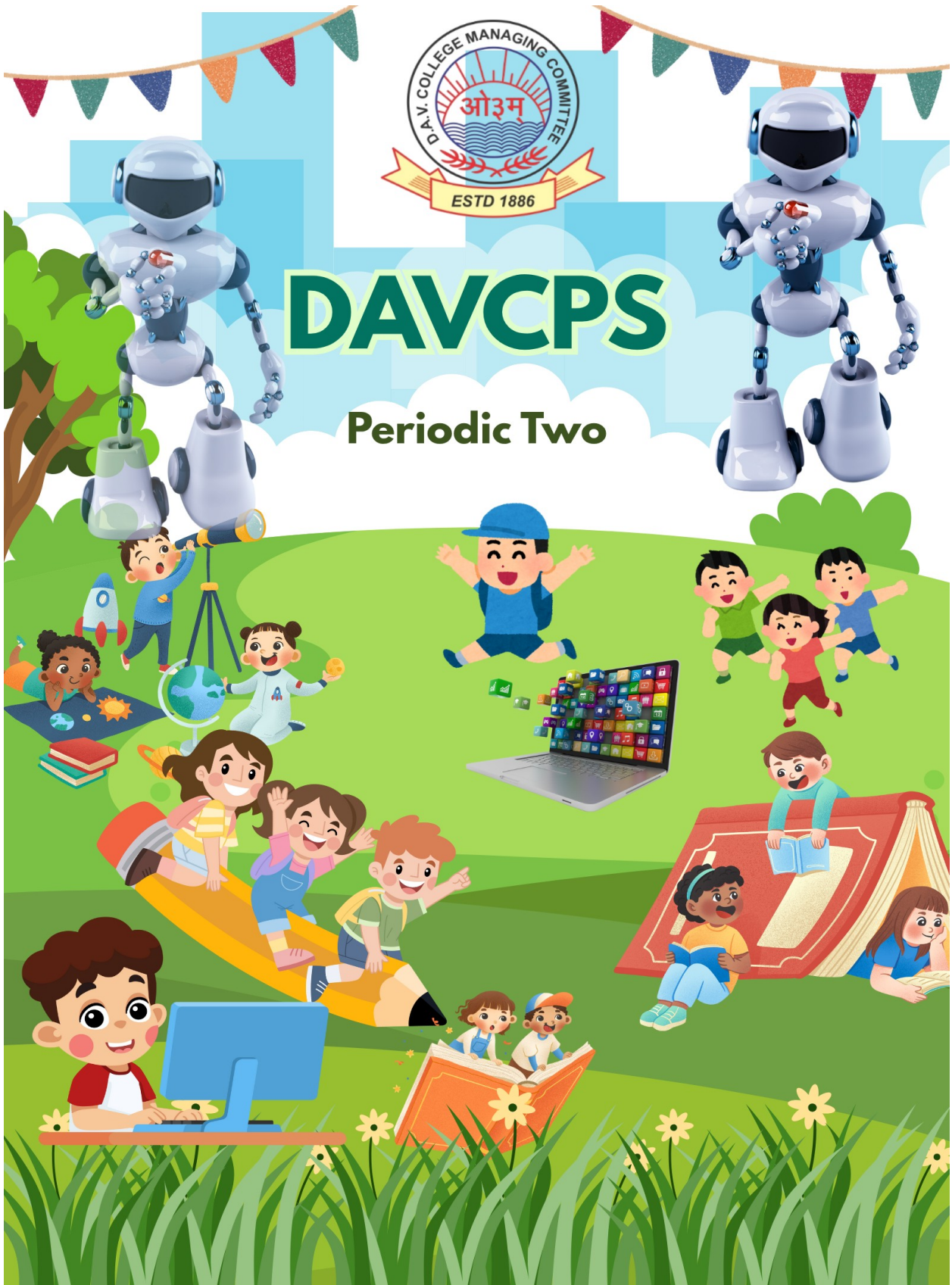# CLASS-IX

DAVCPS

Periodic Two

HINDI

1.निम्नलिखित दिए गए शब्दों में किन उपसर्गों का प्रयोग हुआ है? उपसर्ग तथा मूल शब्द को अलग करके असाइनमेंट सीट पर सुंदर लिखावट में लिखिए:-

