Q1. Boys & Girls are equal. This has been reiterated time and again but still there are some people in our society who discriminate and differentiate. Write an article expressing your views to show that education along with edification is the need of the hour. Write your views on a chart in about 150 words and paste/sketch relevant pictures to show gender equality.

Q2. Despite being a woman with special needs, Helen Keller overcame all obstacles to become empowered. Briefly write about her courage, a woman of strength and substance who emancipated herself. Write this in your language notebooks in about 75 to 100 words. Remember to paste a picture of Helen Keller.

Q3. Complete Unit 12 - Active and Passive Voice
Unit 13 - Reported Speech
Unit 14 - Preposition
In your workbook.
प्र01. निम्नलिखित विषयों पर 80-100 शब्दों में अनुच्छेद किरितें -
   i) मेंमेरी रेल : महानगरीय जीवन का सुखद सपना
   ii) जीवन में व्याख्यान का महत्व
   iii) मेंसराइ की मार

प्र02. अपने क्षेत्र में एक सार्वजनिक उद्योक्ताओं रवैयों वाचनालय
      स्वयं शिक्षकों को प्रदर्शन करते हुए शिक्षा - विभाग से सार्वजनिक
      के पत्र लिखिता।

प्र03. 'संस्कृति' पुस्तक के पाठों का आदरण कैसे रवैयों के उत्तर पुस्तक में ही दैर्घ्य रखिता कैसे।

प्र04. 'हिंदी साहित्य के निर्माण में महिलाओं का योगदान' विषय
      पर सुंदर वाट्टे तंबारा कैसे। (स्थल हिंदी की कवियत्रियों
      स्वयं लेखिकाओं तथा उनकी रचनाओं के विषय में लिखिता)

नोट: प्रश्न 1) और प्रश्न 2) एक अलग पुस्तिका में करें।
CLASS – X  
SUBJECT – MATHS

1. Project
   - Design and build a model of a house with Geometrical figures.
   - Mathematical designs and patterns
   - Surface area and volume of a combination of solids
   - Application of mensuration in day to day life
   - Magic squares
   - Indian Mathematicians and their contribution

2. Charts
   Make a chart on
   - Sports or cricket graphs
   - History of Pie
   - History of Pythagoras Theorem
   - On Probability
   - Cross word puzzle

3. Maths assignment on linear equation and Real Numbers

CLASS – X  
SUBJECT – MATHS
ASSIGNMENT - LINEAR EQUATION

1. Solve for x and y:
   \[ 12x+y-8=0 \]
   \[ 2x+3y+10=0 \]

2. Find the value of 'k' such that the linear equations \[ 4x+6y-1=0 \] and \[ 2x+10y-7=0 \] represent a pair of parallel lines.

3. Draw the graph of linear equation \[ 4x-y-8=0 \] and \[ 2x-3y+6=0 \]. Using the graph, find their point of intersection.

4. Solve for x and y: \[ 37x+43y=123 \; ; \; 43x+37y=117 \]

5. How many solutions are possible for the pair of linear equation \[ 6x+4y-10=0 \; ; \; 2x-3y-7=0 \]?

6. Find the value of 'k' such that the pair of lines represented by \[ 6x-3y+10=0 \; ; \; 2x+10y+9=0 \] have no solution.

7. (a) Solve for x and y: \[ xy-6y+6=0 \; ; \; 3xy-5y-8=0 \]
   (b) Solve for x and y: \[ bx+ay-2ab=0 \; ; \; ax-by-a^2+b^2=0 \]

8. Solve graphically: \[ 4x-3y+4=0 \]
   \[ 4x+3y-20=0 \]

9. Nine times a two digit natural number is the same as twice the number obtained by interchanging the digits of the number. If one digit of the number exceeds the other digit by 7, find the number.

10. Do the lines representing the linear equation \[ 2x-y-3=0 \] and \[ 4x-y-5=0 \] intersect at a point?

**Answers**
1. \( x=1, \; y=-4 \)
2. \( k=3 \)
3. \( x=3, \; y=4 \)
4. \( x=1, \; y=2 \)
5. one
6. \( k=-1 \)
7. (a) \( x=3, \; y=2 \), (b) \( x=a, \; y=b \)
8. \( x=2, \; y=4 \)
9. 18
10. Yes
1. Is the number $\frac{79}{22.33}$ has terminating decimal expansion?

