NIMAWAT PUBLIC SCHOOL
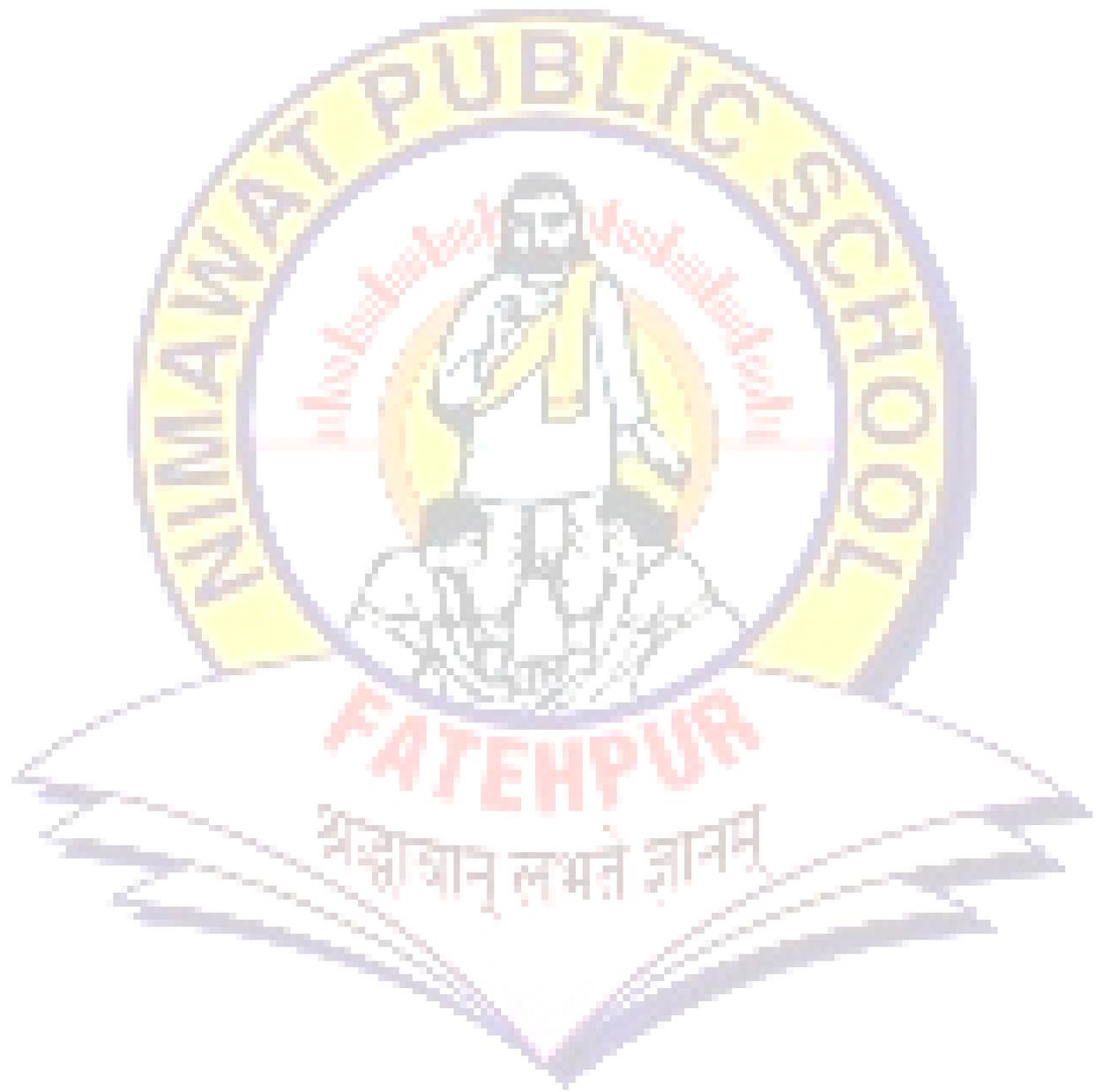## FATEHPUR SHEKHAWATI
DIWALI HOME WORK 2018-19 FOR CLASS-IV

1	**English**	1. Write any 10 Opposite words and any 10 Singular Plurals. 2. Write a short paragraph on how you spent your Diwali Vacation?
2	**Hindi**	1.आप अपना जन्म दिन कब और कैसे मनाते हो । एक पृष्ठ में लिखो । 2.बीस पर्यायवाची शब्द और बीस विलोम शब्द लिखो । 3.एक दिन की छुट्टी के लिए अपने प्रधानाध्यापक को एक प्रार्थना पत्र लिखो ।
3	**Mathematics**	1) Learn and write the multiplication tables from 2 to 20. 2) Learn and write Roman numerals upto 100.
4	**EVS**	Paste 5 pictures of Means of Transport and write 3 lines on each Transport.
5	**Computer**	Define all five generations of the computer with examples and images.

6	**French**	1. Translate the following "Greetings" into French.
		   Good morning, Good afternoon, Good evening, Good night, Thank you.
		2. Write & Learn the verb "to speak" (parler) in French. Page: 67
		3. Translate the following "Discipline sentences" into French.
		   (i) Thank you Madam (ii) Revise well. (iii) Raise your hands.
		   (iv) Study well. (v) Read the lesson. (vi) May, I drink water.
		4. Write any 20 French vocabulary words of your choice from your book & Translate into English.

