RAO MOHAR SINGH MEMORIAL Sr. Sec. PUBLIC SCHOOL

CLASS VIII

HOLIDAYS HOMEWORK

WISHING ALL A WONDERFUL AND PROSPEROUS NEW YEAR !!!
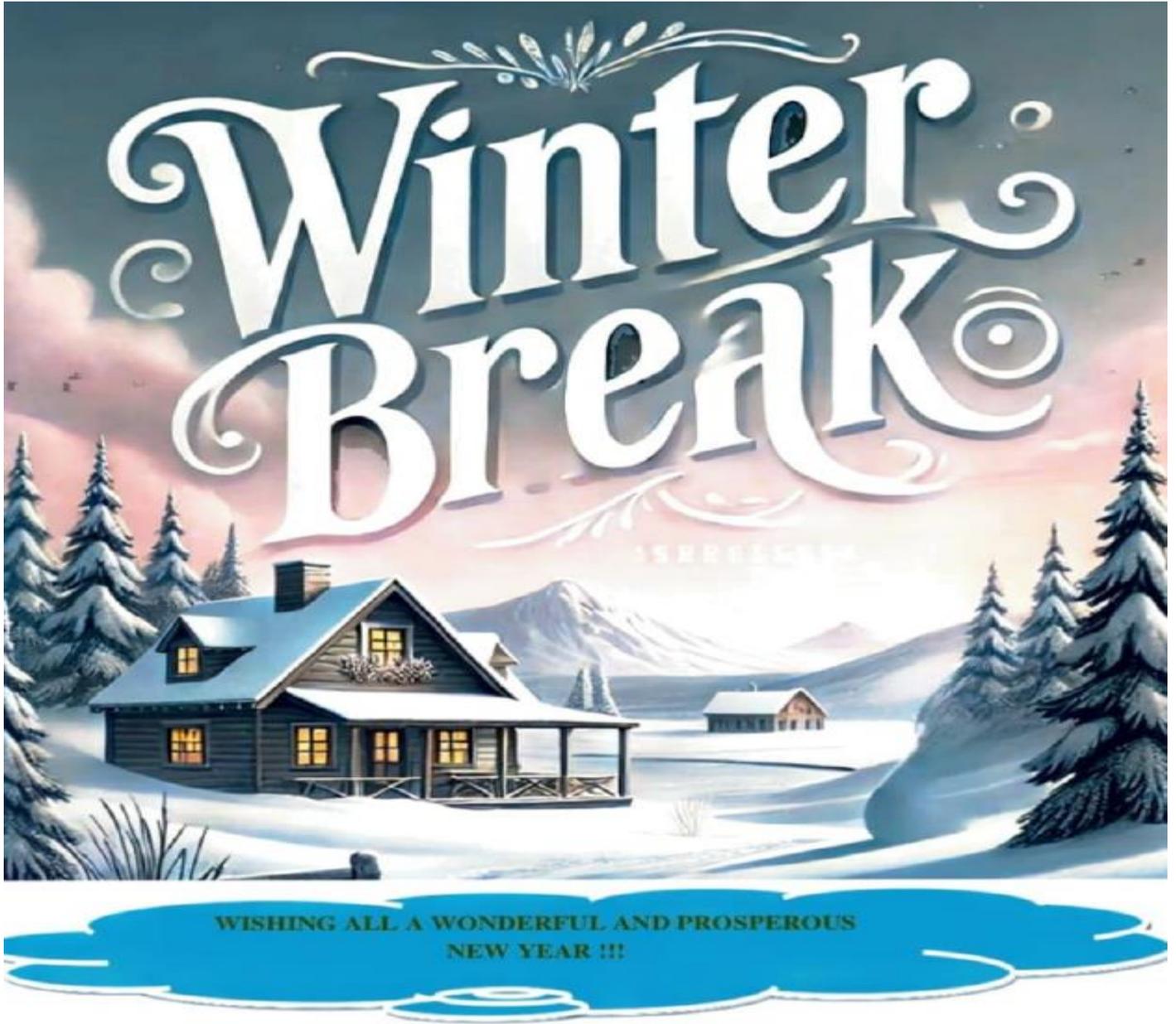
ENGLISH

📖 SECTION A: LITERATURE

1.**Prose Activity**

Choose any ONE lesson from your English textbook and do the following:

Write a short summary (120–150 words)

List 5 new words with meanings

Draw one picture related to the lesson

Write one moral/message of the story

2.**Poetry Activity**

Choose any ONE poem from your book:

Write the central idea

Pick any four poetic devices (simile, rhyme, metaphor, etc.)