2. Prove that (a) $\sqrt{7}$ is irrational
   (b) $5 + \sqrt{2}$ is irrational

3. Use Euclid’s division algorithm to find the HCF of 9648 and 10224.

4. Is the number $7 \times 5 \times 3 \times 2 + 3$ is a composite number? Justify your answer.

5. Identify A, B, C in the following factor tree.

![Factor Tree]

6. Is the number $6^n$ ends with digit 0 for any natural number ‘n’? Justify your answer.

7. If HCF (105, 120) = 15, find the LCM (105, 120).

8. Find the largest number that will divide 398, 436, 542 leaving remainders 7, 11 and 15 respectively.

9. Show that one and only one out of $n$, $n+3$, $n+6$, $n+9$ ($n \in \mathbb{N}$) is divisible by 4.

10. Let the HCF of 210 and 55 be expressed as $210 \times 5 + 55K$. Find ‘K’

**Answer**

(1) No  
(2) Yes  
(3) 144  
(4) Yes  
(5) A=2, B=25, C=5  
(6) No  
(7) 840  
(8) 17  
(9)  
(10) $r=-19$
CLASS – X
SUBJECT – PHYSICS

1. What is an electric circuit?
2. Define electric current. What is the conventional direction of electric current?
3. How we measure electric current in an electric circuit?
4. Define electric potential. How is it measured in a circuit?
5. How much energy is required to move a charge of 5c between two points having a potential difference 10V?
6. A current of 1.2 A is drawn from a cell for 2 minutes. Calculate the charge drawn from the cell.
7. Draw an electric circuit having a battery of 6v, two resistors 2 Ω & 3 Ω connected with a key & an ammeter?
8. By using Ohm’s law, define one Ohm.
9. The potential difference across a resistor of resistance 6 Ω is 150 v. Calculate the current passing through the resistor.
10. The wire of a heater has a resistance of 70 Ω. If a current of 5 A is passing through it then calculate the potential difference across the wire.
11. Why does a conductor heats up when a current is flowing through it? Explain.
12. An electric bulb is rated as 220 v, 100 W. What is the power consumed when it is operated on 200 v?
Q1. Write and balance the following chemical equation:
   a) nitric acid reacts with calcium hydroxide and forms calcium nitrate and water
   b) sodium bicarbonate decomposes to give sodium carbonate, carbon dioxide and water
   c) sodium chloride reacts with water to give sodium hydroxide, hydrogen gas and chlorine molecule
   d) aluminium metal reacts with sulphuric acid to give aluminium sulphate and hydrogen gas
   e) phosphorus pentoxide reacts with water to give phosphoric acid

Q2. What change in colour is observed when white silver chloride is left exposed to sunlight? State the type of chemical reaction in this change. Also write the equation.

Q3. Solid CaO was taken in a container and water was added slowly to it
   a) State the two observations made in the experiment.
   b) Write the name and chemical formula of the product formed.

Q4. What changes in the colour of iron nails and copper sulphate solutions do you observe after keeping the iron nails dipped in copper sulphate solution for about 30 minutes?

Q5. What is corrosion? Give three examples of corrosion.

Q6. What is rancidity? Write different methods of preventing rancidity.

Q7. \( \text{PbO}_2 + 4\text{HCl} \rightarrow \text{PbCl}_2 + \text{Cl}_2 + 2\text{H}_2\text{O} \)
   Identify the oxidizing agent and reducing agents

Q8. What is oxidation reaction? Give an example of oxidation reaction. Is oxidation an exothermic or endothermic reaction?

