

Guru Gobind Singh Public School

Sector V/B, B.S.City

Holiday Homework

English

1. Do a survey on the causes of increasing road accidents and write an article.
2. Read a drama of William Shakespeare of your choice and prepare a synopsis to present in class.

Note: Do the HW in a file.

Mathematics

1. State and prove Mid-Point Theorem.
2. Prove that the angle in a semicircle is a right angle.
3. Prove that an isosceles triangle is always cyclic.
4. Activity & Project(In File)
 - a. To verify that the sum of the angles of a triangle is 180° .
 - b. To form a cube and find the formula for its surface area experimentally.
 - c. Chronology of Indian Mathematicians with their contributions.

Social Science

History, Civics, Economics

1. Define the following terms:
 - i. Traffic
 - ii. Summon
 - iii. Writ
 - iv. Reservations
 - v. Turnout
 - vi. Incumbent
 - vii. Constitutional Amendment
 - viii. Tryst
 - ix. Apartheid
 - x. Nomadism
 - xi. Jadidists
 - xii. Emancipation
 - xiii. Jungvolk
 - xiv. Persecution
 - xv. Usurers
2. Write short notes on:
 - i. National human rights commission
 - ii. Buffer stock
 - iii. Issue price
 - iv. The National Food Security Act, 2013
 - v. Antyodaya Anna Yojana
3. Map Work
 - i. On a political map of India mark the following:
 - Place where scientific forestry started.
 - State related to Alluri Sitaram Raju.
 - State related to Oraon.
 - Area related to Dhurwas, Bhatras and Halbas
 - ii. In the political map of Indonesia mark the following:
 - The place where the Dutch began their "Scientific Forestry."
 - The place where the skilled forest cutter Kalangs Community lives.

Geography

On the political map of India mark & Label

- Lesson 1: Size & location
 - India states with capital
 - Tropic of cancer
 - Standard Meridian
 - Southernmost, northernmost, easternmost & westernmost points of India.
 - Place situated of three seas
 - Palk strait.
- Lesson 2: Physical feature of India
 - Mountain peaks-K2, Kanchanjanga, Nanga Parbat & Anai Mundi.
 - Malwa and Chotanagpur Plateau
 - The Indian desert
- Lesson 3: Drainage
 - Rivers : Indus, Ganga, Satluj, Narmada, Krishna
 - Lakes : Chilka, Wular, Sambhar, Pulikal & Kolleru
- Lesson 4: Climate
 - Meteorological stations : Jodhpur, Mumbai, Bangalore, Chennai, Nagpur, Shilong & Leh
 - Area of highest and lowest rainfall
- Lesson 5: Natural vegetation and wildlife
 - Wild Sanctuary(All)
 - National Park(All)
 - Biosphere reserve
- Lesson 6: population
 - A state having highest and lowest density of population
 - A state having highest and lowest sex-ratio.

Note: Give in a Bamboo File.

Science

Physics

- What is the Work-energy theorem?
- A bullet of mass 20g is fired horizontally with a velocity of 150 m/s from a pistol of mass 2 kg. What is the recoil velocity of the pistol?
- The mass of earth is 6×10^{24} kg and that of moon is 7.4×10^{22} kg. If the distance between earth and the moon is 3.84×10^5 km, calculate the force exerted by earth on the moon. Given $G = 6.7 \times 10^{-11} \text{ Nm}^2/\text{kg}^2$.
- A monkey drops a coconut from the top of a tree. He hears the sound of the coconut hitting the ground 2.057 seconds after dropping it. If the monkey was 19.6 meters above the ground, what is the speed of sound in air? (Take $g = 9.8 \text{ m/s}^2$)

Chemistry

- Compare the properties of electrons, protons & neutrons.

