HOLIDAY HOMEWORK SESSION 2020 – 2021

CLASS IX

English:

- ➢ 1 The school observed a COVID19 Safety Drive recently. You were chosen to participate in the Street Play which was showcased at public. Write a paragraph in your register in 100 – 150 words describing the event.
- ➢ Compose a poem on the topic, 'Life in Lockdown' and write it on an A4 size sheet. It should be a self-composed poem.
- ➢ After listening an interview of a famous personality, take interview of your grandparents or parents on their past life style and that of present day, hardships they faced and record on an A4 size sheet.
- ➢ Complete the work of all the chapters taught in your register.

Social Science :

1. Choose any one topic and make project in scrap file –:

   a) Read newspaper and make project on the Super Cyclones – 'Amphan' in West Bengal and 'Nisarga' in Mumbai. Describe the areas affected, do the maximum use of paper cuttings, pictures and maps. It should be hand written in project in scrap file.
   b) Collect information about the life, ideas and work done by these philosophers in French revolution and make project by using maximum pictures.
   John Locke, Jean Jackques Rousseau and Monstesquieu.

2. Choose any one country and design a poster on A-3 size sheet to describe the democratic trend followed by different countries of the world.
   Eg – China, Pakistan, Mexico, Brazil, India etc.

3. Complete your work and learn all chapters of pre-midterm.

हिंदी :

2020 2021

ग्रीष्मावकाश कार्य

कक्षा 9

विषय हिंदी

1 पांच विषयों पर अलग-अलग विज्ञापन तैयार करना।

2 अलग-अलग विषयों को चुनकर पांच अलग-अलग स्लोगन तैयार करना।

3 व्याकरण खंड का अभ्यास कार्य करना।

4 प्री मिड टर्म पाठ्यक्रम का अभ्यास कार्य करना।

5 5 तरह के विषय चुनकर पांच अलग-अलग अनुच्छेद लेखन का कार्य करना।

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Science :

Q1. Complete the following science experiments in your practical file:

   a) To prepare stained temporary mounts of i) onion peel and ii) human cheek cells and to record observations and draw labelled diagrams.
   b) To separate the components of a mixture of sand, common salt and ammonium chloride by sublimation.
   c) To determine the melting point of ice and the boiling point of water.
   d) To prepare :
       i)   A true solution of common salt, sugar and alum.
       ii)   A suspension of soil, chalk powder and fine sand in water.
       iii)   A colloidal solution of starch in water and egg albumin/milk in water and distinguish between these on the basis of: transparency, filtration criterion and stability.

Q2. Revise pre mid Term syllabus and complete your work.

Q3. Complete the worksheets.

GREENWAY MODERN SCHOOL
SCIENCE HOLIDAY HOMEWORK WORKSHEET
CHAPTERS INCLUDED: 1, 5 and 8

Chapter: Matter in our surroundings

A. **True or false:**
a) An increase in temperature and decrease in pressure can liquefy gases.
b) We can get the smell of perfume sitting several metres away because of evaporation.
c) During summer, water kept in an earthen pot becomes cool due to evaporation.
d) Kelvin is the SI unit of temperature.
e) Pressure and temperature determine the state of a substance.

Chapter: Cell

A. **Fill in the blanks:**

a) ------------------------------ is the packaging and dispatching unit of the cell.
b) Amoeba obtains its food by the process of ----------------------------.
c) -------------------- is known as the powerhouse of the cell.
d) Cell theory was proposed by --------------------- and -------------------.
e) ------------------------ and ---------------------- have their own DNA and ribosomes.

B. **Answer in one word or one sentence:**
a) The plant cell is mainly composed of ------------------------------.
b) Name the processes by which CO_2 and H_2O move into and out of the cell.
c) Name the organelle which has membrane bound cell filled with powerful digestive enzymes. Write its any one function in the cell.