Q9. On what basis is a chemical equation balanced?
CLASS – X
BIOLOGY - TRANSPORTATION IN HUMANS

Q1. What is the role of blood in transportation of materials in our body?
Q2. Draw and explain a well labeled diagram of section of human heart.
Q3. How does the exchange of oxygen and carbon dioxide take place in human body?
Q4. Justify the difference in the structure of heart of mammals, birds, reptiles, amphibians and fishes?
Q5. What is blood pressure? What is “Systolic” and “Diastolic” pressure?
Q6. What is the role of platelets in our blood? Why is clotting of blood very important?
Q7. What is the composition of Lymph? What is its function?
Q8. What is the difference between blood plasma and lymph?
Q9. Given reason for the following:
   (a) The blood pressure is much greater in arteries than in veins.
   (b) The walls of ventricles are thicker
   (c) The veins have valves
   (d) Valves are present between auricles and ventricles.
   (e) Right and left side of heart are separated by a wall (Septum)
Q10. What is Lymph? What is its role?

TRANSPORTATION IN PLANTS

Q1. Why is proper system of transport essential in plants?
Q2. Why do plants have low energy needs as compared to animals?
Q3. Differentiate between Transpiration and Translocation?
Q4. How do roots absorb water? Write the factors which help to do so?
Q5. What are the advantages of transpiration?
Q6. Differentiate between Xylem and Phloem?

EXCRETION

Q1. What do you mean by Excretion? Why is it essential in living organism?
Q2. Draw a well labeled diagram of excretory system in humans?
Q3. How is urine produced? What is its composition?
Q4. Name the basic filtration unit in the kidney? Draw its labeled diagram and explain its function?
Q5. How can we control the urge to urinate?
Q6. What are the functions of Kidneys?
Q7. What happens if the kidney fail to function? What are the causes of kidney failure? How can it cured?
Q8. What is Dialysis? How is it done?
Q9. Name the excretory products in plants? How are they excreted?
CLASS – X
SOCIAL SCIENCE- Disaster Management

(To be done in Pairs. Part of FA₁ Assignment)

Make a project on any one of the following topics.

Project 1: Preparation of Models of Disaster Resilient Structures.
- Make layouts of models based on structural layouts of models based on structural improvement in buildings in a rural/urban community in coastal areas prone to floods/cyclones or in areas prone to earthquakes/landslides. Show the special features of the buildings and indicate the early warning system that could be best used in that community.

Project 2: Communication facilities for Disaster Management
- Choose any one method of communication from various means of communication like radio/satellite/television/Ham radio which are used by Government departments such as Indian Meteorological Department to disseminate information. Find out how the information is disseminated by them at various levels during disasters.
  - Prepare a report.
  - Case studies can also be collected to make the project more interesting.

CLASS – X
SUBJECT - SOCIAL SCIENCE

History and Political Science (To be done in Pairs. Part of FA₁ Assignment)

1. Carry out a survey by enquiring 10 persons from different walks of life (such as shopkeepers, senior citizens, students, housewives etc) in your locality on the ‘hazards’ prevalent and preventive measures they have taken or would like to take to reduce the impact.

2. Prepare a survey report highlighting the areas where awareness is required and the local resources available in the locality to create awareness.
CLASS – X
SUBJECT – FRENCH

Watch two films and write their stories in French.

I) Listen and download some French songs in a CD.

II) Children,

This year our school has taken one of the most important issues of these days i.e. “Gender Sensitization”. It refers to modification of behavior by raising awareness about gender equality concerns. Gandhiji once said, “India will obtain full freedom on the day women can walk safely at night”. Very true. Let us all resolve and work to transform our country into a safe and dignified place for all women and men.

Let our school lead the Nation in achieving Gandhi’s ‘full freedom’. A nation wherein every woman walks at any time not only safely but without any shame, indignity and disrespect.

Let us through our deeds and behavior display zero tolerance, violence in any form against women.

Let us resolve that we shall indeed create an India free of fear, violence and discrimination against girl child. For this event you need to make some charts/models/collage. Topics are written in front of your name.

