# PM SHRI KENDRIYA VIDYALAYA SUKNA

## HOLIDAY HOMEWORK FOR WINTER BREAK

### SESSION: 2023-24

------------------------------------------------------------

## CLASS: IX

***ENGLISH:***

1. The students must read the newspaper daily and acquaint themselves with current affairs. 2. The students are advised to revise the entire syllabus of PT3 which will commence from 16-1-24.

3. Read the book Wings of Fire by A P J Abdul Kalam and write its book review. OR Read any book by Sudha Murty and write a review on it.

4. a. You are going on a school picnic with your classmates and teachers. You are very excited. The night before the trip you sit down to write your diary. Describe what you have planned for the picnic and how you hope to enjoy yourself there. You are Ramesh/Raneena Write your dairy in 100-150 words.

b. Your Summative Assessment examinations are round the corner. The syllabus is vast and whenever you sit down to study you are unable to concentrate as you are very nervous. You feel you may let down your parents and your teachers who have a lot of expectations from you. Write a diary entry about your feelings in about 100-150 words.

c. Write a story that begins, "I wish I could forget the time I… because …" in about 250 words.

5. Revise the poems On Killing a Tree and A Slumber did my spirit seal. Write examples of the poetic devices used in both the poems.

6. Write a character sketch each, of Santosh Yadav and Maria Sharapova.

7. What qualities do you attribute to the Happy Prince, in the story by the same name?

8. The text Kathmandu, you read is a travelogue where the author, Vikram Seth, talks about his visit to two sacred places in Kathmandu. Imagine that you were with Vikram Seth on his visit to Pashupatinath temple, and you were noting down all that you saw and did there, so that you could write a travelogue later. Record in point form • What you see when you reach the Pashupatinath temple • What you see happening inside the temple • What you do when inside the temple • What you see outside the temple • What your impressions are about the place.

9. There is an error in every line. Write the incorrect and correct word.

a) Community service sensitise people to (a) ------ other's needs and supports inclusive

(b) ---------- development to the underprivileged

(c) ------- sections with society. Courses about social

(d) ------ work prepares frontline workers to

-------------------------------------------------------------------

(e)----- takes up assignments in social welfare

(f) ---------- organizations. Practical work including

(g) --------- 50 hour of structured internship to man projects.

(h) ------------ b) Gold prices is now touched an all time (a) ------ high. Some says it could be a bubble (b) --------- that may grown but will at last (c) --------- burst after recession in a (d) ----------- west was over. So, investment (e) -------- in gold may not be the good idea now. (f)-------

## *HINDI:*

| IX | Hindi | 1- पठित पाठों के प्रश्नोत्तर लिखकर याद करें। <br> 2 अपठित गद्यांश (2) व अपठित पद्यांश (2) को प्रश्नोत्तर सहित लिखें। <br> 3- दो औपचारिक और दो अनौपचारिक पत्र लिखें। <br> (3)20-20 उपसर्ग व प्रत्यय को लिखकर दो-दो शब्द बनाइए। <br> (4) समास की परिभाषा भेदों की परिभाषा सोदाहरण लिखें। |
|----|-------|---|

## *MATH:*

1. ACTIVITY 1 –Take a plastic ball and find its surface area by using thread.
2. ACTIVITY 2—Prove that the angle at the centre of a circle is double that of the angle on any part of circle subtended by same arc.
3. A corn cob shaped somewhat like a cone, has the radius of its broadest end as 2.1 cm and length (height) as 20 cm. If each 1 $cm^2$ of the surface of the cob carries an average of four grains, calculate the following find
   i) What is the curved surface area of the corn cob?
   ii) Find how many grains you would find on the entire
   iii) If volume of one grain is 0.125$cm^3$ find the volume of total grains.

4. In parallelogram ABCD, two points P and Q are taken on diagonal BD such that DP = BQ. Show that: (i) Δ APD ≅ Δ CQB  (ii) AP = CQ
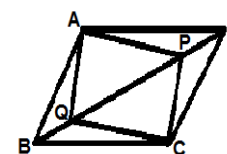
(iii) Δ AQB ≅Δ CPD

(iv) AQ = CP

------------------------------------------------------------

(v) APCQ is a parallelogram

5.  The three sides of a triangle are in the ratio $3:5:7$ and its perimeter is 300. Find its area.
6.  Prove that equal chords of a circle are equal distance from the centre.

A class teacher brings some clay into the classroom to teach the topic of menstruation. First, she forms a cylinder of radius 6 cm and height 8 cm and then she molds that cylinder into a sphere.