NIMAWAT PUBLIC SCHOOL

FATEHPUR SHEKHAWATI
DIWALI HOME WORK 2018-19 FOR CLASS-V

1	**English**	1. Write any 10 Degrees of Comparison and any 10 Singular Plurals. 2. Write a short paragraph on the Diwali Festival.
2	**Hindi**	1.दीपावली के त्योहार के बारे में एक पृष्ठ में लिखो । 2.बीस पर्यायवाची शब्द और बीस विलोम शब्द लिखा व याद करना है । 3.कोई बीस मुहावरे लिखो व याद करो ।
3	**Mathematics**	1) Learn and write the multiplication tables from 2 to 20. 2) Learn and write the Roman numerals upto 150.
4	**EVS**	Write the various uses of Petroleum in our daily life. How can we save Petroleum for future use?
5	**Computer**	Define Primary and Secondary Memory of the computers with examples and their images.

6	**French**	1. Translate the following "Greetings" into French.
		   Good morning, Good afternoon, Good evening, Good night, Thank you.
		2. Write & Learn the verb "to speak" (parler) in French. Page: 67
		3. Translate the following "Discipline sentences" into French.
		   (i) Thank you Madam (ii) Revise well. (iii) Raise your hands.
		   (iv) Study well. (v) Read the lesson. (vi) May, I drink water.
		4. Write any 20 French vocabulary words of your choice from your book & Translate into English.

1	**English**	1. Define these "Parts of speech with example. (you can take help of your Grammar book) (a) Noun (b) Pronoun (c) Adjective (d) Adverb (e) Conjunction. 2. Write a Paragraph on the topic "How you have spent the Diwali vacations". 3. Read English Newspaper regularly during your vacations and note down five words everyday with meanings. 4. Write 5 pages of beautiful "Print handwriting".
2	**Hindi**	1. प्रतिदिन एक पेज सुलेख लिखोः– (15 पेज)। 2. 'दीपों का त्योहार दीपावली' निबंध लिखो। 3. अवकाश के दिनों में आपकी दिनचर्या कैसी थी विस्तार से लिखो।
3	**Mathematics**	1. Learn and write squares of Natural Numbers up to 30. 2. Learn and write the multiplication tables from 2 to 25.
4	**Science**	What are Habitats? Write a short note on different types of Habitat, paste essential pictures.
5	**Social Science**	On the outline Map of the World mark the following :-- Europe, Asia, Antarctica, South America, Australia, Indian Ocean, Pacific Ocean, Atlantic Ocean, North America, Africa, Arctic Ocean.
6	**Computer**	Write about the Generations of Computers; Define all Generations with their examples and images.
7	**Sanskrit**	1.श्री लक्ष्मी जी की आरती लिखो। 2.बालक शब्द रूपाणि लिखतु एवं कण्ठस्थ करोतु । 3.चल धातु त्रयः लकाराः लिखतु एवं कण्ठस्थ करोतु 4.पंच श्लोकाः लिखतु एवं कण्ठस्थ करोतु स्वपाठ्य पुस्तकेषु।
8	**French**	1. Write down the table of 5 & 6 in French. (You can take help of your text book) 2. Conjugate the verbs "To go" (aller) & "to have" (avoir) in French. 3. What do you know about "Eiffel Tower". Explain in English & French. 4. Prepare a list of Nationality words in English & French. (Mentioned on Page - 51). 5. Learn & write the vocabulary words of Lesson 6 in English & French. Page: 56.

1	**English**	1- Learn and write answers of any three questions from Honeycomb - Chapter No. 1 (Lead, Kindly Light) & Chapter No.2 (Faith is a Powerful tool for Healing) from Mirror of Values. 2- Write the definition of Sentence, Noun, Pronoun, Adjective and Adverb with examples and also write their kinds. 3- Write an essay on 'Diwali' in about 150 words.
2	**Hindi**	1. प्रतिदिन एक पेज सुलेख लिखोः– (15 पेज) 2. 'कम्प्यूटर देवाय नमः' पर निबंध लिखो। 3. पीने के पानी की समस्या के संबंध में नगर निगम को पत्र लिखो। 4. डाकपाल को डाकिए के प्रशंसनीय कार्य के लिये पत्र लिखो।
3	**Mathematics**	1. Solve Exercises 6.1, 6.2 and 6.3 2. Solve Exercises 7.1 and 7.2 3. Write and learn tables from 2 to 20.
4	**Science**	Draw a well labeled section of Human Heart and write its functioning.
5	**Social Science**	**HISTORY** Write down answers to the questions of 1 to 9 from Chapter-4 and Chapter-5 (from your NCERT Book). **GEOGRAPHY** Write down answers to the questions of 1 to 9 from Chapter-4 (from your NCERT Book). **CIVICS** Write down answers to the questions of 1 to 7 from Chapter-3 (from your NCERT Book).
6	**Computer**	Define any six secondary storage devices with their examples and images.
7	**Sanskrit**	1.श्री गणेण जी की आरती लिखो । 2..राम शब्द रूपाणि लिखतु एवं कण्ठस्थ करोतु । 3.वद् धातु पंच लकाराः लिखतु एवं कण्ठस्थ करोतु । 4.पंच श्लोकाः लिखतु एवं कण्ठस्थ करोतु स्वपाठ्य पुस्तकेषु।
8	**French**	1. Write any 20 French Adjectives of your choice & Translate into English. 2. Conjugate the verbs "To do" (faire) & "to see" (voir). Page : 151-152 3. Write down the color's names in French. Page: 93 4. Learn & write the vocabulary words of Lesson-6 in English & French. Page: 82 5. What do you know about France? (Write any civilisation from your book).