प्रवचन' सुचारु' 'दुर्भाग्य' अस्थायी' आकर्षक, संपूर्ण, निराधार, परिवर्तन, उपदेश, दुर्व्यवहार, बहुवचन, बेखटक, बेशर्म, अनजान, प्रतिदिन, समायोजन, चिरायु बजट, प्रत्यक्ष, सद्भावना, खुशबू, अतिथि, अनंत, खुशहाल, उनचास।

2.निम्नलिखित शब्दों में किन प्रत्ययों का प्रयोग हुआ है?
मूल शब्द तथा प्रत्यय को अलग करके असाइनमेंट सीट पर लिखिए:-
 सुंदरता, डिबिया, पागलपन, सामाजिक,सुगंधित,लुहार
भुलक्कड़, मिठास, बढ़ई, टिकाऊ, खेवैया, होनहार, लेनदार, घटिया, गाड़ीवाला, सनकी, दयालु, वैज्ञानिक, नैतिक, पारिश्रमिक, ललाइन, पाठक, गलती, गुणवान, नमकीन।

3.यहां नीचे एक लिंक दिया गया है इस लिंक पर जाइए। यहां उपसर्ग/प्रत्यय पर एक बेहतरीन एक्टिविटी दी गई है वीडियो के अनुसार ही उपसर्ग प्रत्यय पर दी गई एक्टिविटी को पूरा करिए।
https://youtu.be/wAwsSe9-hts?si=3BpjfoyKtlPnWaKA

4.आपके विद्यालय में पीने के पानी की व्यवस्था अच्छी नहीं है। छात्रों की धक्का-मुक्की में एक छात्र गिरकर चोटिल हो गया। इसका उल्लेख करते हुए अपने विद्यालय के प्रधानाचार्य को पीने के पानी की व्यवस्था ठीक करवाने हेतु प्रार्थना पत्र लिखिए।(औपचारिक पत्र)

5.बस में यात्रा करते हुए आपका एक बैग छूट गया था जिसमें जरूरी कागज और रुपये थे। उसे बस कंडक्टर ने आपके घर आकर लौटा दिया। उसकी प्रशंसा करते हुए परिवहन निगम के अध्यक्ष को पत्र लिखिए।(औपचारिक पत्र)

6. आप कला एवं सांस्कृतिक परिषद् के सचिव मुनीश मौर्य हैं। आपके विद्यालय में एक चित्रकला प्रतियोगिता आयोजित की जानी है, जिसमें प्रथम, द्वितीय और तृतीय स्थान पाने वाले छात्रों को पुरस्कृत किया जाएगा। इससंबंध में सूचना आलेख तैयार कीजिए।

7.आपके विद्यालय में परीक्षाएं शुरू होने वाली हैं। इससे विद्यालय के समय में परिवर्तन किया जा रहा है। विद्यालय के हेड ब्वाय/हेड गर्ल की तरफ से एक सूचना आलेख तैयार कीजिए।

8.परियोजना फ़ाइल में अपनी पाठ्य पुस्तक में से किसी पांच कवियों/लेखकों का चित्र लगाते हुए जीवन परिचय लिखिए तथा अलंकार और उसके भेद को सुंदर लिखावट में लिखकर अपनी परियोजना फ़ाइल को पूरा करिए। (आप नेट पर किसी सुंदर परियोजना फ़ाइल से सहायता ले सकते हैं)

9. वर्तमान समय में ग्रामीण जीवन में आमूल-चूल परिवर्तन हुआ है। आपकी नजर में यह परिवर्तन अच्छा है या बुरा?? अपने तर्क देते हुए ग्रामीण जीवन पर एक अनुच्छेद लिखिए।

10. दो बैलों की कथा, ल्हासा की ओर, इस जल प्रलय में पाठ के सभी प्रश्न उत्तर याद करिए।

11.अलंकार की परिभाषा उसके भेद उदाहरण सहित याद करिए। समास और उसके भेद पढ़ कर समझने की कोशिश करिए।

