HOLIDAY HOMEWORK (2014-15)
Class: IX

Subject- Assamese

Prepare a diary note for each day of the first week of your summer vacation mentioning the dates, days and time in A4 size paper.

Subject: French

Lisez le livre " Autour du Monde en 80 Jours" ecrit par Jules Verne.

Ou

Faites une presentation power point a propos de la France. (minimum 10 slides)

Subject: Maths

1. Prove that

$$\frac{1}{2+\sqrt{3}} + \frac{2}{\sqrt{5}-\sqrt{3}} + \frac{1}{2-\sqrt{5}} = 0 \qquad\qquad 2011$$

2. If $a + 8\sqrt{5}\, b = \frac{8+\sqrt{5}}{8-\sqrt{5}} - \frac{8-\sqrt{5}}{8+\sqrt{5}}$, determine the rational numbers a and b. 2012

3. If $a = \frac{\sqrt{3}-\sqrt{2}}{\sqrt{3}+\sqrt{2}}$ and $b = \frac{\sqrt{3}+\sqrt{2}}{\sqrt{3}-\sqrt{2}}$, find the value of $a^2 + b^2 - 5ab$. 2011

4. Rationalise the denominator $\frac{4}{2+\sqrt{3}+\sqrt{7}}$ 2011

5. If a = 2, b = 3 then find the values of the following

   (i) $\left(a^b + b^a\right)^{-1}$ (ii) $\left(a^a + b^b\right)^{-1}$ 2011

6. If $a = 7 - 4\sqrt{3}$, find the value of $\sqrt{a} + \frac{1}{\sqrt{a}}$ 2011

7. Express $1.3\overline{2} + 0.\overline{35}$ as fraction in simplest form. 2011

8. If $x+y+z = 8$ and $xy + yz + zx = 20$, find the value of $x^3 + y^3 + z^3 - 3xyz$.

9. Find the possible expressions for the dimensions of a cuboid whose volume is $x^3 - 23x^2 + 142x - 120$ cubic units.

10. If both *(x-2)* and $\left(x - \frac{1}{2}\right)$ are factors of polynomial $px^2 + 5x + r$, show that $\frac{p}{r} = 1$.

11. If $x + \frac{y}{2} = 9$ and $xy = 4$ find $x^3 + \frac{y^3}{8}$. 2012

12. Factorise : (i) $5(2a + b)^2 - (2a + b) - 4$ 2012
    (ii) $x^3 - 8x^2 + 5x + 14$
    (iii) $x^3 - 3x^2 - 9x - 5$ 2011

13. Find α and β, if *(x+1)* and *(x+2)* are factors of $x^3 + 3x^2 - 2\alpha x + \beta$ 2011

14. If remainder is same when polynomial $p(x) = x^3 + 8x^2 + 17x + ax$ is divided by *(x+2)* and *(x+1)*. 2011

15. Multiply $9x^2 + 25y^2 + 15xy + 12x - 20y + 16$ by *3x-5y-4* using suitable identity. 2010

16. Find the value of $x^3 + y^3 - 12xy + 64$, when $x + y = -4$. 2010

17. If $x + \frac{1}{x} = 5$, then find the value $x^6 + \frac{1}{x^6}$.

18. Plot the points A(-5,3), B(3,3) , C(3,0) and D(-5,0). Name the figure ABCD.
Find the ratio of areas of two parts of ABCD in the I quadrant and II quadrant.   2011
19. Plot the points A(-4,4), B(-6,0) , C(-4,-4) and D(-2,0). Name the figure ABCD and also find its area.
20. Three vertices of a rectangle PQRS are P(-3,4) ,Q(-3,-4) , R(3,-4) . Plot the points in the graph and find the co-ordinates of the missing vertex S.   2012.

Subject - Sanskrit,

Write and learn shabdaroopani of Sadhu, Matri, Pitri, Yat, Tat and Kim.
Write and Learn Dhathuroopani of Gya, Aap, Shak, Ish, and Lav in Lat, Lang and Lrit Lakar.

Subject: HISTORY(To be done in classwork copy)
1. On an outline map of France locate and label the following places associated with the French revolution.
(i) Regions not affected by the Great Fear
(ii) Areas not affected by the Great Fear
(iii) Epicentre of main Panic Movement
(iv) Bordeaux
(v) Nantes
2. On an outline political map of Europe label the bordering countries of France.
3. Compare three rights under the Declaration of the Rights of Men and Citizen of the French constitution of 1791 and the Declaration of the Rights of Women and Citizen by Olympe de Gouges

Subject: CIVICS(to be done in classwork copy)

Activity 1: Worksheet (Do in civics copy).
   1. Re-arrange the following correctly under the given governments in the table below:

   - Criticism of the government not allowed.