NIMAWAT PUBLIC SCHOOL
FATEHPUR SHEKHAWATI
DIWALI HOME WORK 2018-19 FOR CLASS-VIII

1	**English**	1- Learn and write questions and answers of chapter No.1 'The Best Christmas Present in the World' from Honeydew and Chapter-1 'Prayer of Peace' and Chapter-2 'God is One' from Mirror of Values. 2- Write the definitions of Sentence, Noun, Pronoun, Adjective and Adverb with examples and also write their kinds. 3- Write an essay on 'Diwali' in about 150 words.
2	**Hindi**	दिनांक 01.11.2018 से लेकर दिनांक 15.11.2018 तक प्रत्येक दिन किसी भी हिन्दी समाचार पत्र को पढ़कर मुख्य पाँच समाचार अपनी गृहकार्य पुस्तिका में लिखे।
3	**Mathematics**	1. Find the Square Root by the Prime Factorisation Method (Exercise 6.3 Question No. 4). 2. Find the Square Root by Division Method.(Exercise 6.4 Question No. 1) 3. Find the Cube Root by Prime Factorisation Method. (Exercise 7.2 Question No. 1)
4	**Science**	1. Draw a structure of Human Ear and explain its functioning. 2. Imagine that friction suddenly vanished. How would life be affected? List ten such situations.
5	**Social Science**	**HISTORY** Write down answers to the questions of 2 to 13 from Chapter-5 (from your NCERT Book). Write down answers to the questions of 1 to 9 from Chapter-6 (from your NCERT Book). **GEOGRAPHY** Write down answers to the questions of 1 to 7 from Chapter-3 (from your NCERT Book). **CIVICS** Write down answers to the questions of 1 to 7 from Chapter-3 (from your NCERT Book).
6	**Computer**	You are organizing an Inter School Quiz Competition. Prepare a slide show to present the questions of the Quiz using the features like Custom Animation, Slide Transition etc. Prepare at least 10 slides.

7	**Sanskrit**	1.श्री सरस्वती जी की आरती लिखो । 2..राम शब्द रूपाणि लिखतु एवं कण्ठस्थ करोतु । 3.खाद् धातु पंच लकाराः लिखतु एवं कण्ठस्थ करोतु 4.पंच श्लोकाः लिखतु एवं कण्ठस्थ करोतु स्वपाठ्य पुस्तकेषु।
8	**French**	1. Conjugate the verbs "To know" (connaitre) & "to finish" (finir) in French. (You can take help of your text book). 2. Prepare a list of Adverbs in English & French. (Given on Page: 84). 3. Learn & write the vocabulary words of Lesson-6 in English & French. Page: 83-84.

NIMAWAT PUBLIC SCHOOL
FATEHPUR SHEKHAWATI
DIWALI HOME WORK 2018-19 FOR CLASS-IX

1	**English**	Q1. You are fascinated by the discovery of new planets – like Earth by scientists of NASA. Write some paragraphs on the fascinating discovery and how humans can migrate to other planets? *Hints:* Discovered seven new planets which look like Earth. Search has been going on since we launched satellites – colonizing new planets for human accommodation – on Earth, we will not have sufficient resources – move to another planet. 2. On your way to school today you found a young boy washing utensils in a tea shop. You felt bad for him. Write the incident in your diary in about 100 – 150 words. 3. Develop the following lines into a short story in about 150 – 200 words. *Hints:* I watched a horror movie in which a strange creature moved around in a room hunting people. I went to bed and had a dream............... 4. Read the first two parts of **Gulliver's Travels** and write a character sketch of Gulliver and the King of Brobdingnag.
2	**Hindi**	1. आपने अपनी दीपावली की छुट्टियों का समय कैसे व्यतीत किया प्रत्येक दिन की मुख्य घटना को डायरी के रूप में लिखे। 2. किसी भी विषय पर दो निबंध लिखो।
3	**Mathematics**	**Chapter-9-Areas of Parallelograms and Triangles-** Prove Theorems 9.1 and 9.2 (from your NCERT Book). Solve Examples 1,2,3,4 Solve Exercises 9.2 and 9.3 (All questions with statements) from your NCERT Book.
4	**Science**	**CHEMISTRY** Write answers to the questions given in the Lesson "Structure of Atom" from your NCERT Book. **PHYSICS** Q1. An object thrown at a certain angle to the ground moves in a curved path and falls back to the ground. The initial and the final points of the path to the object lie on the same horizontal line. What is the work done by the force of gravity on the object? Q2. Certain force acting on a 20 kg mass changed its velocity from 5m/s to 2 m/s.