12.विपिन प्रतिदिन अपने टिफिन में फास्ट फूड लाता है। अध्यापिका ने जब ऐसा देखा तो उन्होंने विपिन को हरी साग-सब्जियां और फल भी खाने के लिए कहा। विपिन और उसकी अध्यापिका की बातचीत को संवाद लेखन के रूप में प्रस्तुत करिए।

12..आपके जन्म-दिवस के अवसर पर आपके मामाजी ने आपका पसंदीदा उपहार भेजा है। इसके लिए उन्हें आभार-पत्र लिखिए। (अनौपचारिक पत्र)

English

Do all holidays homework in scrap book in decorative manner

1.   Make a collage on an A3 size sheet. Use photographs **cut out from newspaper and or magazines and saying/ quotes/ slogans made from alphabets or quotes cut out from magazines and newspapers etc. Ensure that the colour scheme is visually pleasing and eye catching. Use any one of the following socially relevant themes.**

•   Save the girl child/ Stop female foeticide

•   Save the environment

•   Protect endangered species

•   Empathy for the differently abled

•   Stop child labour

2.   Smartphone is one of the most important means of communication today. But it has also become a nuisance for some. Write an article on the same in around 120 words and sign yourself as Tarun/Taruna, a student of class IX. You may take help from the following inputs:
Hints:- Important means of communication ----connects a person socially ----keeps people updated --has become a virtual companion ---many advantages---disrupts peace of mind---a constant source of disturbance --- excessive usage leads to many health disorders---cause of deadly accidents on road--the biggest distraction for students ---should be used wisely ---use to be minimised.
3.   Select three poems from the syllabus and highlights the presence of listed literary devices. Explain the literay devices and cite example from selected poems in a thin notebook. Given below is a list of literary devices that you can look for in your poem.

•   Simile

•   Metaphor

•   Personification

•   Alliteration

•   Repetition

•   Oxymoron

•   Refrain

•   Hyperbole

•   Allusion

- Apostrophe

- Irony

- Paradox

- Onomatopoeia

4. Talk to your grandfather/grandmother. Ask them to narrate some incident from their childhood. Describe the incident in your own words. Also compare how your childhood was different from others.

Grammar Worksheet

5. A. Convert the following sentences from Direct to Indirect Speech:

1. She said, "I am reading a book."

2. He asked, "Did you finish your homework?"

3. The teacher said, "The Earth revolves around the Sun."

4. John said, "I will visit Paris next summer."

5. "Can you help me with this problem?" she asked.

