Delhi Public Elementary School
Session 2020-2023
CLASS: X

SUMMER HOLIDAY HOMEWORK

ENGLISH

1. You have bought a washing machine from Selectronics City, Gurgaon on 22nd Feb 2019 with bill no.CC45B8-16 with 6years of onsite warranty. Unfortunately, the 3.5ton machine has starting malfunctioning. Even after your repeated calls to the customer care,you have not been given any service by the company. Write a letter of complaint to the Sales Manager, Selectronic City, Gurgaon-01.You are Nitin Sharma,1/D,Kailash Nagar, Palampur.

2. Write a letter to M/s Laxmi Stationary Mart,Chawri Bazar Delhi, asking them to send their rates and terms of supply of stationary items. You are R.K.Mittal, Office Superintendent, Bundelkhand Public School, Jhansi. Give the list of items too.**(words limit 125-150 words)**

3. **Change the following as directed.**
   a. A cold wind blows. (Past Continuous Tense)
   b. I forget her name. (Present Perfect Tense)
   c. The peon rang the bell. (Future Perfect Tense)
   d. We were playing football. (Simple Past Tense)
   e. He was waiting for an hour. (Past Perfect Continuous Tense)

4-Fill in the blanks with appropriate modal auxiliary verbs.
   (a) My grandmother is eighty five, but she.............still read write without glasses.

   (Ability)(Can/could/may)

   (b)_____you help me with the housework, please? (Polite request)(Could/will/should)

   (c) You _____not lose any more weight. You are already slim. (Necessity)(may/need/should)

   (d) We_____make the first move.(Prohibition)(must not/will not/cannot)

   (e) I..........get you a shawl from Kashmir.(Promise)(will/would/can)

5- Write Present Participle, Past and Past Participle forms of following verbs:
   Bear, teach, put, broadcast, deal, feed, fly, hide, kneel, learn.

Note: - Present the holiday assignment in a folder, using A4 size sheets

HINDI
1. निम्नलिखित विषयों में से किसी एक पर अनुच्छेद लिखिए।
   1. डिग्री के साथ–साथ सॉफ़्ट– स्किल भी जरुरी।
   2. अवांछित प्रसारण और मूकदर्शक
   3. करत–करत अभ्यास के जड़मति होत सुजान।
   4. पर्यावरण का असंतुलन।

2. निम्नलिखित विषयों में से किसी एक पर संवाद लिखिए।

1. सड़कों पर फैली गंदगी के प्रति चिंता व्यक्त करते हुए पर अपने मित्र के साथ संवाद।
2. ग्यारहवीं कक्षा में विषयों के चयन से संबंधित माँ व पुत्री के के बीच संवाद।
3. परीक्षा में आपकी शानदार उपलब्धियों पर आपके और पिताजी के बीच संवाद।

3. निम्नलिखित विषयों में से किसी एक पर विज्ञापन तैयार कीजिए।

1. मारुति कार
2. हिमालय बाँसमती चावल
3. अमूल चॉकलेट
4. 'बड़े भाई साहब' कहानी का सारांश अपने शब्दों में लिखिए।
5. 'बड़े भाई साहब' कहानी में आए मुहावरे का अर्थ लिखकर वाक्यों में प्रयोग कीजिए। (कोई 10)

MATHS

Q.1. The LCM and HCF of two numbers are 240 and 12 respectively. If one of the numbers is 60, then find the other number.

Q.2. Without actually performing the long-division, state $\frac{121}{2^3 \times 3^5 \times 7^5}$ will have a terminating or non- terminating repeating decimal expansion.

Q.3. Write whether the rational number $\frac{17 \times 3}{625 \times 9}$ will have a terminating decimal expansion or a non-terminating repeating decimal expansion.

Q.4. Show that every positive even integer is of the form 2q and that of every positive odd integer is of the form 2q+1 for some integer q.

Q.5. Show that every positive odd integer is of the form 4q+1 or 4q +3 for some integer q.

Q.6. Use EDL to show that the square of any positive integer is either of the form 3m or 3m+1 for some integer m.

Q.7. Use EDL to show that the cube of any positive integer is either of the form 9q or 9q+1 or 9q+8 for some integer q.

Q.8. Show that one and only one of n, n + 2 and n + 4 is divisible by 3.

Q.9. Using Euclid's division algorithm, find the HCF of 56, 96 and 404.

Q.10. Three pieces of timber 42m, 49m and 63m long have to be divided into planks of same length. What is the greatest possible length of each plank?

Q.11. Find the least number of square tiles required to pave the ceiling of a room 15m 17cm and 9m 2cm broad.

Q.12. Find the greatest possible length which can be used to measure exactly the lengths 7m, 3m 85cm and 12m 95cm.