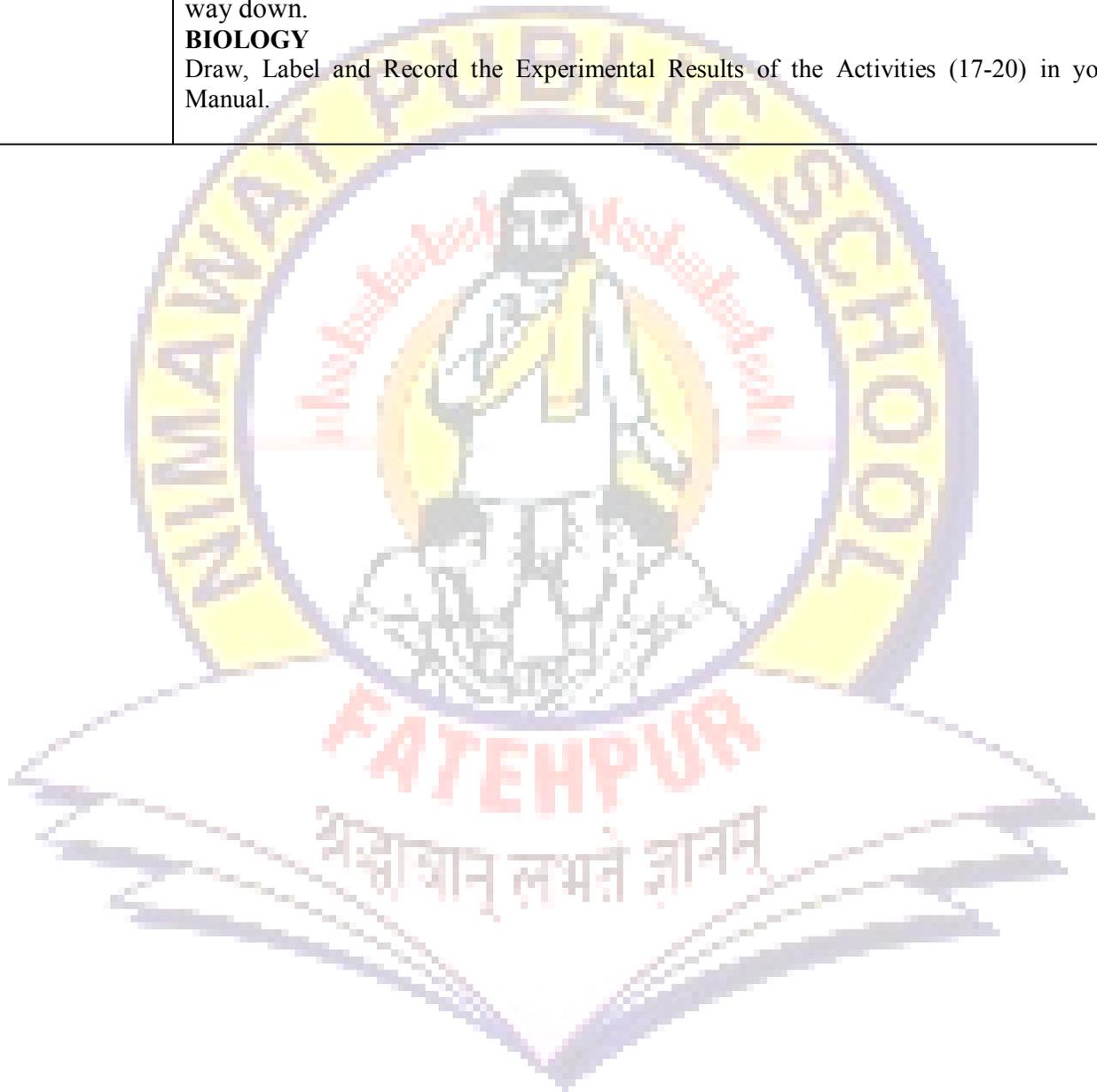Calculate the work done by the force.

Q3. A mass of 10 kg is at a point A on a table. It is moved to a point B. If the line joining A and B is horizontal, what is the work done on the object by the gravitational force? Explain your answer.

Q4. A certain household has consumed 250 units of energy during a month. How much energy is this in joules?
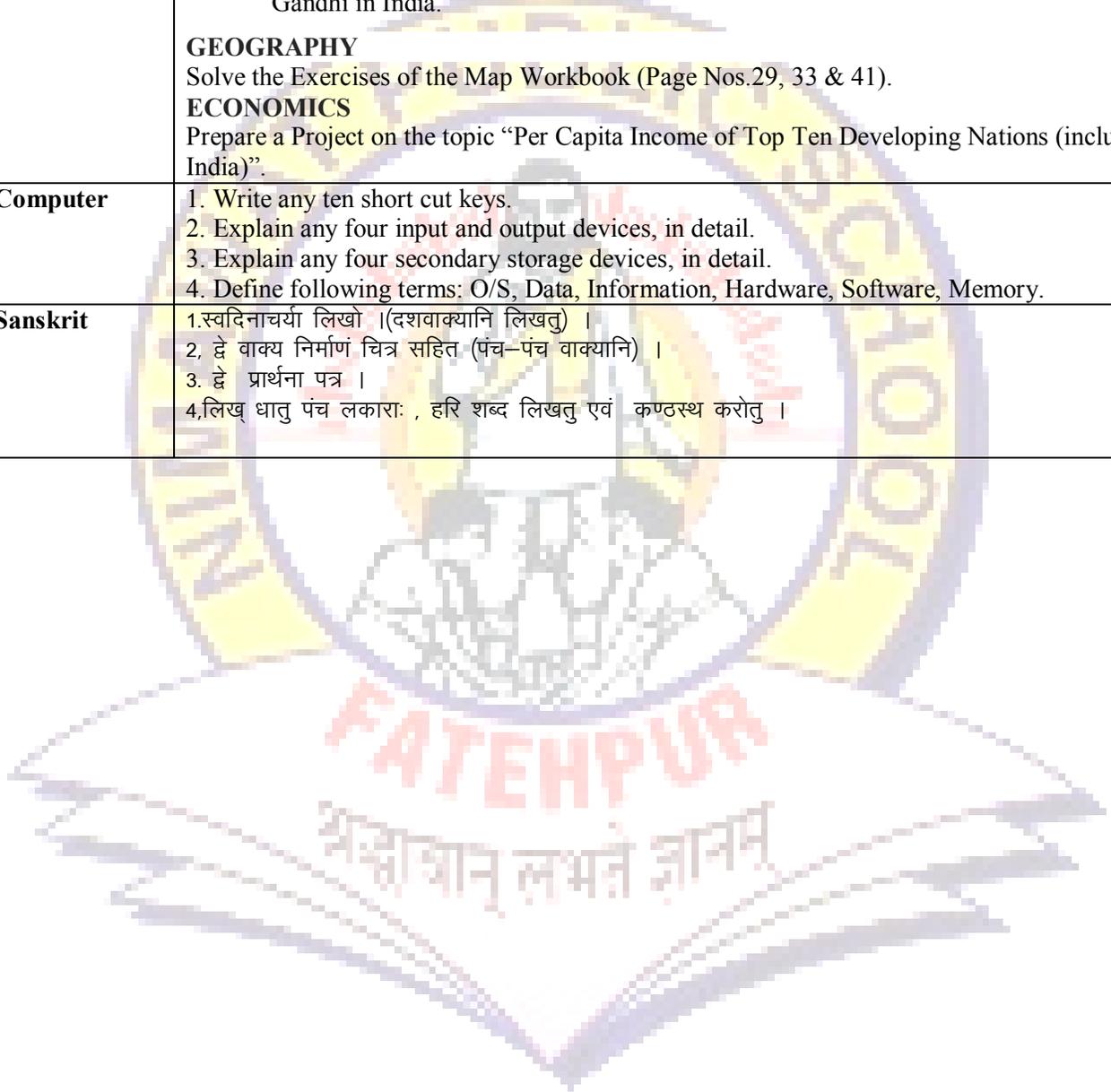
Q5. An object of mass 40 kg is raised to a height of 5 m above the ground. What is its potential energy? If the object is allowed to fall, find its kinetic energy when it is half-way down.