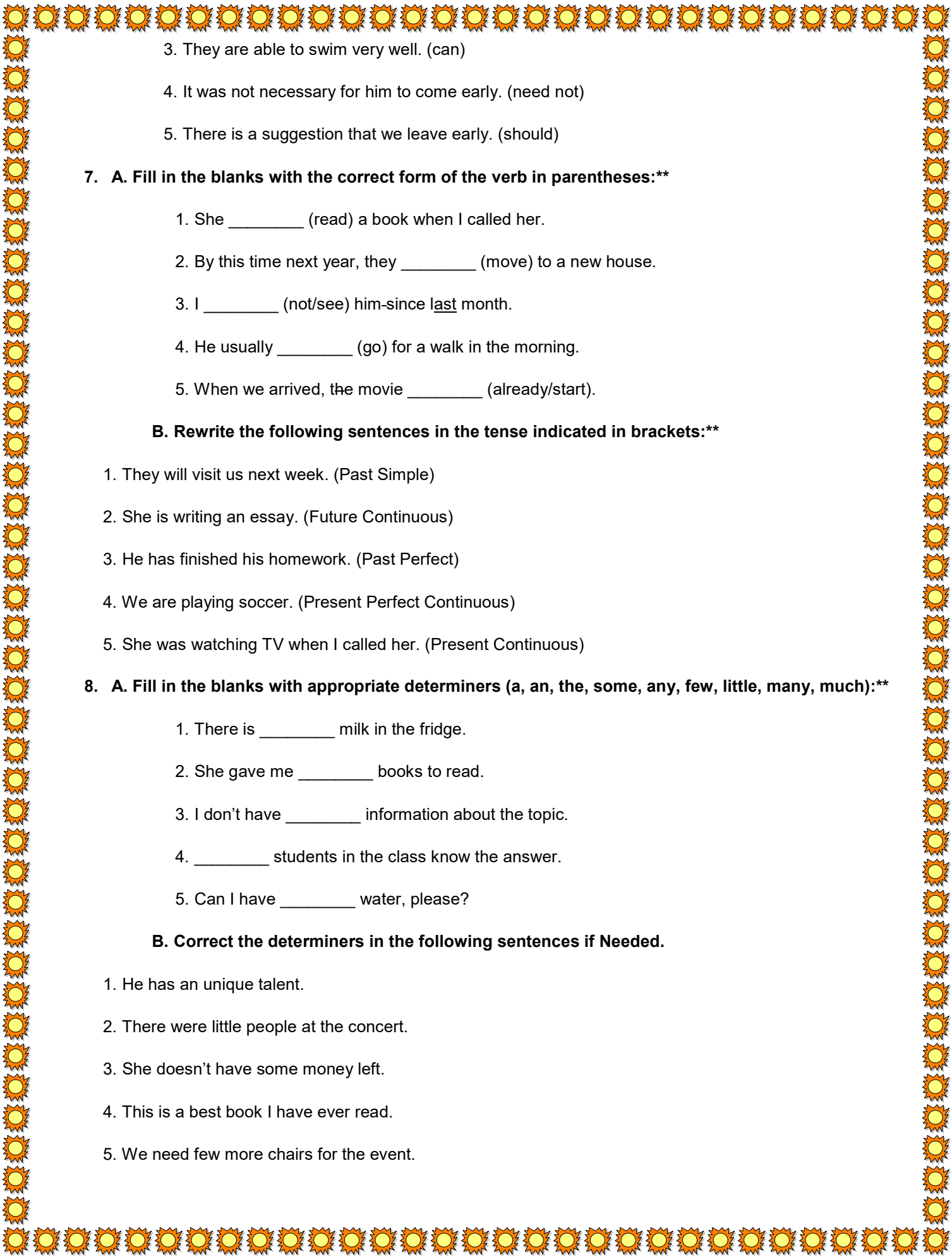**B. Convert the following sentences from Indirect to Direct Speech:**

1. She told me that she was going to the market.

2. He said that he had completed the project.

3. They asked if I could join them for dinner.

4. She mentioned that her brother was a doctor.

5. The manager announced that the meeting would start at 10 AM.

6. **A. Fill in the blanks with appropriate modals (can, could, may, might, shall, should, will, would, must, ought to):**
   1. You _____ see a doctor if you are feeling unwell.
   2. He _____ play the guitar when he was five.
   3. We _____ go to the party if we finish our work.
   4. _____ I borrow your book for a day?
   5. You _____ not smoke in public places.

   B. Rewrite the sentences using the modal verbs in brackets:

   1. It is possible that she is at the office. (might)

   2. It is necessary for you to complete the assignment. (must)

3. They are able to swim very well. (can)

4. It was not necessary for him to come early. (need not)

5. There is a suggestion that we leave early. (should)

7. **A. Fill in the blanks with the correct form of the verb in parentheses:**

1. She _____ (read) a book when I called her.

2. By this time next year, they _____ (move) to a new house.

3. I _____ (not/see) him since last month.

4. He usually _____ (go) for a walk in the morning.

5. When we arrived, the movie _____ (already/start).

B. Rewrite the following sentences in the tense indicated in brackets:

1. They will visit us next week. (Past Simple)

2. She is writing an essay. (Future Continuous)

3. He has finished his homework. (Past Perfect)

4. We are playing soccer. (Present Perfect Continuous)

5. She was watching TV when I called her. (Present Continuous)

8. **A. Fill in the blanks with appropriate determiners (a, an, the, some, any, few, little, many, much):**

1. There is _____ milk in the fridge.

2. She gave me _____ books to read.

3. I don't have _____ information about the topic.

4. _____ students in the class know the answer.

