produces wheat worth ₹1000. A miller buys it and makes flour worth ₹1500. A baker uses flour to make bread worth ₹2000.

Questions:

Calculate value added at each stage.

Find GDP using the value-added method.

Why should intermediate goods not be counted separately?

Identify the final good in this case.

 Case Study 3: Income Flow

In a two-sector economy, households provide factors of production to firms and receive wages, rent, interest, and profit.

Questions:

Explain the circular flow of income. What are leakages and injections?

Give examples of each.

What happens if leakages exceed injections?

♦ Section D: Long Answer Questions (6 marks each)

1. Explain the three methods of measuring National Income.
2. Describe precautions while calculating national income using the income method.
3. Explain the circular flow of income in a two-sector economy with a diagram.
4. Distinguish between real and nominal GDP.

PM SHRI KENDRIYA VIDYALAYA MIRAN SAHIB

Class 12 Accountancy Holiday Homework Plan

Theory Assignments

Students are expected to review and practice the following chapters from the "Accounting for Partnership Firms"

- e) **Chapter 1:** Fundamentals of Partnership
- f) **Chapter 2 :** Goodwill
- e) Complete Assignments of practice questions of chapters include multiple-choice questions, short answers, and numerical problems focusing on:
 - f) Interest on capital and drawings
 - g) Profit-sharing ratios
 - h) Guaranteed profits
 - i) Capital accounts and adjustments
 - j) Calculation of Goodwill

 Art-Integrated Activities

To enhance conceptual understanding, students are encouraged to create mind maps on the following topics:

Interest on Drawings

Interest on Capital

- e) Workmen Compensation Reserve
- f) Investment Fluctuation Reserve

Additionally, prepare a PowerPoint presentation on the methods of goodwill valuation.

Worksheets

Students should complete:

- c) Worksheets focusing on key concepts and numerical problems.

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Class 12 Business Studies Holiday Homework Plan

1. Project Work (as per CBSE Guidelines)

g) **Choose any ONE topic** from:

1. Marketing Management
2. Principles of Management (based on a survey)
3. Business Environment (real-world examples)

h) **Format:**

1. Cover Page
2. Certificate
3. Acknowledgment
4. Introduction
5. Objectives
6. Methodology
7. Analysis and Interpretation
8. Conclusion
9. Bibliography

i) **Deadline:** Finish rough draft in 2 weeks, final submission after teacher review.

2. Chapter-wise Assignment

5. **Complete Worksheets/Assignments** for:

- a Chapter 1: Nature and Significance of Management
- b Chapter 2: Principles of Management

- c Chapter 3: Business Environment
 - d Chapter 4: Planning
 - 6. **Task:**
 - a Write key definitions (in your own words).
 - b Prepare flowcharts for important concepts.
 - c Minimum 30 MCQs from chapter 4 Planning (self-prepared).
-

3. Case Studies Practice

- e) **Practice 15 Case Studies:**
 - a 15 Case Based Questions from Chapter 4 Planning (self-prepared)
 - f) **Source:** NCERT textbook + any reference books.
-

4. Creative Work

- d) **Prepare a Mind Map/Flowchart:**
 - a Use colored pens for better visual memory.
-

5. Revision Plan/ Worksheets

- g) **Weekly Goals:**
 - a Week 1: Revise Chapter 1
 - b Week 2: Revise Chapter 2
 - c Week 3: Revise Chapter 3
 - d Week 4: Revise Chapter 4
 - h) **Task:** Make short notes for each chapter (1–2 pages max).
 - i) Note down key words for each and every topic.
 - j) Solve worksheets focusing on key concepts.
-

ENGLISH

1. Revise all the chapters and poems .

2. Practice all the formats and sample questions of Letter to the Editor, Article writing and Notice writing.
3. Practice poetic devices and glossary of all the chapters.
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