BIOLOGY

Draw, Label and Record the Experimental Results of the Activities (17-20) in your Lab Manual.

5	Social Science	**HISTORY**
		1. Provide solutions to the different mapping questions as given in Chapter-3 of the History book (NCERT).
		2. Make a comprehensive study of the Chapter titled "Nazism and The Rise of Hitler".
		3. Compare the freedom struggle of Nelson Mandela in South Africa & that of Mahatma Gandhi in India.
		GEOGRAPHY
		Solve the Exercises of the Map Workbook (Page Nos.29, 33 & 41).
		ECONOMICS
		Prepare a Project on the topic "Per Capita Income of Top Ten Developing Nations (including India)".
6	**Computer**	1. Write any ten short cut keys.
		2. Explain any four input and output devices, in detail.
		3. Explain any four secondary storage devices, in detail.
		4. Define following terms: O/S, Data, Information, Hardware, Software, Memory.
7	**Sanskrit**	1.स्वदिनाचर्या लिखो ।(दशवाक्यानि लिखतु) ।
		2, द्वे वाक्य निर्माणं चित्र सहित (पंच–पंच वाक्यानि) ।
		3. द्वे प्रार्थना पत्र ।
		4,लिख् धातु पंच लकारा: , हरि शब्द लिखतु एवं कण्ठस्थ करोतु ।

1	**English**	Make a comprehensive study of the Lessons titled "Environment (Unit-IV)", "Travel and Tourism (Unit-V)" and "National Integration (Unit-VI)" of the Main Course Book.
		 Write the following Essays based on the ideas given in the above-mentioned lessons:
		     1. We Need to Protect Environment for Our Survival.
		     2. Guest is God - Atithi Devo Bhavo.
		     3. Challenges of National Integration.
		 2. Read the novel "The Diary of a Young Girl" thoroughly and answer the following questions:
		     1. Give a character sketch of Anne Frank.
		     2. Draw a brief character sketch of Otto Frank.

2	**Hindi**	1. निबंध लिखोः–1. भ्रष्टाचार 2. पर्यावरण प्रदूषण और हम
		 2. पत्र लिखो–
		 1. डाकिया द्वारा ससमय पत्र नहीं पहुँचाने की शिकायत करते हुए अपने क्षेत्र के मुख्य डाकपाल को एक पत्र लिखिए।
		 2. किसी समाचार पत्र के संपादक को पत्र लिखकर बताइए कि आप अपने जिले की समस्याएँ सड़के, यातायात व्यवस्था आदि में कैसे सुधार हो।
		 3. 1) अपने पुराने मकान के बेचने संबंधी विज्ञापन का आलेख लगभग 50 शब्दों में तैयार कीजिए।
		    2) छात्रों में खेल के प्रति रूचि बढ़ाने के लिए लगभग 50 शब्दों में एक विज्ञापन तैयार करें।
		 4. 1) सूरदास के पद– नामक पाठ से संबंधी प्रश्न उत्तर लिखो।
		    2) बालगोबिन भगत नामक पाठ का सारांश लिखो।

3	**Mathematics**	Solve the problems given in Examples of NCERT Mathematics Book (Chapter 1 to 10).
4	**Science**	**CHEMISTRY** **Answer the following questions:** Q1. A compound 'X' is used for drinking, has pH=7. Its acidified solution undergoes decomposition in presence of electricity to produce gases 'Y' and 'Z'. The volume of 'Y' is double than 'Z', 'Y" is highly combustible whereas 'Z' is supporter of combustion. Identify 'X' 'Y' and 'Z' and write the chemical reactions involved. Q2. Bhawna took a pale green substance 'A' in a test tube and heated it on the flame of a burner. A brown colour residue 'B' was formed along with evolution of two gases with burning smell of sulphur. Identify 'A' and 'B'. Write the chemical equation involved. Q3. A student took 2-3 g of a substance 'X' in a glass beaker & poured water over it slowly. He observed bubbles along with hissing noise. The beaker becomes quite hot. Identify 'X'. What type of reaction is it? Q4. A student has mixed the solution of Lead (II) nitrate and potassium iodide. a. What was the colour of the precipitate formed? Can you name the compound precipitated? b. Write the balanced chemical equation for the reaction. c. What type of reaction is it? Q5. A student burnt a metal 'A' found in the form of ribbon. The ribbon burnt with a dazzling flame and a white powder 'B' is formed which is basic in nature. Identify 'A' and 'B'. Write the balanced chemical equation. Q6. Astha has been collecting silver coins & copper coins. One day she observed a black coating on silver coins and green coating on copper coins. Which chemical phenomenon is responsible for these coatings? Write the chemical name for the Black and Green coatings?