5. Can I have _____ water, please?

B. Correct the determiners in the following sentences if Needed.

1. He has an unique talent.

2. There were little people at the concert.

3. She doesn't have some money left.

4. This is a best book I have ever read.

5. We need few more chairs for the event.

9. A. Choose the correct verb to complete the sentences:

1. Each of the students _____ (has/have) a book.

2. Neither of the answers _____ (is/are) correct.

3. The team _____ (is/are) playing well this season.

4. A bouquet of flowers _____ (was/were) on the table.

5. The news _____ (was/were) surprising.

B. Identify and correct the errors in subject-verb agreement:

1. The committee have made their decision.

2. One of the boys are missing.

3. Neither of the options are available.

4. The books on the shelf is old.

5. Everybody have their own problems.

(Project Work)

Make a beautiful Project File on the Author "Ruskin Bond" in decorative and colourful manner.

Maths

SECTION-A

1. Find an irrational number between $\frac{1}{7}$ and $\frac{2}{7}$. Given that $\frac{1}{7}=0.\overline{0.142857}$.

2. Simplify $\sqrt{72} + \sqrt{800} - \sqrt{18}$.

3. Simplify $64^{\frac{-1}{3}}[\,64^{\frac{1}{3}} - 64^{\frac{2}{3}}\,]$

4. In the following equations, examine whether x, y and z represents rational or irrational number   i) $x^3 = 27$ ii) $y^2 = 7$ iii) $z^2 = 0.16$

5. If $2^x \times 4^x = 8^{\frac{1}{3}} \times 32^{\frac{1}{5}}$,then find the value of x.

SECTION-B

6. Find the value of $\sqrt{\dfrac{2+\sqrt{3}}{2-\sqrt{3}}}$, if $\sqrt{3} = 1.73$.

7. Represent on number line: i) $\sqrt{2}$ ii) $\sqrt{7}$

8. If $x = 3+2\sqrt{2}$, then find whether $x + \frac{1}{x}$ is rational or irrational.

9. Express the following in the form of $\frac{p}{q}$, where p and q integers and $q \neq 0$:

   i) $3.\overline{2}$ ii) $18.\overline{48}$

10. Visualise the representation of $6.4\overline{7}$ on the number line up to 5 decimal places, which is up to 6.47777. Draw figure only.

SECTION-C

11. Find the value of a and b, if $\frac{\sqrt{3}-1}{\sqrt{3}+1} = a + b\sqrt{3}$

12. Represent $\sqrt{10.5}$ on then number line.

13. Simplify $\sqrt[4]{81} - 8(\sqrt[3]{216}) + 15(\sqrt[5]{32}) + \sqrt{225}$.

14. Which is greatest amongst $\sqrt{2}, \sqrt[3]{4},$ and $\sqrt[4]{3}$?

15. Prove that $\dfrac{2^{30}+2^{29}+2^{28}}{2^{31}+2^{30}-2^{29}} = \dfrac{7}{10}$

SECTION-D

16. If $x = \dfrac{\sqrt{2}+1}{\sqrt{2}-1}$ and $y = \dfrac{\sqrt{2}-1}{\sqrt{2}+1}$, find the value of $x^2 + y^2 + xy$.

17. Prove that $\dfrac{2^{36}+\left(\frac{1}{4}\times2^{35}\right)+\left(\frac{1}{8}\times2^{37}\right)}{\left(\frac{1}{16}\times2^{39}\right)+\left(\frac{1}{8}\times2^{38}\right)} = \dfrac{11}{8}$

18. If $x = \dfrac{5-\sqrt{21}}{2}$, then prove that $\left(x^3 + \frac{1}{x^3}\right) -5\left(x^2 + \frac{1}{x^2}\right) + \left(x + \frac{1}{x}\right) = 0$

19. Prove that $\dfrac{1}{3-\sqrt{8}} - \dfrac{1}{\sqrt{8}-\sqrt{7}} + \dfrac{1}{\sqrt{7}-\sqrt{6}} - \dfrac{1}{\sqrt{6}-\sqrt{5}} + \dfrac{1}{\sqrt{5}-2} = 5$

20. Rationalise the denominator of $\dfrac{4}{2+\sqrt{3}+\sqrt{7}}$

Section -E

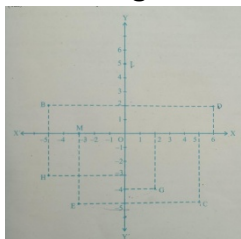**Q. 21** Find P(0),P(1),P(2) for each of the following polynomials:

i) $P(Y)=Y^2-Y+1$

ii) $P(X)=X^3$

Q22 find the value of k if x-1 is a factor of P of x in each of the following cases:

i) $P(x)=x^2+x+k$

ii) $P(x)= 2x^2+kx+\sqrt{2}$

Q23 see the figure and write the following:

i) The coordinates of B

ii) The coordinates of C

iii) The point identified by the coordinates (-3 ,- 5)

iv) The abscissa of the point D

v) The ordinate of the point H

Q24 The cost of a notebook is the cost of a pen. Write a linear equation in two variables to represent the statement.