Find the volume of the cylindrical shape.
(a) 288 π cm³ (b) 244 π cm³
(c) 240 π cm³ (d) 216 π cm³

When clay changes into one shape to other, which of the following remains same?
(a) Area (b) C.S.A (c) Radius (d) Volume

The radius of the sphere is
(a) 2 cm (b) 4 cm (c) 5 cm (d) 6 cm

Find the volume of sphere, the teacher made.
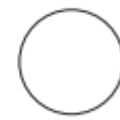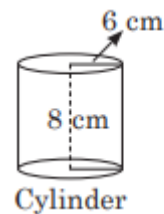(a) 288π cm³ (b) 184π cm³
(c) 240π cm³ (d) 216π cm³



6 cm

8 cm

Cylinder    Sphere

***SCIENCE***:

Answer the following questions:

1.  A sphere of mass 25kg attracts another sphere of mass 24kg with a force of 0.1milligram weight. If distance between the centers of two spheres is 20cm, what is the Value of G?
2.  The gravitational force between force two objects is 100 N. How should the distance between these objects be changed so that force between them becomes 50 N?
3.  How much would a 70 kg man weigh on moon? What will be his mass on earth and moon? Given g on moon = 1.7 m/s2
4.  The mass of a block made of certain material is 13.5 kg and its volume is $15 \times 10^{-3}$ m³ will the block float or sink in water?
5.  **Art integrated project-** " Agriculture practices and patterns, types of crops in West Bengal and Tamil Nadu".

**NOTE:**

1.  Make a separate notebook for HHW and write above five questions and its answers in it.

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

2. Art integrated project to be done in groups. Marks will be awarded for this.


*SOCIAL SCIENCE*

A. Project work on Forest, society and colonialism with natural vegetation and wildlife
   - Coming of the colonial powers in India
   - Introduction of laws/ policies that affected the forest management system in India
   - Impact of colonialism on forest and their natural resources
   - Ongoing challenges in balancing human development with environmental conservation
   - Maps/ pictures
   - Conclusion
B. Short answer type questions (political science)
   1. What does Parliament consist of?
   2. How many members are nominated in Rajya sabha by the President?
   3. When does the President call for a joint meeting of both houses of Parliament?
   4. Which court supervises the functioning of other courts?
   5. Who appoints the judges of the Supreme Court?
   6. What is Judicial review?
   7. Who can remove the judges of Supreme court?
   8. What is PIL? Why does judiciary enjoy a  high level of confidence among the people?
   9. Who is the presiding officer of lok sabha and rajay sabha?
   10. How can the judge of the supreme court be removed?


*ARTIFICIAL INTELLEGIENCE*:

1. **Write in Your notebook**

   | Shortcut | Keys Description |
   |----------|------------------|
   | Alt+F | File menu options in current program. |
   | Alt+E | Open Edit options in current program. |
   | Alt+Tab | Switch between open programs. |
   | F1 | F1 is used by almost every Windows program to display help. |
   | F2 | Rename a selected file. |
   | F5 | Refresh the current program window. |
   | Ctrl+D | Bookmarks the current page in most Internet browsers. |
   | Ctrl+N | Create a new or blank document in some software. |
   | Ctrl+O | Open a file in the current software. |
   | Ctrl+A | Select all text. |
   | Ctrl+B | Change selected text to be bold. |
   | Ctrl+I | Change selected text to be in italics. |
   | Ctrl+U | Change selected text to be underlined. |

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

| | |
|---|---|
| Ctrl+F | Open find window for current document or window. |
| Ctrl+S | Save current document file. |
| Ctrl+X | Cut selected item. |
| Shift+Del | Cut selected item. |
| Ctrl+C | Copy selected item. |
| Ctrl+Ins | Copy selected item |
| Ctrl+V | Paste Shift+Ins Paste |
| Ctrl+Y | Redo last action. |
| Ctrl+Z | Undo last action. |
| Ctrl+K | Insert hyperlink for selected text. |
| Ctrl+P | Print the current page or document. Home Goes to beginning of current line. |
| Ctrl+Home | Goes to beginning of document. End Goes to end of current line |

2. Explain SDGs?
3. What is AI project cycle? Explain each of them?
4. What is AI ML and DL?
5. what is ruled based approach?
6. what is Learning based approach?
7. What is decision tree?
8. what is Neural Network?
9. Features of Neural Network ?
10. What are domains of AI? Explain with example?
11. What is AI ? Explain with example?