Q7. A few drops of phenolphthalein indicator were added to an unknown solution 'A'. It acquired pink colour. Now another unknown solution 'B' was added to it drop by drop and the solution becomes colourless. Predict the nature of 'A' and 'B'.

Q8. Write the 10 chemical equations from chapter-1(Chemical Reactions & Equations).

Q9. Write and balance the following chemical equations:
(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) Aluminum Metal reacts with Sulphuric acid to give Aluminum sulphate and hydrogen gas.
(e) Phosphorus Pentoxide reacts with water to give phosphoric acid.

Q10. 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.

Q11. 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.

Q12.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?

Q13.What is corrosion? Give three examples of corrosion.

Q14.What is rancidity? Write different methods of preventing rancidity.

Q15. What is oxidation reaction? Give an example of oxidation reaction. Is oxidation an exothermic or endothermic reaction?

PHYSICS
1. An object is placed at a distance of 30cm from a convex mirror, the magnification produced is 1/2. Where the object should be placed to get the magnification of 1/3?
2. Draw a ray diagram to show the path of the reflected ray corresponding to an incident ray of light to the principle axis of a convex mirror and show the angle of incidence and the angle reflection on it.
3. State two positions in which a concave mirror produces a magnified image of a given object. List two differences b/w the two images.
4. What is the minimum number of rays required for locating the image formed by a concave mirror for an object? Draw a ray diagram to show the formation of a virtual image by a concave mirror.
5. Draw a schematic diagram of an electric circuit comprising 3 cells and an electric bulb, ammeter, plug-key in the on mode and another with two bulbs in parallel and a voltmeter across the combination.
6. Explain the role of fuse in series with any electrical appliance in an electric circuit. Why should a fuse with defined rating for an electric circuit not be replaced by one with a larger rating?

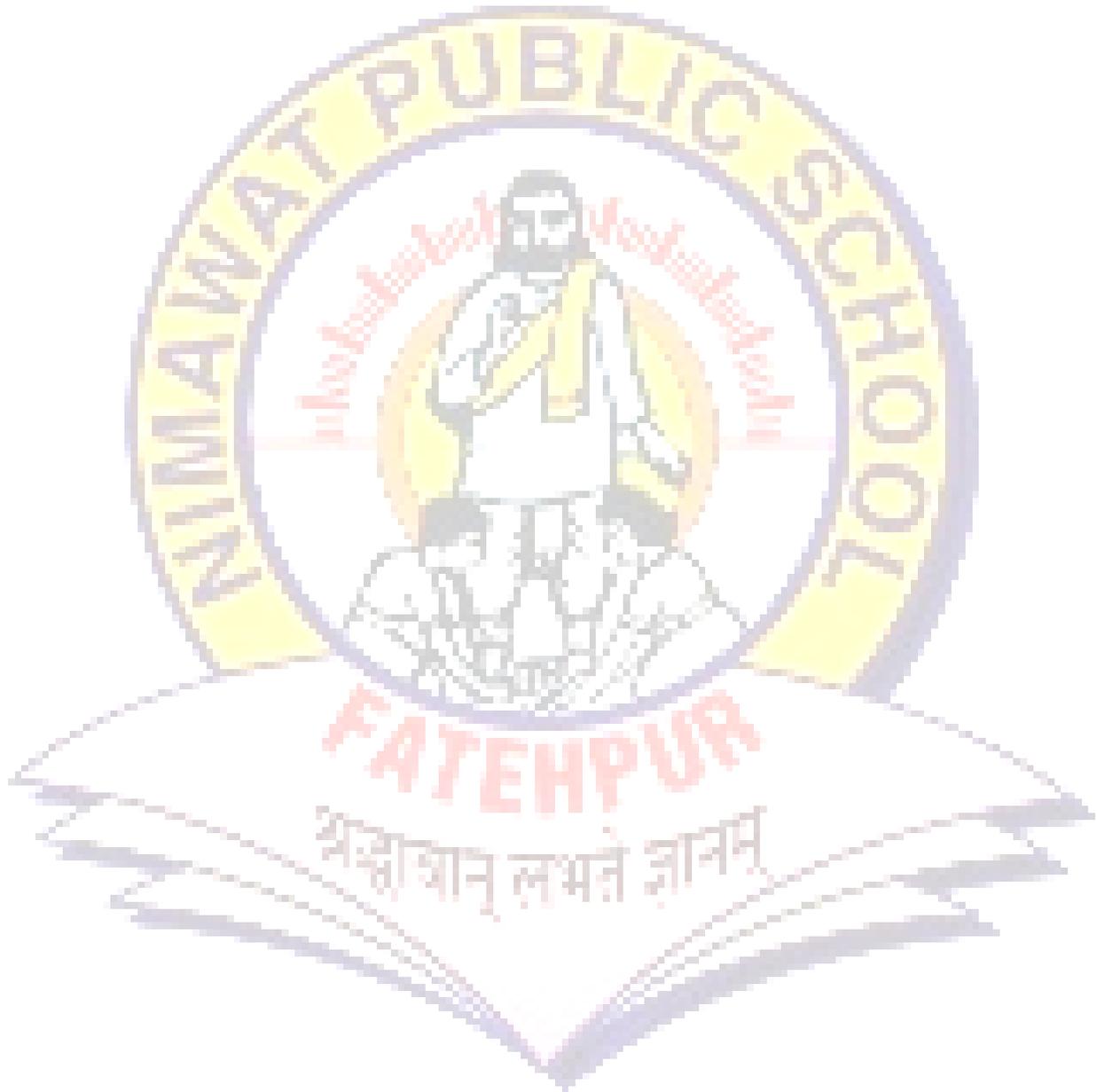|		
		7. Explain any two situations that can cause electrical hazards in domestic circuits. **BIOLOGY** 1. Write answers to the questions given in the Chapter-"Management of Natural Resources". 2. Draw, Lebel and Record Experimental Results and interpret them in the Practical Exercises as given in the Lab Manual of Class-X (Term-II). No need to write procedure.
1	**Social Science**	**HISTORY & GEOGRAPHY** 1. Provide solutions to the different Mapping questions as given in Chapters-1 and 3 of History Map Book. 2. Furnish solutions to the different Mapping questions as mentioned in Lesson-6 (Manufacturing Industries) and Lesson-7 (Lifeline of National Economy) of the Geography Map Book. **DP** Make a comprehensive study of Chapter- 4 (Gender, Religion & Caste) of your NCERT Book and write answers to the questions as given in the lesson. **ECONOMICS** Prepare a project on the topic: "Forms of Money."
6	**Computer**	1. Write HTML code to design an application on the basis of format given. Name of School, Name of Student, Grade, DOB; After High School I would like to be: My Top 4 favourite Fruits are: My Top 4 favourite Movies are: My Top 3 favourite Teachers are: Note: This page must include a different background or text colour, font style and at least one image somewhere on the page. **Hints:** To change the font, use <FONT> tag. To insert an image, use <IMG SRC> tag To insert bullets, use <OL> tag. To write paragraph, use <P> tag. To write largest heading, use <H6> tag. To break line, use tag. To format text, use <B>, <I> and <U> tag.
7	**Sanskrit**	1.श्री गणेश जी की आरती लिखो । 2, द्वे वाक्य निर्माणं चित्र सहित लिखो (पंच–पंच वाक्यानि) । 3, द्वे प्रार्थना पत्रं लिखो । 4.पठ् धातु पंच लकारा: , राम शब्द लिखतु एवं कण्ठस्थ करोतु ।

