



Summer Vacation Home Work
Class – IXth Session 2017-18

Subject – Biology

Subject Teacher: Mr. A. K. Gupta

1. Carry out the following osmosis experiment and note the observation in copy with diagram:
Take four peeled potato halves and scoops each one out to make potato cups. One of these potato cups should be made from a boiled potato. Put potato cup in a trough containing water.
Now,
 - a) Keep cup **A** empty
 - b) Put one teaspoon sugar in cup **B**
 - c) Put one teaspoon salt in cup **C**
 - d) Put one teaspoon sugar in the boiled potato cup **D**.Keep these for two hours. Then observe the four potato cups and answer the following:
 - i. Explain why water gathers in the hollowed portion of **B** & **C**.
 - ii. Why is potato **A** necessary for this experiment?
 - iii. Explain why water does not gather in the hollowed out portions of **A** & **D**.
2. Write about the Autobiography of following biologists with their pictures:
 - i. Schleiden
 - ii. Schwann
3. Explain five examples of diffusion and osmosis from your daily life experiences.
4. Take water as a solvent in all cases and select five different types of substances like salt, sugar etc used in home kitchen as a solute and prepare five different types of hypertonic solution and hypotonic solution. Write all these activities.
5. By using Internet / Book / Magazine / Literature or Journal, prepare separate list of functions of diffusion and osmosis for the survival of a cell.
6. Plasma membrane of a cell is a living structure. Why? Why not cell wall is a living structure? Justify it.

Physics

Subject Tacher : Mr. K.R.

Make short notes on following in about 500 in project paper:-

A) Quantum field b) luxyons (c) brandyons (d)tau neutrino (note :-can take help from internet).

Chemistry

Subject Tacher : Mr. N.R.

1. Give reason: (provide scientific approach to your answer)
 - (A) Why does a desert cooler cool better on a hot dry day?
 - (b) How does the water kept in an earthen pot become cool during summer?
 - (c) Why does our palm feel cold when we put some atone or sprit or petrol or Perfume cotton clothes in summer?
 - (d)Why we prefer cotton clothes in summer?
 - (e) Why is it advisable to use pressure cooker at higher altitudes for cooking food?
 - (f) Why a balloon bursts when kept in sun after sometime?

(g) Out of four gases _____ partionleft.

(h) On a hot sunny day ,why do we feel pleasant sitting under the tree ?

(i) Why do two ice block join to form on block when pressed together ?

(j) Ice at 0 c appears colder in the mouth than water at 0c

2. Answer the following:-

(A) what are oxide ? give two example for basic oxide ,acidic oxides, amphoteric oxides &neutral oxides

(b) What is an elements? who used the form 'element' for the first time? Name one tetra atomic tri atomic and octa atomic element

(c) what are metalloids ? name some of them.

(d)give two point of differences between a pure substance and impure substance.

(e) how do following metals react with water? Write the involved reaction too.

Na, Mg, Fe, Au

3. Answer in brief:

(a)Name of lustrous non-metal.

(b) Name the allotropic form of anon metal which in a good culture of electricity .

(c) Name a non metal which is known to form the largest number of compounds.

(d) Name a non metal other than carbon which shows allotropy.

(e) Name a non metal which is required for combustion other than oxygen.

(f)Name the non metal that form common salt with sodium.

(g) Name a non metal which exist in liquid state at room temperture.

(h) Name the oldest nobel gas .

(i) Name the radio active nobel gas .

(j) Name the most reactive non metal .

(k)name the reactive metallic element.

(l) Name the highest metal with density .

(m) Name the heaviest metal with density.

(o) Name the crying metal

(p) Name one artificial metal.

(q) Name a metal which melt when handled.

Subject – Computer Science

Subject Teacher : Mr. A.K.S.