C. **Multiple choice questions:**
i) Organelle without a cell membrane is:
   a) Ribosome   c) Golgi Apparatus
   b) Chloroplast   d) Nucleus
ii) The undefined nuclear region of prokaryotes are also known as :
   a) Nucleus   c) Nucleolus
   b) Nucleic acid   d) Nucleoid
iii) Living cells were discovered by:
   a) Robert Hooke   c) Purkinje
   b) Leeuwenhoek   d) Robert Brown
iv) Which of the following can be made into crystal:
   a) A bacterium   c) An amoeba
   b) A virus   d) None of the above

Chapter: Motion

A. **Fill in the blanks:**
a) The slope of x-t graph gives the --------------------- of motion.
b) Area below v-t graph is a measure of -------------------------.
c) The speedometer of a car measures its -----------------------------.
d) ------------------------- of a body is the total distance travelled divided by the total time taken to cover this distance.

B. **True of false:**

a) Magnitude of displacement can be equal to or lesser than distance.
b) If particle speed is constant, acceleration of the particle must be zero.
c) A body can have constant velocity and still have varying speed.

GREENWAY MODERN SCHOOL
SCIENCE HOLIDAY HOMEWORK WORKSHEET
CHAPTERS INCLUDED – 1, 5 & 8

Answer the following questions

1. Explain why:
   a) Arubber band undergoes a change in shape on stretching still we call it a solid.
   b) Evaporation produces cooling.
   c) A gas fills completely the container in which it is kept.
2. You are provided with a mixture of Naphthalene and Ammonium Chloride. Suggest an activity to separate them with well labelled diagram.
3. Water as ice has a cooling effect whereas water as steam may cause severe burns.Explain these observations.
4. What is meant by latent heat of fusion?Why does the temperature of a substance remain constant during its melting or boiling?
5. A sample of water found to boil at 102®C at normal pressure. Is the water pure? Will this water freeze at 0®C?
6. Discuss the sublimation of Ammonium Chloride with the help of an activity.
7. Differentiate between diffusion and osmosis
8. Who discovered cell? When and how?
9. Give reason why:
   a) Nucleus is called the controller of the cell.
   b) Mitochondria is called power house of the cell.
   c) Lysosomes are called suicidal bags of the cell.
   d) A cell is a building unit of an organism.
10. What happens when:
    a) Dry apricots are left for some time in pure water and later transferred to sugar solution.
    b) A red blood cell is kept in concentrated saline solution.
    c) The plasma membrane of a cell breaks down.
    d) Theo leaves are boiled in water first and then a drop of sugar syrup put on it.
    e) Golgi apparatus are removed from the cell.
11. Differentiate between:
    a)   RER and SER.
    b)   Prokaryotic cell and Eukaryotic cell along with diagrams.
12. Differentiate between plant cell and animal cell.Draw well labelled neat diagram of both.
13. How do Amoeba obtain its food? Discuss with the help of diagram.
14. How chromatin, chromatid and chromosomes are related to each other.
15. How meiosis is different from mitosis?
16. Differentiate between:
    a) Distance and displacement.
    b) Speed and velocity.
    c) Uniform motion and no uniform motion
17. Define acceleration. Derive first equation of motion graphically.
18. Derive second and thirdequation of motion graphically.
19. A car travels 30km at a uniform speed of 40km/hr and the next 30km at a uniform speed of 20km/hr.Find its average speed.
20. The velocity of a car is18m/sec. Express the velocity in km/hr.
21. A particle moves 3m north, then 4m east and finally6m south.Calculate its distance travelled and displacement.
22. A 60m long train moving on a straight level track passes a pole in 5sec.Find:
    a) The speed of the train
    b) The time it will take to cross a 540m long bridge.
23. A stone is thrown in a vertically upward direction with a velocity of 5m/sec.If the acceleration is10m/s^2 in the downward direction, what will be the height attained by the stone and how much time will it take to reach there?
24. Circular motion is an accelerated motion.Discuss.
25. Following table shows the velocity of a car-taxi at regular intervalsof time. Plot a graph for given data and calculate:
    a) Acceleration of the car
    b) Distance travelled by the car in this time duration with the help of graph.

Mathematics :

- Make projects on the following topic

1. Pascal's triangle
2. Fibonacci numbers

- Prepare for Pre mid term examinations

- Practice from NCERT Exemplar also

STAY HOME, STAY SAFE!