Write one stanza you liked most and explain why

Draw an illustration based on the poem

✍️ SECTION B: WRITING SKILLS

3.**Creative Writing**

Attempt ANY TWO:

🖊️ Write a diary entry about your happiest holiday memory.

📝 Write a paragraph on

"If I Were a Superhero" (120 words).

✉️ Write an informal letter to your friend describing your summer vacation.

📚 Write a short story with the title

"The Day Everything Changed".

📚 SECTION C: READING SKILLS

4.**Reading Task**

Read one English storybook (story of your choice).

Write:

Name of the book

Author

Main characters

What you liked most

One lesson learnt

(You may paste or draw the book cover.)

🔤 SECTION D: GRAMMAR (IMPORTANT)

5.**Grammar Practice**

(A) Parts of Speech

Define noun, pronoun, verb, adjective

Write 5 examples of each

(B) Tenses

Write 2 sentences each in:

Present Tense

Past Tense

Future Tense

(C) Articles (a, an, the)

Fill in the blanks:

I saw ____ elephant at the zoo.

She is ____ honest girl.

The sun is ____ star.

(D) Prepositions

Fill in the blanks:

The cat is ____ the table.

We will meet ____ Monday.

The ball fell ____ the box.

(E) Synonyms & Antonyms

Write any 5:

Happy

Brave

Honest

Small

Fast

🎨 SECTION E: FUN ACTIVITY

6.**Vocabulary Scrapbook**

Make a mini dictionary of 10 new English words

Write:

Word

Meaning

Sentence

Decorate with colours and drawings 🎨

हिंदी

प्रश्न 1. पठनकार्य

किसीएकपुस्तक/कहानीकोपढ़करनिम्नप्रश्नलिखें :

पुस्तक/कहानीकानाम
लेखक
मुख्यपात्र
कहानीकासार (120-150 शब्द)

प्रश्न 2. पाठ्यपुस्तककार्य

निम्नपाठोंकेसारलिखिए (प्रत्येक 80-100 शब्द) :

किसी 3 गद्यपाठ
किसी 2 पद्यपाठ

प्रश्न 3. व्याकरणकार्य

निम्नविषयोंपरपरिभाषा + 5-5 उदाहरणलिखिए :

संज्ञा सर्वनाम
विशेषण क्रिया
काल वाच्य

प्रश्न 4. रचनात्मकलेखन

1. अनुच्छेद
विषय : मेराप्रियत्योहार / शीतऋतु (120 शब्द)

2. पत्रलेखन
अपनेमित्रकोशीतकालीनछुट्टियोंकेअनुभवबतातेहुएपत्रलिखिए।

3. संवादलेखन
विषय : दोमित्रोंकेबीचपढ़ाईपरसंवाद (6-8 पंक्तियाँ)

प्रश्न 5.शब्द-भंडार

10 पर्यायवाचीशब्द
10 विलोमशब्द
5 मुहावरे (अर्थ व वाक्यसहित)

प्रश्न 6. कविता/निबंध

देशभक्तिकविता (10-12 पंक्तियाँ)
या
निबंध – मेराविद्यालय (150 शब्द)

प्रश्न 7. परियोजनाकार्य

विषय: हिंदीभाषाकामहत्व

भूमिका
महत्व
निष्कर्ष
1 चित्र (हाथसेबनायायाचिपकायाहुआ)

