

ARMY PUBLIC SCHOOL, PATIALA
HOLIDAYS' HOMEWORK
SESSION:-2019-2020
CLASS:IX

English

1. Do the following assignment in a scrap file.
 - a) Read the novel "Gulliver's Travels" and write a review on it. Draw its cover page also.
 - b) Collect information on any two famous musicians. Write about their birth, family background, educational qualification, major achievements etc.
 - c) Make a project on any eminent Social Activist in about 150 words.
2. Make a brochure on any famous tourist spot.
3. Draft a poster on any one of the following:
"Safety Rules" or "Ayurveda - a blessing"

Science
BIOLOGY

1. What term did Robert hooke give to cell?
2. Name the red colour bearing plastic.
3. A fresh water Amoeba when placed in marine water,shrinks after some time. Name the phenomenon responsible for it.
4. Which tissue is responsible for growth in plants?
5. What is the term given to the gap between two nerve cells?
6. Name the tissue responsible for the following functions in our body:
 - a) Storage of food
 - b) Movements of limbs
 - c) Movement of food in the alimentary canal
7. Why xylem and phloem are called complex tissues? How are they different from each other?
8. Distinguish between chloroplast and leucoplast with respect to their pigments and functions.
9. How would
 - a) A plant cell
 - b) Animal cellBehave when placed in hypotonic solution of sodium chloride? Explain.
10. Why ATP called energy currency of the cell?

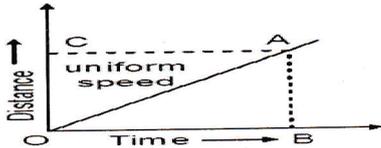
CHEMISTRY

1. How can we convert a gas into a liquid state?
2. Name one property of liquids and gases which proves that their molecules are moving contantly.
3. Can we regard high fever as matter?
4. Do we sweat on a dry day or on a humid day.
5. Write the name of fourth state of matter.
6. At room temperature why oxygen is a gas while water is a liquid?
7. Write the factors and their effects on matter which are responsible for bringing a charge in physical state of matter.
8. Why does people often sprinkle water on the ground in front of their homes during the hot summer evenings?

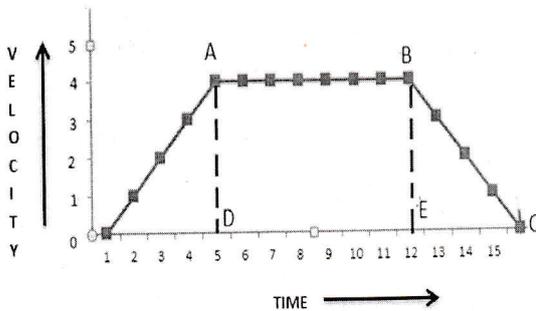
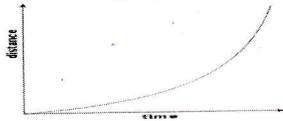
9. Explain the following:
- Dry ice sublimates
 - Ice floats over water.
10. Give the points of distinction between
- Evaporation and boiling.
 - Liquid state and gaseous state.

PHYSICS

- What does the slope of velocity- time graph represent?
- What is the difference between scalar and vector quantity?
- State the meaning of uniform motion.
- A car accelerates from 6m/sec to 16m/sec in 10 seconds. Calculate the acceleration.
- What type of motion is represented by the following:



6. The velocity-time graph of a truck is plotted below



- Calculate the magnitude of displacement of truck in 15 seconds.
 - During which part of the journey was the truck decelerating?
7. A car moves with a speed of 30km/h for half an hour, 25km/h for one hour and 40km/h for two hours. Calculate the average speed of the car.
8. A frog hops along the straight line path from point A to point B in 10 seconds and then turns and hops to point C in another 5 seconds. Calculate the average speed and average velocity of the frog for the motion between
- A to B
 - A to C (through B)