Q25 Write four solutions for each of the following equations:

i) 2x+y=7

ii) 7x-y=9

iii) x=8y

Q26 Find the value of k ,if x=2,y=-1 is a solution of the equation 2x+3y=2k

Q27 Find the value of k,if x=3,y=5 is a solution of the equation 3kx+6y=7

Q28 Factorise $12x^2-7x+1$

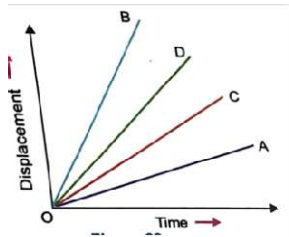**Q29** Factorise $x^3+13x^2+32x+20$
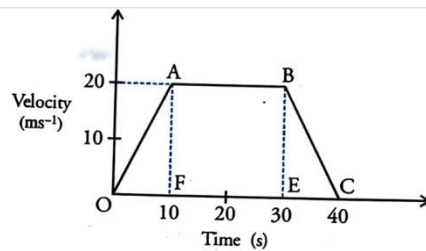
Q30 Factorise $x^3-23x^2+142x-120$

1. The odometer of a car reads 3000 km at the start of a trip and 3400 km at the end of the trip. If the trip took 8h, calculate the average speed of the car in km h^{-1} and ms^{-1}.

2. What do you mean by negative acceleration?

3. A car starts from rest and attains a velocity of 10 m s^{-1} in 40 s. The driver applies brakes and slows down the car to 5 m s^{-1} in 10 s. Find the acceleration of the car in both the cases.

4. Figure shows the displacement-time graph of four children A, B, C and D.

Which child has the highest velocity?

5.The velocity-time graph of a body is shown in figure:

A)State the kind of motion represented by OA and AB.

B) What is the velocity of the body at 10 sec and at 40 sec?
c) Calculate the distance covered by the body between 10th second and 30th second.
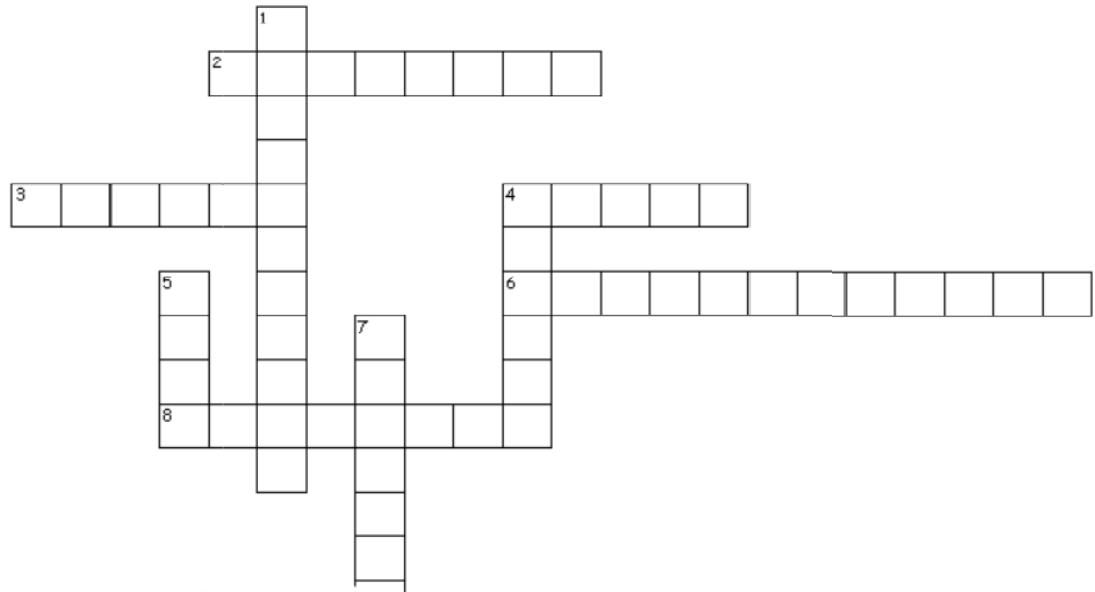
6. A body is moving with constant speed in a circle. Is the body under accelerated motion? Explain
7. Match the column