प्रश्न 8.   निम्नअध्यायोंकेसार 80-100 शब्दोंमेंलिखिए:

    i) भारतकीप्राचीनसभ्यता
        – सिंधुघाटीसभ्यता, नगर-योजना, सामाजिकजीवनऔरसांस्कृतिकविशेषताएँ।
    ii)   वैदिककालऔरसमाज
        – आर्यसंस्कृति, वेद, सामाजिकव्यवस्थाऔरविचारधारा।
    iii)   मौर्यऔरगुप्तकाल
        – अशोककाधम्म, प्रशासन, कलाऔरस्वर्णयुग।
    iv)   मध्यकालीनभारत
        – भक्ति-सूफीआंदोलन, सांस्कृतिकसमन्वय।
    v) आधुनिकभारतऔरराष्ट्रीयआंदोलन
        – ब्रिटिशशासन, स्वतंत्रतासंग्राम, राष्ट्रीयचेतना।

MATHEMATICS

ALLTHEQUESTIONSAREMANDATORY

1. Findtheareaofatrapeziumwhoseparallelsidesare12cmand 20 cm and distance between them is 10 cm.
2. Thebaseofatriangleis14cmanditsareais84cm². Findits height.
3. Findtheareaofarhombuswhosediagonalsare24cmand10 cm.
4. Findtheareaofakitewithdiagonals16cmand12cm.
5. Theperimeterofasquareis48cm. Finditsarea.
6. Findtheareaofacircleofradius7cm.
7. Findthecircumferenceofacirclewhosediameteris28cm.
8. Findtheareaofasemicircleofradius14cm.
9. Simplify: $2^3 \times 2^5$
10. Simplify: $(5^3/5^2)$
11. Write0.00000045instandardform.
12. Evaluate: $(3^2)^4$
13. Simplify: $10^5/10^2$
14. Express3,500,000inpowerform.
15. Simplify: $7^0 + 5^0$
16. Findthevalueof 2^{-3}.
17. If5notebookscost₹120,findthecostof12notebooks.
18. If15workerscandoaworkin20days,howmanydayswill 10 workers take?
19. Identifywhetherthefollowingisdirectorinverse proportion:
    a. Speedandtimeforfixeddistance.
20. Ifxandyareindirectproportionandx=10wheny=5, find y when x = 20.
21. 8mencanfinishaworkin15days.Howmanymenare needed to finish it in 10 days?
22. Ifthecostof3kgsugaris₹150,findthecostof7kgsugar.
23. Writeanexampleofinverseproportionfromdailylife.
24. If y∝xandy=18whenx=6,findywhenx=10.
25. Factorise: $x^2 + 7x + 10$

26. Factorise: $a^2 - 9$

27. Factorise completely: $4x^2 - 25$

28. Factorise: $x^2 - 5x - 6$

29. Factorise: $3x(x + 4) - 5(x + 4)$

30. Factorise: $a^2 + 5a + 6$

31. Factorise: $9y^2 - 1$

32. Factorise: $x^3 + x^2 - x - 1$

33. Draw the graph of x+y=6.

34. Plot the points (2,3),(−2,−3) and (3,−2).

35. Write the coordinates of the origin.

36. In which quadrant does the point (−4,5) lie?

37. Plot the graph of y= 2x.

38. Find the x-coordinate of a point on y-axis.

39. How many quadrants are there in a Cartesian plane?

40. Write the coordinates of a point on x-axis.

41. Plot a graph to show the relation between distance and time.

42. Find the smallest 3-digit number divisible by 6,8 and 12.

43. Find the HCF of 36 and 84.

44. Find the LCM of 12,15 and 20.

45. Check whether 101 is a prime number.

46. Find the sum of first five natural numbers.

47. Find the digit at the tens place of 7^3.

48. Write the divisibility rule of 9.

49. Find a number which is divisible by both 4 and 9.

50. Find the prime factors of 360.

SCIENCE

SECTION A: MULTIPLE CHOICE QUESTIONS (MCQs)