Hindi

1. निम्नलिखित विषयों में से प्रत्येक विषय पर 80–100 शब्दों में अनुच्छेद लिखिए :-

क. आज का युवा संसार

- युवाओं में अदम्य साहस व शक्ति
- जागरूकता
- देश के प्रति प्रेम

ख. संयुक्त परिवार

- आज की आवश्यकता
- युवा पीढ़ी को रिश्तों का ज्ञान
- मिल-जुलकर रहने की भावना
- अच्छे संस्कारों का ग्रहण
- अकेलेपन से मुक्ति

2. अनौपचारिक पत्र :-

क. दुर्घटनाग्रस्त मित्र को सांत्वना देते हुए एक पत्र लिखिए।

ख. आपका खोया हुआ सामान लौटाने पर किसी अपरिचित को धन्यवाद देते हुए एक पत्र लिखिए।

3. संवाद :-

क. ग्यारहवीं कक्षा में विषयों के चयन से संबंधित माँ व पुत्री के बीच लगभग 50 शब्दों में संवाद लिखिए।

ख. सड़कों पर फैली गंदगी के प्रति चिंता व्यक्त करते हुए दो छात्रों के बीच लगभग 50 शब्दों में संवाद लिखिए।

4 विज्ञापन :-

क. आप अपना पुराना कंप्यूटर बेचना चाहते हैं। उससे संबंधित 25–50 शब्दों का विज्ञापन तैयार कीजिए।

ख. आप अपनी बहन के लिए एक पुराना स्कूटर खरीदना चाहते हैं। उससे संबंधित 25–50 शब्दों का विज्ञापन तैयार कीजिए।

5. रहीम के दोहे याद करें।

Social studies

Prepare a project on 'Disaster Management' showing various types of disasters in the CW notebook.

History

Read and Learn the following chapters-

CH- 1 The French revolution

CH-3 Nazism and The rise of Hitler

Geography

Read and Learn the following chapter-

CH-1 India size and location

Civics

Read and Learn the following chapter-

CH-2 What is democracy? Why democracy?

Economics

Read and Learn the following chapters-

CH-1 Story of village Palampur

CH-2 People as resource

Maths

- Express the following as fraction:
 - $15.\overline{712}$
 - $23.\overline{43}$
- Simplify: $\frac{3\sqrt{2}-2\sqrt{3}}{3\sqrt{2}+2\sqrt{3}} + \frac{\sqrt{12}}{\sqrt{3}-\sqrt{2}}$
- Find the value of a if,
$$\frac{6}{3\sqrt{2}-2\sqrt{3}} = 3\sqrt{2} - a\sqrt{3}$$
- Simplify:
 - $(125)^{2/3} \div (125)^{4/3} \times (125)^{1/3}$
 - $\frac{1}{3} \times (\sqrt{5})^6 \times (36)^{3/2}$
- Locate $\sqrt{6}$ and $\sqrt{10}$ on a number line
- Simplify $(1^3 + 2^3 + 3^3)^{1/2}$
- If $a = \frac{3+\sqrt{5}}{2}$, then find the value of $(a + \frac{1}{a})^2$
- If $x = 7 + 4\sqrt{3}$, then whether $x^2 - (\frac{1}{x})^2$ is rational or irrational?
- Find value of a if $(x + a)$ is factor of $x^3 + ax^2 - 2x + a + 4$
- Factorise :
 - $x^3 - 10x^2 - 53x - 42$
 - $2y^3 - 5y^2 - 19y + 42$
- Factorise:
 - $4x^2 + 25y^2 + 9z^2 - 20xy - 30yz + 12zx$
 - $9x^2 + 24xy + 16y^2$
- Find value of m if $(2x-1)$ is factor of $8x^4 + 4x^3 - 16x^2 + 10x + m$
- Plot the points P (-3, 2), Q (-7,-3), R (6,-3) and S (2, 2) on graph paper and name the figure formed.
- Plot A (5, 3), B (-2, 3) and D (5,-4). Join them to form a square ABCD and find co-ordinates of C.
- Plot the points A (-1, 2), B (3, 2), C (-1,-1) and D (3,-1). Identify the figure and find its perimeter.

Information Technology

- Describe different types of keys of a QWERTY keyboard in a practical file.
- Explain functions of any ten special keys.(practical file)

Art and craft

- Make two nature studies – one in color and one in black and white.
- Make two geometrical designs – one in color and one black and white.