1	**English**	1. Read newspaper daily. Pick an article of relevance discussing social issues. Paste six articles in your holiday H.W. notebook.
		2. Write a speech for the school assembly in about 150-200 words on the topic 'Effective listening is more important than talking'.
		3. It is said God could not be everywhere so he created mothers. Mothers sacrifice their happiness to bring smiles on their children's faces. Taking a cue from the drama 'Mothers' Day' make Diwali Vacation very special for your mother. Write a paragraph on 'The Memorable Diwali' or make a photo collage on it. (word limit 80-100).
2	**Hindi**	निम्नलिखित विषयों पर निबंध लिखेः— 1. दीपावली–सदेंश–महत्व 2. रावण–व्यक्तित्त्व एवं कमियाँ 3. मेरा दीपावली अवकाश 4. मेरी दादीजी/नानीजी 5. मेरा प्रिय खेल 6. सदाचार 7. चरित्र का महत्व निम्नलिखित विषयों पर फीचर लिखेः— 1. प्रकृति से अन्याय–परिणाम 2. विनम्रता 3. परोपकार 4. त्याग 5. अहिंसा समाचार पत्र पढ़कर कोई 10 दिन के मुख्य समाचार लिखें। अवकाश के दौरान क्या किया प्रत्येक दिन का विवरण एक पृष्ठ में लिखें। (लगभग 10 दिन–पृष्ठ)।
3	**Mathematics**	**Chapter: 3 Trigonometry Function** Examples- 11, 14, 17, 24, 27, 28, 29. **Ex- 3.4** Question-4 &7, Miscellaneous Exercise Question-8, 9 & 10. **Ex-: 4.1** Question-3, 11, 18, 19, 23. **Ex- 5.0** Complex Number- Examples-7, 8, 13, 15, 16. Miscellaneous Exercise Question-12,17, 19 **Chapter:7- Permutation and Combination Miscellaneous-**1, 2, 10, 11. **Chapter:8- Binomial Theorem-** Solved Example- 1 to 17.
4	**Physics**	Q1. The edge of an aluminum cube is 10 cm long. One face of the cube is firmly fixed to a vertical wall. A mass of 100 kg is then attached to the opposite face of the cube. The shear modulus of aluminum is 25 G Pa. What is vertical deflection of this face? Q2. A piece of copper having a rectangular cross-sectional of 15.2 mm x19.1 mm is pulled in tension with 44500 N force, producing only elastic deformation. Calculate the resulting strain. Q3. A steel cable with a radius of 1.5 cm supports a chairlift at a ski area. If the maximum stress is not to exceed 10^8 Nm^{-2}, what is the maximum load on the steel cable?

Q4. A rigid bar of mass 15 kg is supported symmetrically by three each 2.0 m long. Those at each end are of copper and the middle one is of iron. Determine the ratios of their diameters if each is to have the same tension.