1. The area reserved for conservation of wildlife is called:
   a) Zoo
   b) Biosphere reserve
   c) Sanctuary
   d) Botanical garden
2. Which of the following is a non-renewable resource?
   a) Wind
   b) Solar energy
   c) Coal
   d) Water
3. The hormone responsible for growth during adolescence is:
   a) Insulin
   b) Thyroxine
   c) Growth hormone
   d) Adrenaline
4. The transfer of electric charge through a conductor is called:
   a) Magnetism
   b) Static electricity
   c) Electric current
   d) Lightning
5. The phenomenon due to which light bends while entering another medium is:
   a) Reflection
   b) Dispersion
   c) Refraction
   d) Scattering

SECTION B: FILL IN THE BLANKS

1. Endangered plants and animals are protected in _____.
2. Petroleum is also known as _____ oil.
3. Adolescence is the period between childhood and _____.
4. Lightning is a form of _____ discharge.
5. A _____ mirror can form both real and virtual images

SECTION C: TRUE OR FALSE

1. Coal is an inexhaustible natural resource.
2. National parks allow human activities like grazing.
3. Testosterone is a female hormone.
4. Like charges attract each other.
5. The image formed by a plane mirror is always virtual.

SECTION D: VERY SHORT ANSWER QUESTION

1. What is deforestation?
2. Name one product obtained from petroleum other than petrol.

3. Define adolescence.
4. What causes lightning?

SECTION E: SHORT ANSWER QUESTIONS

1. Differentiate between wildlife sanctuary and biosphere reserve.
2. Why should we conserve fossil fuels?
3. Mention any three physical changes during adolescence.

SECTION F: LONG ANSWER QUESTIONS

1. Explain the importance of conservation of plants and animals.
2. Describe the formation of coal .
3. Discuss the role of hormones during adolescence.

SECTION G: DIAGRAM / SKILL-BASED QUESTIONS

1. Draw and label : Ray diagram for law of reflection
2. Observe any electrical appliance at home and write:
   o Name
   o Source of electricity
   o Safety precautions related to electricity

SECTION H: THINKING & APPLICATION QUESTIONS (HOTS)

1. What would happen if all forests disappeared from Earth?
2. Why is adolescence called a "turning point" in life?
3. Why should we not use mobile phones during thunderstorms?
4. Can we see objects if there is no light? Explain.

SECTION I: ACTIVITY-BASED LEARNING TASKS

Activity 1: Balanced Diet Planner

Prepare a one-day balanced diet chart for an adolescent including:

Breakfast

Lunch

Snacks

Dinner

Mention nutrients present in each meal.

Activity 2: Shadow Study

Observe shadows at:

- Morning
- Noon
- Evening

Write:

- Size of shadow
- Position of Sun

Activity 3: Energy Awareness Task

Make a list of:

- Fossil fuel-based items used daily
- Alternatives to reduce their usage

Activity 4: My Science Learning Reflection

Answer in your own words:

1. Which chapter did you enjoy the most and why?
2. Which topic was challenging?

Activity 5: Science in News

Find a **newspaper or online news** related to:

- Lightning
- Earthquake
- Electric shock

Activity 6:

Write **3 common myths** related to adolescence (food, growth, hygiene).

Write:

- Myth
- Scientific fact

SOCIAL SCIENCE

Use short answers, points, tables, maps, or drawings. Do not copy from the internet. Write what you understand.

1. When People Rebel: 1857 and After

Map Work:

On an outline map of India, mark and label any three centres of the Revolt of 1857 (for example: Delhi, Kanpur, Lucknow, Jhansi).

Written Task:

Choose one centre and write:

- Who led the revolt there?

- One reason people rebelled in that area.

(4–5 lines)

2. Industries

Map Work:

On an outline map of India, mark and label:

- One iron and steel centre

- One cotton textile centre

Written Task:

Answer in points:

- Why are industries not set up everywhere?

- Write one advantage and one problem of industries.

3. Understanding Marginalisation

Written Task:

Choose one marginalised group from the chapter.

Write:

- One reason why this group became marginalised

- One government effort to support them

Paste or draw a newspaper cutting related to marginalisation and write a 3-line summary.

4. Civilising the Native, Educating the Nation

Project Task:

Ask your parents or grandparents:

- What was their school like?

- What subjects were taught?

Write:

Two differences between education today and education during British rule.