1. Complete Exercise 3 all questions learn & write in H.W Copy.

विषय – हिंदी

विषय शिक्षक: डॉ० आलोक, चंद्रकांत नागमणि

1- हिंदी की चर्चित दस लघुकथाएँ लिखित रूप में प्रस्तुत करें ।

2- दस उत्कृष्ट देशभक्ति कविताएँ, लिखें और याद करें ।

3. अलंकार किसे कहते हैं? यह कितने प्रकार का होता है सभी की परिभाषा लिखकर लाइये ।

विषय – संस्कृत

विषय शिक्षक: श्री ए एन झा

प्रथम: अभ्यास: (संस्कृत वर्णमाला)

अभ्यास प्रश्नाः समाधेयाः ।

पचमं अभ्यासः – अजन्त 7 हलन्त – सर्वनाम – संख्यावाचक – शब्दानाम अभ्यास प्रश्ना समाधेयाः । (पृ. सं. 33 तः 57 पर्यन्तम्) ।

क. षष्ठः अभ्यासः – लट् लकारः

ख. सप्तमः अभ्यासः – लङ् लकारः

ग. अष्टमः अभ्यासः – लृट् लकारः

घ. नवमः अभ्यासः – लोट् लकारः

ङ. दशम अभ्यासः – विधिलिङ् लकारः

एतेषाम् अभ्यासानां

प्रश्नाः समाधेयाः ।

Subject – Math

Subject Teacher: Mr. G.C.S & Mr.T.B.K

Chapter –Introduction to Euclid Geometry

Formative Assessment (Unit Test) page106

Question - 3, 5, 6,12,16,18

2 Ex 4 (A)- Q 4(iv, vi), 5(iii, iv) 6(i i),7,10,11,14,15

3 Ex 4(B)- 2,5,6,8,10,11,12,13,4,15

2(B)- 1(iii),2(iii)3(iii),4(ix),5(vii)

2(C)- 9,10,11

2(D)- 8,10,12,14,16

2(E)- 22,24,26,28,30,32,34

Social science

History

Prepare report based on political events /incidents took place around the world during the period of vacation (15th June) .Compare those with the circumstances which led to the French revolution-

IXA-roll no-1-11

IXB-roll no-1-11

IXC-roll no-1-10

IXD-roll no-1-9

Civics

Prepare a report on the conditions prevailing in Indian political parties in recent days (March to June)

Connect the situation with the success of democracy in India.

IXA-roll-12-22

IXB-roll-12-22

IXC-roll-11-20

IXC-roll-10-18

Economics

Prepare a report showing the side-effects of the scientific cultivation and the effects of current weather condition on various crops in your locality, study should be based on the weather condition of May and June

IXA-roll-34-44

IXB-roll-34-43

IXC-roll -31-40

IXD-roll-28-36

Geography

1. Do all the questions given in the classroom
2. on the political map of the work;-

(a) Local India and her neighboring countries those are bigger than India in size

(b) Locate six countries those are bigger than India in size

(c) show the water ways to connect the different parts of the world from India Mediterranean sea

Black sea

Baltic Sea

Caspian Sea

China sea

Red sea

Yellow sea

English sea

Gulf of maniac

Hudson Bay

Gulf of kuchch

Gulf of manner

Polk strain and any other strain

IXA roll no -22-33

IXB_ roll no-22-30

IXC-roll no-21-30

IXD-roll no-19-27

Project activity

1 Collects information about the formation of MT. Himalayas ‘

2. Collect information about natural calamities (if any happen) from 1st June to 20th June in India.

English

Subject Teacher : Mr. C.K.Jha

1. Chapter: tense (wren & martin) Exercise 45 to 47. The entire task given.

Note:-those who have some other grammar, solve all the exercise based on tense.

2. determine (workbook)

3. all the tasks given under the unit

4. Note those who have not been supplied the text book, shone try to copy the tasks and do them.

English

Subject Teacher : Mrs. R.M.

Textual questions from ‘How I Taught my grand Mother to Read’. Question No. 4,5 & 6.