1. ANJANDEEP KAUR • Make a chart/model/collage on Paques
2. ANMOL MALHOTRA • Make a chart/model/collage on Noel
3. ANSHUL MARWAH • Make a chart/model/collage on Avignon
4. ARPIT BARMA • Make a chart/model/collage on Noel
5. ARPANAH KOHLI • Make a chart/model/collage on Noel
6. AVNEET KAUR KHURANA • Make a chart/model/collage on logo of palme d'Or
7. BHASKAR MAHNA • Make a chart/model/collage on Noel
8. CHIAVHI KATHURIA • Make a chart/model/collage on fete de la musique
9. CHRISH WALIA • Make a chart/model/collage on la fete Nationale
10. DIVESH BHATIA • Make a chart/model/collage on Jour de l’an (La Saint-Sylvestre)
11. GARIMA TALWAR • Make a chart/model/collage on fete du travail
12. ISHITA DHALWAN • Make a chart/model/collage on buche de Noel
13. KARTIK KEDAWAT • Make a chart/model/collage on Easter
14. KRITIKA CHOUDHARY • Make a chart/model/collage on une francaise
15. MANSI CHOPRA • Make a chart/model/collage on la buche de Noel
16. MANSI TANEJA • Make a chart/model/collage on Paques
17. MISHI MAHAJAN • Make a chart/model/collage on Mother Teressa
18. MUSKAN AGGARWAL • Make a chart/model/collage on Marie Curie
19. NAMAN WADHERA • Make a chart/model/collage on Tour de France
20. NEHA LILANI • Make a chart/model/collage on Eminent French women
21. PALAK JHINGAN • Make a chart/model/collage on Mardi Gras
22. PRATHA BHATIA • Make a chart/model/collage on Mother Teresa
23. RISHABH KHOSLA • Make a chart/model/collage on Tour de France
24. SALONI SOORMA • Make a chart/model/collage on Paques
25. SAROVI KAUR KOCHAR • Make a chart/model/collage on Dame Toussard
26. SHRADDA KUMAR • Make a chart/model/collage on Jour de l’an (La Saint-Sylvestre)
27. SHUBHANKAR SHARMA • Make a chart/model/collage on Easter women
28. SIDDHARTH VERMA • Make a chart/model/collage on Tour de France
29. SYEDA ABYAZ • Make a chart/model/collage on Joan of Arc
30. TEJASWI CHODHARY • Make a chart/model/collage on Joan of Arc
31. VIPASHAYANA TANWAR • Make a project on women
32. VISHAL DHAWAN • Make a chart/model/collage on daces of France
33. VISHESH GUPTA • Make a chart/model/collage on Easter 'Women'
Q. Write HTML code to generate the following output (Refer points and figure)

Note the following points while generating the webpage:

- Title of the page is “Movies”
- Background color of the page is green, left margin 100, top margin 150
- Heading MY MOVIES PAGE should be in largest size
- A Picture with name “logo.bmp” should be displayed
- Lists should be displayed as shown in the figure. Font color of first list should be blue and Font color of second list should be red
- Two horizontal lines should be displayed in the end

<table>
<thead>
<tr>
<th>Movies</th>
<th>MY MOVIES PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><img src="logo.bmp" alt="Logo" /></td>
</tr>
</tbody>
</table>

**MOVIE LIST**

- Jalpari
- Gippy
- Taare Zameen Par

1. Titanic
2. Ten Commandments
3. Dolphin

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**COMPUTER SCIENCE (CLASS X)**

MAKE A CHART/WEBSITE/MOVIE/PRESENTATION ON GIVEN TOPIC

NOTE: SUBMISSION OF WEBSITE/MOVIE/PRESENTATION WILL BE TAKEN ONLY IN CD

**CLASS X A**

PROPER USE OF FACEBOOK

(Beware of giving personal details and befriending strangers)
'Facebook Murder'
- Two arrested for killing Facebook 'friend' in Jaipur
Press Trust of India | Monday March 11, 2013
Two men were today arrested for allegedly abducting and killing an acquaintance they befriended on social networking website Facebook for ransom.