Draw an old classroom and a modern classroom.

5. Women, Caste and Reforms

Map Work:

On an outline map of India, mark one place related to a social reformer you studied (birthplace or area of work).

Written Task:

- Name of the reformer

- One reform they worked for

- Why this reform was important

6. Making the National Movement

Project Task:

Create a small timeline of any five events of the national movement between 1857 and 1947.

Write one sentence:

Which event do you think united people the most and why?

7. Public Facilities

Project Task:

Observe your locality and fill the table:

Facility – Available – Needs Improvement

Water

Electricity

Roads

School

Hospital

Written Task:

Which facility should the government improve first and why?

DRAWING

1.Draw a freedom fighter sketch and color it on A3 sheet.

2. Craftwork : Make a wall hanging on republic day using different things.

(Plastic bottle, wooden stick ,colorful sheets, tissue paper thread)

COMPUTER

Section A – Multiple Choice Questions

i. The tag used to insert an image in HTML is:

    a) <image>   b) <img>   c) <src>   d) <pic>

ii. Which of the following attributes specifies the path of an image?

    a) src   b) path   c) href   d) loc

iii. The <a> tag in HTML is used to create:

    a) a link   b) an image   c) a table   d) a frame

iv. The <frameset> tag divides a web page into:

    a) headings   b) columns or rows   c) tables   d) lists

v. An algorithm is a sequence of:

    a) Random steps   b) Logical steps   c) Functions   d) Loops

vi. The while loop in Python runs:

    a) fixed no. of times   b) as long as a condition is true   c) until the user stops it   d) None of these

vii. The function len("Python") returns:

    a) 5   b) 6   c) 7   d) Error

viii. A user-defined function in Python starts with the keyword:

    a) define   b) def   c) function   d) create

ix. The AI domain that focuses on image recognition is:

    a) NLP   b) Robotics   c) Computer Vision   d) Data Science

x. AI systems that can understand and respond to human speech belong to:

    a) NLP   b) Machine Learning   c) Robotics   d) Deep Vision

xi. The loop that iterates through a sequence of values in Python is:

    a) while loop   b) for loop   c) nested loop   d) repeat loop

xii. Which tag helps you add a clickable image?

    a) <a>   b) <img>   c) <a href> with <img>   d) <frame>

Section B – Fill in the Blanks

i. The tag <img> requires the _____ attribute to specify the image source.

ii. The <a> tag uses the _____ attribute to link webpages.

iii. A group of statements that repeat again and again is called a _____.

iv. The keyword used to define a function in Python is _____.

v. The domain of AI that deals with human conversation is _____.

vi. A _____ is a set of step-by-step instructions to solve a problem.

vii. A function can return a value using the keyword _____.

viii. The <frameset> tag divides the browser window into multiple _____.

ix. In a for loop, the number of iterations is known _____ execution.

x. The process of giving meaning to words in AI is known as _____.

Section C – Short Answer Questions

i. Explain the use of the <img> tag in HTML with an example.

ii. What is the difference between a relative and absolute path in HTML images?

iii. Define hyperlink. Give an example using the <a> tag.

iv. What is an algorithm? Why is it important in programming?

v. Explain the use of the for loop in Python with a small example.

vi. How does a while loop differ from a for loop?

vii. Write any two advantages of using functions in Python.

viii. What is a string in Python? Write an example showing slicing.

ix. Name and describe any three domains of AI.

x. Explain the term Algorithmic Intelligence in your own words.

Section D – Practical Zone

1. HTML PRACTICE

Create a webpage titled "My Favorite Tourist Places" that includes:

- A heading and short paragraph
- At least two images of places
- One hyperlink to a tourism website
- Divide the page into two frames — left frame for list, right for images

(If computer not available, write HTML code in your notebook.)