Column A	Column B
The Slope of the speed-time graph is called	Average Velocity
The arithmetic mean of initial and final velocity	distance
What quantity is obtained by the area under speed time graph	acceleration
The slope of the distance time graph	speed

8.

Crossword Puzzle

Across

2. Physical quantity obtained by dividing displacement with time taken

3. A quantity having both magnitude and direction

4. This remains constant in uniform circular motion

6. It is the slope of speed -time graph

8. This measure the distance travelled by the car

Down

1. This is the other name for negative acceleration

4. The speed is said to be a

5. This is the acceleration of the body with uniform velocity

7. This measure the speed of the car

Biology

Make model on plant cell (1 to 10 roll no)

Animal cell (11 to 20)

Bacterial cell (21 to 30)

Different shapes of cell (31 to 40)

Make a project on

Cell history (roll non 1 to 5)

Mitochondria (6 to 10)

ER (11 to 15)

Golgi bodies (16 to 20)

Chloroplast (21 to 25)

Nucleus (26 to 30)

Cell division (31 to 35)

Cell membrane (36 to 40)

Chemistry

I **Creative task**
Choose one of the following
Option A: Poster making' elements in my home'
Task: Create a colourful poster showing at least 10 elements from the periodic table and where they are found or used at home .Example
*Iron (Fe)-nails ,utensils
*Carbon ©-in pencils (graphite)
*Calcium (Ca)-in milk ,bones
Be creative- include images ,fun facts and short description.
Option B: Comic strips
Create a 6 to 8 panel comic on "A day in the life of a water molecule" narrating its journey through solid, liquid and gas phases.
Option C: 3D model
Make a model of an atom (Bohr model with labelled parts)
II. **Research assignment: "Indian chemist who changed the world"**
Objective: Learn about contribution of Indian scientists.
Task: choose one Indian chemist (e.g C.N.R Rao, Prafulla Chandra Ray) and make a one page report including:
I) biography (short)
ii) key contributions
iii) interesting facts
iv) how there work impacts our lives today.
Include references
III. **Chemistry in cosmetics**
*Research any three ingredients in your shampoo, soap or face cream.

*Explain their chemical names and roles.

IV. **Chemistry riddle challenge**

Create five chemistry -themed riddles or puzzles

Example: I can be solid liquid or gas change my shape but not my mass, what am I?

Answer: Matter.

Submission guidelines

1. Use coloured beautiful A4 sheet or scrapbook

2. Neat handwriting and colourful presentation encouraged

3. Make a beautiful front page showing name ,roll number, subject,class, date.

SOCIAL SCIENCE

I Multiple Choice Questions (MCQs)