Apache OpenOffice (AOO) is an open-source office productivity software suite. It descends from OpenOffice.org (OOo), which was an open-sourced version of the earlier StarOffice. OpenOffice contains a word processor (Writer), a spreadsheet (Calc), a presentation application (Impress), a drawing application (Draw), a formula editor (Math), and a database management application (Base)

ADVANTAGES OF USING SOLAR ENERGY
Solar panels (PV)
Generate cheap, green electricity from sunlight
Solar panel electricity systems, also known as solar photovoltaics (PV), capture the sun's energy using photovoltaic cells. These cells don't need direct sunlight to work – they can still generate some electricity on a cloudy day. The cells convert the sunlight into electricity, which can be used to run household appliances and lighting.
The benefits of solar electricity
How do solar panel (PV) cells work?
Costs, savings and maintenance
Android is a Linux-based operating system designed primarily for touchscreen mobile devices such as smartphones and tablet computers. Initially developed by Android, Inc., which Google backed financially and later bought in 2005, Android was unveiled in 2007 along with the founding of the Open Handset Alliance: a consortium of hardware, software, and telecommunication companies devoted to advancing open standards for mobile devices. The first Android-powered phone was sold in October 2008. Android is open source and Google releases the code under the Apache License. This open source code and permissive licensing allows the software to be freely modified and distributed by device manufacturers, wireless carriers and enthusiast developers.

Twitter is an online social networking service and microblogging service that enables its users to send and read text-based messages of up to 140 characters, known as "tweets". Twitter was created in March 2006 by Jack Dorsey and by July, the social networking site was launched. The service rapidly gained worldwide popularity, with over 500 million registered users as of 2012, generating over 340 million tweets daily and handling over 1.6 billion search queries per day. Since its launch, Twitter has become one of the ten most visited websites on the Internet, and has been described as “the SMS of the Internet.” Unregistered users can read tweets, while registered users can post tweets through the website interface, SMS, or a range of apps for mobile devices.

A blog (a portmanteau of the term web log) is a discussion or informational site published on the World Wide Web and consisting of discrete entries ("posts") typically displayed in reverse chronological order (the most recent post appears first). Until 2009 blogs were usually the work of a single individual, occasionally of a small group, and often covered a single subject. More recently "multi-author blogs" (MABs) have developed, with posts written by large numbers of authors and professionally edited. MABs from newspapers, other media outlets, universities, think tanks, interest groups and similar institutions account for an increasing quantity of blog traffic.
The rise of Twitter and other "microblogging" systems helps integrate MABs and single-author blogs into societal newstreams. Blog can also be used as a verb, meaning to maintain or add content to a blog.

CLASS – X -A, X-D (ASSIGNMENT) 2013-14
SUBJECT - COMPUTER

Write a html code to generate a web page in the format show below.

Special Note:
II) Title of page should be “Pickloo Garments”
III) Background colour of page should be “BLUE”
IV) Font Face of the page should be “ARIAL”
V) Logo used on the page on the top corner should be from a file “pgilogo.gif”
VI) Text colour of main heading should be “YELLOW”
VII) Pages linked with
   Saries as “sari.html”
   Salwar Suits as “salwar.html”
   T-Shirt:Ladies as “ladies.html”
   T-Shirts:Gents as “gents.html”
   Trousers:Ladies as “ladiesT.html”
   Trousers:Gents as “gentsT.html”
   Contact Us as “contact.html”

7. “T-Shirt” and “Trousers” should be displayed in “WHITE” colour
8. Link Colour should be “YELLOW” Visited Link colour should be “GREEN” and Active Link colour should be “BLACK”
9. Bottom Message should be with size as “2”

NOTE :- TO BE SUBMITTED IN THE COMPUTER NOTEBOOKS ONLY
Main Topic – Conservation of Energy
Sub Topic – Solar energy, wind energy, air conditioning conservation, bathroom water conservation, computer energy conservation, cooking energy conservation, electric energy conservation, lighting conservation, laundry energy conservation, biofuel geothermal energy, biodiesel plant, any other
(1) भारतस्य कृष्ण राजेश्व मोहिनीनाम सर्वनाम पुरुषे भावों नृपवतारा उदयित्ता राज्याण्याम् नामानि लिखित।

(11) स्वयं ती: विषमेव परचाकामाणि लिखित।

(4) त्वन्हि दिने सुबड़कां कानी कान्तमाणि स्वीत। परा वाक्यानि लिखित।

(5) अतः भारतस्य राजस्थानि: कः? तद्भ विषमेव संस्कृतेन परा वाक्यानि लिखित।

(6) स्वयं हर्षि यथो जने: जने: सर्वां वालि कृत्यं तेस्व नमा (अन्तः स्वामिः): विषमेव परचाकामाणि लिखित।