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HOLIDAY HOMEWORK 2022-23

CLASS- IX

ENGLISH:- Bee hive:- (i) Write and learn word meanings of chapter 1, 2, 3, 4 in your home work note book. (ii) Write and learn question-answer of chapter 1, 2, 3, 4 in your home work note book. (iii) Learn summary of chapter 1, 2, 3 and 4 in Hindi as well as in English.

Moments:- (i) Write question-answer of chapter 1, 2, 3 and 4 in your home work note book. (ii) Write and learn word meanings of chapter 1, 2, 3 and 4. (iii) Write summary of chapter 1, 2, 3 in your home work diary.

Grammar:- (i) Write an application to the principal requesting him to grant you leave for 5 days as you are suffering from fever. (ii) Write a letter to your father demanding him Rs. 1000 as you want to purchase some new books in English. (iii) Write a letter to your friend inviting him/her on your birthday. (iv) Write and learn 4 diaries written in your class. (v) Write and learn definition of noun and pronoun and its kinds with examples. (vi) Learn definition of adjective and write it in your home work note book with its kinds. (vii) Write definition of verb with its kinds.

हिन्दी:- (1) रसखान जी का जीवन परिचय लिखिए।

(2) 'दो बैलों की कथा' नामक कहानी का सार अपने शब्दों में लिखिए।

(3) 'मेरे संग की औरतें' नामक संस्मरण में लेखिका की परदादी के उन मूल्यों का उल्लेख कीजिए, जिन्हें आप अपनाना चाहते हैं।

(4) अलंकार से आप क्या समझते हैं? अलंकार के भेदों का उदाहरण सहित उल्लेख कीजिए।

(5) 'हिन्दी भाषा एवं विकास' नामक शीर्षक पर एक निबंध लिखिए।

(6) 'हिन्दी वर्णमाला' का चित्र बनाकर (चार्ट) उल्लेख कीजिए।

MATHS:- (i) Classify the number $-\sqrt{0.4}$ as rational or irrational.

(ii) classify the number $(1+\sqrt{5}) - (4+\sqrt{5})$ as rational or irrational.

(iii) express $0.6 + 0.7 + 0.47$ in the form $\frac{p}{q}$, where P and q are integers and $q \neq 0$.

(iv) Simplify:- $(256)^{-4}$

(v) Insert a rational number and an irrational number between $\sqrt{2}$ and $\sqrt{3}$

(vi) If both $x-2$ and $x-\frac{1}{2}$ are factors of $px^2 + 5x+r$ show that $p=r$

(vii) simplify:- $(2x-5y)^3 - (2x+5y)^3$

(viii) factorize:- (a) $2x^2 - 7x - 15$ (b) $2x^3 - 3x^2 - 17x + 30$

SCIENCE:-

Physics: (i) Using following data, draw time- displacement graph for a moving object.

Time (s)	0	2	4	6	8	10	12	14	16
Displacement (m)	0	2	4	4	4	6	4	2	0

Use the graph to find average velocity for first 4s for next 4s and for last 6s.

- (ii) State which of the following situations are possible and give an example for each of these.
- An object with a constant acceleration but with zero velocity
 - An object moving in a certain direction with an acceleration in the perpendicular direction.
- (iii) An object has moved through a distance. Can it have zero displacement? If yes support your answer with an example.
- (iv) A train is travelling at a speed of 90 km/h brakes are applied so as to produce a uniform acceleration of -0.5 m/s^2 . Find how far the train will go before it is brought to rest.

Chemistry:- (i) on converting 25° C , 38° C and 66° C to Kelvin scale, write the correct sequence of temperature. (ii) Alka was making tea in a kettle suddenly she felt intense heat from the puff of steam gushing out of the spout of the kettle. She wondered whether the temperature of the steam was higher than that of the water boiling in the kettle comment. (iii) comment on the following statements: (a) evaporation of an aqueous solution decreases with an increase in humidity. (b) Evaporation produces cooling. (c) sponge though compressible is solid.

Biology

Q.1 Rahul's mother was going to make pickle for this she cut the vegetables in to small pieces and put them in sun for few hours. Rahul was observing all the activities very curiously and asked his mother if why she had put the salted vegetables in the sun. Among the following what might be the most appropriate answer for his question?

- So that the pickle may get extra flavor.
- So that the cut vegetables may absorb the vitamin D as a nutrient from the sun rays.
- So that the vegetables may lose all the water by diffusion and evaporation and become dry.
- So that the salt may get evenly and properly absorbed by the vegetables.

Q.2 Prepare a creative charts of animal cell and plant cell.

Q.3 Perform the activity at home to compare osmosis in normal potato and boiled potato. Submit the video of it along with the report on it. Mention your conclusion too.

Q.4 Make a PPT for the project-

Guidelines----- (i) The presentation should be of 10-15 slides.

(ii) Slide one – name of the school, subject, name of the student, class and section.

(iii) Slide two- index (by using table)

(iv) Slide three- introduction your topic.

(v) Slide four to 10 or 15 content

(vi) Last slide- acknowledgement (it's a must)

The Slide should contain the following information

- History of covid-19 It will include place of origin, who predicted/detected it first, from the place of origin how did it travel to other parts of the world? Which countries are badly affected?
- Medicines- what type of medicines, vaccine is being administered? How effective is it? Which one is better? How does vaccine work? Why the time gap in required between the two doses of vaccine?
- Make two cartoon figures of corona virus using any app.
- Write a slogan on covid-19 (positive and motivating).

SOCIAL STUDIES:- (1) prepare a list of Indian states their capital & folk dances (2) short note on (i) global warming (ii) ozone layer (iii) environment pollution (iv) ecosystem (3) arguments against and for democracy prepare an activity.

COMPUTER:- (i) Draw any two input devices on a chart paper (only for girls) (ii) Draw any two output devices on a chart paper (only for boys) (iii) Read chapter-2 and translate it in Hindi using Google translator. (iv) Learn chapter- 1 full.

Note:- Summer holiday homework is available on school website:- www.santkarshnipublicschool.in and respective classes whatsapp groups.