2. PYTHON PRACTICE

a. Using Loops:
Write a program to print the table of any number entered by the user.
b. Using Strings:
Write a Python program to count how many vowels are present in a string.
c. Using Functions:
Write a function add (a, b) that returns the sum of two numbers.
d. Using Nested Loops
Write a program to display the following pattern:
*
**
***
****
*****

3. ALGORITHM TASK
Write an algorithm and flowchart to find the largest among three numbers.

Section E – Artificial Intelligence Awareness

1. Match the following:

Column A	Column B
a) NLP	i) Self-driving cars
b) Robotics	ii) Speech recognition
c) Computer Vision	iii) Image detection
d) Algorithmic Intelligence	iv) Step-by-step problem-solving

2. Answer briefly:

a) What is the role of Computer Vision in daily life?

b) How does AI help doctors in healthcare?

c) Mention two examples of NLP-based applications.

d) How does Algorithmic Intelligence improve decision-making?

3. Think and Write:

Write a paragraph (8–10 lines) on:

"How Artificial Intelligence is Transforming Our Future."

🎨 Section F – Creative Task

According to Roll No.

i.   Create a colourful chart showing "Generation of Computers and key Technologies Used." **.(Roll No.: 1-15)**
  - Mention features, year range, main components, and examples

ii.   Make a detailed chart on "Types of Memory in Computer." **(Roll No.: 16-30)**
  - Include: Primary(RAM, ROM, Cache),Secondary(HardDisk,SSD), and Tertiary(Cloud)
  - Write a short note on "Difference between RAM and ROM."

iii.   Create a poster/chart on "Domains of Artificial Intelligence" — include images and short descriptions for:**(Roll No.: 31-45)**
  - Robotics
  - Natural Language Processing
  - Expert Systems
  - Computer Vision
  - Machine Learning

❖ Write a short note on:

"Why Learning Coding and AI is Important for Students."

SANSKRIT

प्र.1 गद्यांशपठित्वाप्रश्नानाम्उत्तराणिलिखत्

ग्रीष्मकालःसुखदस्यवसंतकालस्यभागआगच्छति।ग्रीष्मकालेसूर्यस्यअत्पःप्रखरःवर्तते।मानवाःपशु–पक्षिणःवृक्षाः ,
पादपाःचापिप्रखर–तापेनव्याकुलःभवन्ति।केचित्जनाःविहारायपर्वतस्थलेषुगच्छन्ति ,
केचित्गृहेवातानुकूलितेषुकक्षेषुतिष्ठन्ति।नदयः , स्रीमाः , तदागाःचशुष्यन्ति।सर्वत्रजलस्यअभावःदृश्यते।परंयदिग्रीष्म–
कालस्यप्रचण्डःतापःनस्यात्प्रकारिमेघाःकथंभविष्यन्ति।मेघंविनाकुतःवृष्टिः ?
ग्रीष्मकालस्यप्रभावात्एववर्षाऋतुःआगच्छति।ग्रीष्मकालेगुलमोहर–वृक्षेषुरक्तानिपुष्पाणिअतिवशोभन्ते।मल्लिका–
मालती–पादपेषुसुगंधमयनिश्वेतानिपुष्पाणिविकसन्ति।

1. एकपदेनउत्तराणिलिखत्–
   (क)ग्रीष्मकालःकस्यकालस्यभागआगच्छति?
   (ख)जनाःकिमार्थंपर्वतस्थलेषुगच्छन्ति?
   (ग) ग्रीष्मकालेकस्यअभावःदृश्यते?
   (घ) ग्रीष्मकालेकेशुवृक्षेषुरक्तानिपुष्पाणिआगच्छन्ति?
2. तृतीय .यथानिर्देशम्उत्तराणिलिखित
   स्यात् = धातुः........ , लकारः........ , वचनम्........
   पुरुषः ....
   विभक्तिः2 . विहाराय= .... वचनम्..........

प्र.2 शुद्धपदंचित्वालिखत्..

1. सप्त+ऋषि) सप्तार्षिः , सप्तर्षि , सप्तेषिः (...........
2. मम+एव) ममेव , ममिव , ममैव (.............
3. सर्व+उपरि) सर्वपरि , सर्वोपरि , सर्वपरि (...........
4. पितृ+आदेशः) पितादेशः , पितरादेशः , पित्रादेशः (...........
5. यदि+अपि) यद्यापि , यद्यपि , यदियपि (............