1. Who Was The Ruler Of France During The French Revolution?
A) Louis XIV
B) Louis XVI
C) Robespierre
D) Napoleon

2. The Storming Of The Bastille Took Place On:
A) 14 July 1789
B) 4 July 1776
C) 5 May 1789
D) 26 August 1789

3. The Tropic Of Cancer Passes Through How Many Indian States?
A) Six
B) Eight
C) Ten
D) Twelve

4. The Southernmost Point Of India Is:
A) Kanyakumari
B) Indira Point
C) Rameswaram
D) Minicoy Island

5. Which Is The Primary Occupation In Palampur Village?
A) Shopkeeping
B) Farming
C) Transport
D) Carpentry

6. Modern Farming Methods Require:
A) Less Capital
B) More Labour
C) High-Yielding Varieties
D) Old Tools

7. Democracy Ensures:
A) Rule By Monarchy
B) Rule By the Wealthy
C) Rule By Elected Leaders
D) Rule By Dictatorship

8. The Constitution Guarantees The Right To Vote To:
A) Only Men
B) Rich People
C) All Adult Citizens
D) Educated People

9. The Aim Of Human Resource Development Is:
A) To Increase The Population

B) To Create Employment
C) To Make People Assets
D) To Promote Sports

10. Literacy Rate Means:
A) Number Of Farmers
B) Number Of Voters
C) Number Of Literate People
D) Number Of Graduates

11. In Palampur, Electricity Is Used Mainly For:
A) Lighting Homes
B) Running Tubewells
C) Operating Shops
D) Drying Crops

12. Robespierre Followed A Policy Of:
A) Dictatorship
B) Tolerance
C) Moderation
D) Peace

13. India's Longitudinal Extent Affects:
A) Climate
B) Time
C) Seasons
D) Rains

14. What Is The Literacy Rate Of India Approximately?
A) 50%
B) 70%
C) 75%
D) 90%

15. Democracy Stands For:
A) Monarchy
B) Dictatorship
C) Military Rule
D) Rule By The People

16. The Easternmost Longitude Of India Is:
A) 68°7' E
B) 97°25' E
C) 88°30' E
D) 75°10' E

17. The First Written Constitution Was Introduced In:
A) India
B) France
C) USA
D) Germany

18. Infant Mortality Rate Refers To:
A) Number Of Infants Born

B) Number Of Infant Deaths Per 1000 Live Births
C) Infants Per Family
D) Infant Vaccination Rate

19. Which Sector Does Transport Belong To In Palampur?
A) Primary
B) Secondary
C) Tertiary
D) Domestic

20. Bastille Was A Symbol Of:
A) Freedom
B) Tyranny
C) Fraternity
D) Independence

One-Word Answers
1. The Prison Was Stormed By The Revolutionaries In France –
2. Imaginary Line Dividing Earth Into Northern And Southern Hemispheres –
3. Main Occupation In Palampur –
4. Form Of Government Elected By The People –
5. Total Population Actively Working Or Seeking Work –

Short Answer Questions (30–50 Words)

1. What Were The Main Causes Of The French Revolution?
2. Describe India's Geographical Location.
3. Name Two Non-Farming Activities In Palampur.
4. What Do You Understand By Democracy?
5. How Is Human Capital Different From Other Resources?

Essay Type Questions (100–150 Words)

1. Discuss The Effects And Outcomes Of The French Revolution.
2. Explain The Size And Location Of India With Key Geographical Facts.
3. Describe The Main Features Of Farming In Palampur.
4. What Are The Main Features Of Democracy?
5. Why Is Investment In Education And Health Important For Human Resources?

Others Tasks

- **MAKE A PROJECT FILE** ON CH 4 FOREST, SOCIETY AND COLONIALISM
- **MAKE A 3D MODEL ON MODEL VILLAGE**(MODEL VILLAGE MEANS THE VILLAGE IN WHICH ALL THE FACILITIES ARE PROVIDED)
- **MAKE A MINI 3D MODEL OF ANY MONUMENT**
- **LEARN ALL THE CHAPTERS WHICH ARE COMPLETED.**
- **PRACTICE MAPS OF THE CHAPTERS COMPLETED IN CLASS.**

COMPUTER SCIENCE

Type some text in the document and edit it, Demonstrate to use undo and redo option, Use the keyboard and mouse options to select, cut, copy paste, and move text.

Demonstrate to select non- consecutive text items, vertical block of text, Search the word from the text and replace it with another word.

Jump to the given page number in a document, Insert non-printing characters in a document, Check spelling and grammar and apply the changes to the document.

Demonstrate to use synonyms and thesaurus,

Apply various text formatting options for the text, Demonstrate to format paragraphs - indent/align paragraphs, assign font colour, highlighting, and background colour, Assign number or bullets to the lists items, Demonstrate to assign colour,border and background to paragraph, Demonstrate the page formatting -set up basic page layout using styles, Insert page break, Create header footer and page numbers, Define borders and backgrounds, Insert images shapes, special charactersina document, Divide page into columns Format the shape or image.

Thankyou

Enjoy your
Holidays