   - Military dictatorship.

   - Widespread corruption.

   - The President was once a political prisoner.

   - More than one party exists.

   - Government owned all industries.

   - Ruler elected by the people.

   - Missing people.

   - Ruler not elected by the people.

   - People enjoyed basic political freedoms.

- Foreign intervention in domestic affairs.

- President was killed in a coup.

Chile/Allende	Chile/Pinochet	Chile/Bachelet	Poland/Jaruzelski	Poland/Walesa
1.				
2.				
3.				
4.				
5.				

2. Match the following :

	A	Answer	B
1.	Pakistan		More weightage to indigenous voters
2.	China		Military ruler got a five year extension as President through Referendum
3.	Mexico		Women do not have right to vote
4.	Saudi Arabia		Law that limits the right to criticize the President
5.	Zimbabwe		School teachers are forced to influence parents to vote to a certain political party
6.	India		The country's Parliament (National People's Congress) has nearly 3000 elected members
7.	Fiji		Largest democracy in the world

Subject: Geography(to be done in classwork copy)

1. The latitudinal and longitudinal extents of India are the same, but there is a

difference in length in kilometer. Explain.

2. Himalayas are called young fold mountains. Explain

3. On an outline political map of India, locate and label the following:

a) Mountain Ranges: Three parallel ranges of the Himalayas, Karakoram, Ladakh, Zaskar, Vindhya, Satpura and Aravali Ranges.

b) Hills: Garo, Khasi, Jaintia, Naga hills and Mizo hills.

c) Mountain Peaks: Mount Everest, K2, Kanchenjunga, Kamet, Nanda devi, Namcha Barwa, and Anai Mudi.

d) Passes: Zojila, Shipki La, Bara Lacha la and Bomdi la.

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Subject: Economics(to be done in classwork copy)

1. Visit to a nearby shop and prepare a report on the following criterias:

- Factors of production

- Sources of capital
- Sources of labour

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Subject: SUPW

Prepare any one form the following which will be graded for SA – I
1. Paintings (glass painting, canvas painting, fabric painting etc.)

2. Flower pot

3. Flower making (organdie flower, paper flower, etc.)

4. Pen stand

5. Lamp shade

6. Embroidery work (handkerchief, table mat, table cover)

7. Stitching work (foot mat, table cover etc.)

8. Any tie and dye product (dupatta, pillow cover, bed cover, table mat etc.)

9. Paper folder

10. Wall hanging.

Subject: - Science (BIOLOGY)
Writing of practicals done in the class(in lab files)
➢ % of water absorbed by raisins(Osmosis)

➢ Study of onion cell (Onion bulb)

➢ Study of human cheek cells

Subject:Chemistry

1.Highlight the applications of pressure and evaporation in daily life.
2. List the properties and uses of dry ice .
3. Write the following practical in the lab file.
    To determine the melting point of ice and boiling point of water.

Subject: physics

Q. Answer the following questions (in your Physics class work copy)
(i) An athlete completes a circular track of radius 14m with a uniform speed of 11m/s.
    Find the time taken.
(ii) A car travels 50km/h for 30minutes, 40km/h for next 15minutes and then 60km/h for

next 1hour. Calculate the average speed of the car.

(iii) The driver of a train travelling at 40m/s applies brakes as the train enters a station.

The train slows down at the rate of $2m/s^2$. The platform is 400m long. Will the train

stop in time ?

(iv) A body moves with a velocity of 1m/s for 2sec. Its velocity then increases uniformly

for 3sec to 5m/s. It then comes to rest in 7sec with uniform decrease in velocity.

(a) Plot a velocity-time graph.

(b) From graph, find the distance travelled by the body in

i) 2 sec   ii) 6 sec   iii) last 10 sec.

(v) The hour hand of a clock is 5cm long .Find its speed of revolution. Also find the

displacement of the hour hand after 3 hours.

Subject:ENGLISH

 a) **To Read Extra Reading Book, "THREE MEN IN A BOAT" from**

Chapter 1 to 10. (The entire portion for S.A-1)

 b) **Answer the question given below in not more than 100 words.**

Q. After reading the first 10 chapters of the novel, what opinion do you form of the friends?

Give reasons for your answer.   (Task to be done in literature copy)

Subject: fganh

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