प्र.3 सन्धिःविच्छेदःवाक्रियताम्) सन्धिअथवाविच्छेदकीजिए (–

1. महर्षिः..........
2. चापि........
3. ममेच्छा......
4. अध्ययनाभिलाषा.........
5. भवति........

प्र.4 स्वरसन्धिः परिभाषालिखत्

....

प्र.5 गुणसंधिपरिभाषाउदाहरणंचलिखत्।

प्र.6 आयादिसंधिपरिभाषाउदाहरणंचलिखत्-

प्र.7 संधिकतिविध: नामानिचलिखत्।

प्र.8 कतिकारकाणिनामानिचलिखत्।

प्र.9 कर्मकारकस्यपरिभाषाउदाहरणंचलिखत।

प्र.10 संप्रदानकारकस्यपरिभाषाउदाहरणंचलिखत।

प्र.11 संख्याांसस्कृतेलिखत्- (50-70)

प्र.12 खाद्धातु) लट्, लृट, लड्, लोट् (रूपाणिलिखत्।

प्र.13गद्यांशपठित्वाप्रश्नानामउत्तराणिलिखत्-

पूर्वदिशायाम्उदेतिसूर्य:पश्चिमदिशायांपश्चिमदिशायांचअस्तंगच्छतिइतिदृश्यतेहिलोके।परंनअनेनअवबोध्यमस्तियत्सूर्योगति शीलइति।सूर्योऽचल:पृथिवीचचलायास्वकीयेअक्षेघूर्णितिइतिसाम्प्रतंसुस्थापित:सिद्धान्त:।सिद्धान्तोऽयंप्राथम्येनयेनप्रवर्तित: , सआसीत्महानगणितज्ञःज्योतिर्विच्चआर्यभटः।पृथिवीस्थिरावर्ततेइतिपरम्परयाप्रचलितारूढि:तेनप्रत्यादिष्ट।तेनउदाहतंयद्गति शीलायांनौकायाम्उपविष्ट:मानव:नौकांस्थिरामनुभवति , अन्यान्चपदार्थान्गतिशीलान्अवगच्छति।एवमेवगतिशीलायांपृथिव्याम्अवस्थित:मानव:पृथिवीस्थिरामनुभवतिसूर्यादिग्रहान्च गतिशीलान्वेत्ति।

(क)सूर्यकुत्रगच्छति?
(ख)सूर्य: कथम्अस्ति?
(ग) क: सुस्थापितसिद्धांत:?
(घ) शून्यस्यआविष्ककर्ताक:?

प्र.14 दशम: पाठ: नीतिनवनीतम्श्लोकानाम्हिंदीभावार्थंलिखत्

अभिवादनशीलस्यनित्यंवृद्धोपसेविनः।

चत्वारितस्यवर्धन्तेआयुर्विद्यायशोबलम्।।।।।

यंमातापितरौक्लेशंसहेतेसम्भवेनृणाम्।

नतस्यनिष्कृति:शक्याकर्तुंवर्षशतैरपि।।2।।

तयोर्नित्यंप्रियंकुर्यादाचार्यस्यचसर्वदा।

तेष्वेवत्रिषुतुष्टेषुतपः:सर्वसमाप्यते।।3।।

सर्वपरवशंदुःखंसर्वमात्मवशंसुखम्।

एतद्विद्यात्समासेनलक्षणंसुखदुःखयोः

प्र.15"संस्कृतभाषामहत्व"विषयेअनुच्छेदंलिखन्तु-

प्र.16 गुरुऊकारान्तशब्दरुपाणिलिखत्।

प्र.17 छात्रअकारान्तशब्दरुपाणिलिखत्।

प्र.18 भगिनीसप्तकेकानिराज्यानिसन्तिनामावालीलिखत्–

प्र.19 पदनिर्माणंकुरुत–

धातुःप्रत्ययःपदम्

कृतुमुन्।.......

तृतुमुन्।.........

प्र.20।उपसर्गः   धातुः   प्रत्ययः

उष्णम्।.........

सम्पूज्।.......

आनी।..........

परादा।.........