- What are the limitations of J. J. Thomson's model of the atom?
- What are the limitations of Rutherford's model of atom?
- Describe Bohr's model of the atom.
- Summarise the rules for writing of distribution of electrons in the various shells for the first 18 elements.
- Na⁺ has completely filled K and L shells. Explain.
- If bromine atom is available in the form of , say two isotopes ${}^{79}_{35}\text{Br}$ (49.7%) and ${}^{81}_{35}\text{Br}$ (50.3%). Calculate the average atomic mass of bromine atom.
- The average atomic mass of a sample of an element X is 16.2 u. What are the percentage of isotopes ${}^{16}_8\text{X}$ and ${}^{18}_8\text{X}$ in the sample?
- Complete the following table

Atomic Number	Mass Number	No. of Neutrons	No. of Protons	No. of Electron	No of atomic species
9	-	10	-	-	-
16	32	-	-	-	Sulphur
-	24	-	12	-	-
-	2	-	1	-	-
-	1	0	1	0	-

Note: Work has to be done in project file.

Biology

- Select two animals from each phylum, write four identifying characters for each of them and draw the labelled diagram for each.
- Select any five common diseases from which people are suffering in your locality and write a note on the basis of following points about the diseases
 - Causal organism
 - Mode of communication
 - Symptoms
 - Preventive measures/ vaccination
 - Treatment

Note: Work has to be done in project file.

Foundation of Information Technology

- Write steps to type an Informal letter (Page No.:3.2).
- Write the steps of making a poster (Page No.:3.3). Explain the features used to making poster.
- Chapter: Managing Slides. (Page No.:2.48 to 2.50). Create a new presentation (Write Steps).
- Chapter: Function and charts in calc.(Draw the worksheet and give answer)
Page No.:2.144, Q.No-10
Page No.:2.145, Q.No-11, 12, 13

हिन्दी

1.दहेज प्रथा के विरुद्ध गीता और सौम्या के बीच संवाद लिखें।

2.उपमा अलंकार, उत्प्रेक्षा अलंकार, रूपक अलंकार एवं यमक अलंकार के चार-चार उदाहरण लिखें।

3.'दहेज लेना व देना दोनो कानूनन अपराध है ' फिर भी इसके प्रचलन में वृद्धि हो रही है। आप इसे हतोत्साहित करने के क्रम में क्या कदम उठा सकते हैं? डेढ़ सौ शब्दों में उत्तर दे।

नोट :- सभी कार्य व्याकरण कॉपी में ही करे।

जमा करने की तिथि :- 05.01.2018

संस्कृत

1.कमपि एकं अपठितं अनुच्छेदं पठित्वा प्रश्नान् उत्तरत

2.कमपि एकं पत्रं लिखित्वा मञ्जूषायाः सहायतया रिक्तस्थानानि पूरयत ।

3.कमपि द्वयं चित्रं आधृत्य शब्दसूची – सहायतया संस्कृते पञ्च वाक्यानि लिखत ।

4.वर्णानाम् उच्चारणस्थानम् तालिकां सहायतया लिखत ।

5.अधोलिखितानां पदानां वर्णविन्यासं कुरुत

क. ग्रामम् ख.विद्यालयः ग.दार्शनिकः

घ.श्रीमती ड.ज्ञानी च.ग्रन्थः

छ.चञ्चलम् ज.क्षत्रियः झ.वृष्टिःञ.कृषकः

6.उपपदविभक्ति नियमाः (द्वितीयाविभक्ति – सप्तमी विभक्ति पर्यन्तम्) वाक्यानि रचनाय लिखत ।

7.अधोलिखितानां शब्दरूपाणि स्मरणं कृत्वा लिखत—

राजन् भवत् आत्मन्, विद्वस्, गच्छत् ।

8.संख्याज्ञानम्—

संख्यावाची शब्दानाम् (01–100) पर्यन्तम् संस्कृतेन लिखत ।

नोट – सर्वेषां प्रश्नानाम् उत्तराणि अन्यत्र उत्तरपुस्तिकायां कुरुत । (अलग पतली कॉपी में बनाएँ)।