SCIENCE- Chemistry

Worksheet on Balancing Chemical Equations

1. $Ca + O_2 \longrightarrow CaO$

2. $H_2 + Cl_2 \longrightarrow HCl$

3. $P_4 + S_8 \longrightarrow P_2S_5$

4. $CO + O_2 \longrightarrow CO_2$

5. $C_2H_6 + O_2 \longrightarrow CO_2 + H_2O$

6. $C_2H_5OH + O_2 \longrightarrow CO_2 + H_2O$

7. $FeS_2 + O_2 \longrightarrow Fe_2O_3 + SO_2$

8. $P_4 + O_3 \longrightarrow P_2O_5$

9. $NH_3 + O_2 \longrightarrow N_2O_3 + H_2O$

10. $Si_5H_{11} + Br_2 \longrightarrow Si + HBr$

11. $FeCl_3 + NaOH \longrightarrow Fe(OH)_3 + NaCl$

12. $Fe + H_2O \longrightarrow Fe_2O_3 + H_2$

13. $C_{10}H_{22} + Cl_2 \longrightarrow C + HCl$

14. $FeCl_3 + Na_2SO_4 \longrightarrow Fe_2(SO4)_3 + NaCl$

15. $Al + HNO_3 \longrightarrow Al(NO_3)_3 + H_2$

16. $K + H_2O \longrightarrow KOH + H_2$

17. $C_3H_8 + S_8 \longrightarrow CS_2 + H_2S$

18. $MgCl_2 + Al(OH)_3 \longrightarrow AlCl_3 + Mg(OH)_2$

19. $ZnFeS_2 + O_2 \longrightarrow Zn + FeO + SO_2$

20. $P_4O_{10} + H_2O \longrightarrow H_3PO_4$

21. $KClO_3 \longrightarrow KCl + KClO_4$

22. $Mg_3N_2 + H_2O \longrightarrow Mg(OH)_2 + NH_3$

WORD EQUATIONS

Name _____

Write and balance the following chemical equations.

1. Hydrogen plus oxygen yield water.

2. Nitrogen plus hydrogen yield ammonia.

3. Aluminum bromide plus chlorine yield aluminum chloride and bromine.

4. Hydrochloric acid plus sodium hydroxide yield sodium chloride plus water.

5. Iron plus lead (II) sulfate react forming iron (II) sulfate plus lead.

6. Potassium chlorate when heated produces potassium chloride plus oxygen gas.

7. Sulfuric acid decomposes to form sulfur trioxide gas plus water.

8. Sodium oxide combines with water to make sodium hydroxide.

9. Potassium iodide reacts with bromine forming potassium bromide plus iodine.

10. Sodium phosphate reacts with calcium nitrate to produce sodium nitrate plus calcium phosphate.

11. Zinc reacts with iron (III) chloride yielding zinc chloride plus iron precipitate.

12. Ammonium carbonate and magnesium sulfate react to yield ammonium sulfate plus magnesium carbonate.

13. Phosphoric acid plus calcium hydroxide react forming solid calcium phosphate plus water.

14. Aluminum plus oxygen gas form aluminum oxide under certain conditions.

15. Nitrogen gas plus oxygen gas react and form dinitrogen pentoxide.

SCIENCE - Biology

Project: Make a file of following diagrams
- (A) Structure of leaf (TS)
- (B) Open and Close Stomata
- (C) Longitudinal Section of Flower.
- (D) Human digestive system
- (E) Excretory system
- (F) Nephron
- (G) Male and Female Reproductive System
- (H) Human Heart

Note: Diagram should be clear and well labelled. Draw all the diagrams
   in A4 Size paper.

SCIENCE - Physics

Q.1. Write five differences b/w reflection and refraction.

Q.2. Write about the various types of convex and concave lenses.

Q.3. Solve:
(a) An object is placed at a distance of 40 cm from a concave lens of focal length 20cm.
Find the distance of image from the lens.
List the characteristics of image formed by lens (nature, position and size)
Draw ray diagram to justify your answer.

Q.4 Draw a ray diagram and apply sign convection to determine the focal length of a spherical mirror which form a three times magnified real image of an object placed at 16 cm in front of it.

Q.5. Show the refraction through a
(a) Glass prism   (b) Glass slab

SST

Every student has to compulsorily undertake one project

Consumer awareness

        Or

Social issues

        Or

Sustainable development

S.no	Aspects	Marks
(a)	Content, accuracy, originally	2
(b)	Presentation and creativity	2
(c)	Viva voce	1

Poster making

Save forest, save water, and consumer right, social issues, save earth

Learn topic history one & geography 1.

COMPUTER

Q.1. Complete all the assessments given in the **UNIT - 1** of your computer book.

Q.2. If you want to make a greeting card for your parent's anniversary in Microsoft Word. Suggest the suitable options to make a beautiful card.

Q.3. Create the result sheet of your Final examination in Microsoft Excel. Explain all the formulas that you used during the creation of result sheet.