5	**Chemistry**	Make an Investigatory Project on Environmental Chemistry at least with in 1000 words.
6	**Biology**	Prepare an Investigatory Project on any of the given topics as per guidelines; "Harmful Effect of Mobile Radiations" on living organisms, "Microbes and Bio Fertilizers & Endocriology & Disorders".
7	**Accountancy**	According to guidelines specified by CBSE as explained in the Class, prepare a **Project** on any one of the following topics: 1. Collection of source documents, preparation of vouchers, recording of transactions with the help of vouchers. 2. Preparation of Bank Reconciliation Statement with the given cash book and the pass book with twenty to twenty-five transactions. 3. Comprehensive project of any sole proprietorship business. This may state with journal entries and their ledger, preparation of Trial balance. Trading and Profit and Loss Account and Balance Sheet. Expenses, incomes and profit (loss), assets and liabilities are to be depicted using pie chart/ bar diagram.
8	**Business Studies**	Make a **Project** on any one of the following topics in your own (neat) handwriting: At least 750 words with related pictures. File and sheets used should be eco-friendly. Preferably-recycled paper. 1. The profile of a successful Indian businesswoman. 2. Study of a small-scale unit in your locality to bring out the procedures and processes adopted by the unit to become a feasible business venture. 3. A study of competition in business by choosing two or more rivals in the Indian market, analyzing their relative strengths and weakness. A case study on a thriving fast food restaurant or retail outlets (grocery store/ departmental store etc.) in your locality. What makes it a successful business?
9	**Economics**	Worksheet of chapter 5 - Elasticity of Demand. (Already given to students). 15 questions of mean, 5 questions from each method (Direct, Short-cut and Step deviation method).
10	**Informatics Practices**	1. Write a short note on "Cloud Computing". 2. Write any ten MySQL queries. 3. Explain all String, Numeric, and Date-Time Functions of MySQL, with examples. 4. Give difference between: Delete and Drop commands of MySQL. 5. Give difference between: DDL and DML commands. 6. Give difference between: Update and Alter statements of MySQL.
11	**Physical Education**	Write and Complete Experiments and Observation Table of Term-II as given in your Lab Manual.

NIMAWAT PUBLIC SCHOOL

FATEHPUR SHEKHAWATI

DIWALI HOME WORK 2018-19 FOR CLASS-XII

1	**English**	1. Character Sketch of Silas Marner & God Frey-200 words. 2. Make a Poster of Diwali Celebration. (With good Slogans & Pics). 3. Write an Article on "Need of Value-Education for Students" **or** As an Editor of Navbharat Times, Make a Report of Dussehra Celebrations.
2	**Hindi**	1. परियोजना कार्यः– हरिवंश राय 'बच्चन' का जीवन परिचय – संघर्ष गाथा एवं साहित्यिक उपलब्धियाँ लिखते हुए उनकी प्रमुख कृति ''मधुशाला'' का सारांश लिखें। 2. ''शबरीमाला'' मंदिर में महिलाओं का प्रवेश वर्जित था, उच्चतम न्यायालय ने प्रवेश शुरू करवाया, परंतु वहाँ महिलाएँ व पुरूष सुरक्षा–कवच बन कर खड़े हैं तथा सुप्रिम कोर्ट के आदेश की अवहेलना की जा रही है, इस मंदिर का सम्पूर्ण इतिहास, चित्र परंपराएँ मान्यताएँ आदि का वर्णन करते हुए प्रोजेक्ट बनाओ। दोनो प्रोजेक्ट एक ही फाइल में बनाएं, पहला लगभग 15 पृष्ठ का तथा दूसरा 8–10 पृष्ठ का हो, हस्तलिपि सुंदर एवं स्पष्ट हो, चित्र भी बनाएं तथा आवश्यकतानुसार विभिन्न रंगों का प्रयोग करें। किसी भी तरह की समस्या आने पर सम्पर्क करें। 9413432665
	Mathematics	1. (a) Write all formulae of differentiation and integrations. (b) Standard formulae of integration. (c) Solve 15 question of partial integration and integration by substitution. 2. To solve 10 question on the following topics: (a) Inverse differentiation (b) Logarithmic differentiation (c) Parametric differentiation (d) Higher order differentiation (e) Rolles theorem and mean value theorem.
4	**Physics**	Prepare the assigned investigatory project and also solve following questions- 1. Why photoelectric effect cannot be explained on the basis of wave nature of light? Give reasons. 2. A proton and an electron have same velocity. Which one has greater de Broglie wavelength and why? 3. A proton and an alpha particle are accelerated through the same potential. Which one of the two has (a) greater value of de-Broglie wavelength associated with it and (b) less kinetic energy? Give reason to justify your answer. 4. The kinetic energy of the electron orbiting in the first excited state of hydrogen atom is 3.4eV. Determine the de Broglie wavelength associated with it. 5. A 12.5eV electron beam is used to excite hydrogen atom at room temperature. Determine the wavelengths and the corresponding series of the lines emitted. 6. Unpolarised light is passed through a Polaroid P_1. When this polarised beam passes through another Polaroid P_2 and if the pass axis of P_2 makes angle θ with the pass axis of P_1, then write the expression for the polarised beam passing through P_2. Draw a plot showing the variation of intensity when θ varies from 0 to 2π. 7. A beam of light consisting of two wavelengths 800nm and 600nm is used to obtain the interference fringes in a young's double slit experiment on a screen placed 1.4 m away. If the two slits are separated by 0.28mm, calculate the least distance from the central bright maximum where the bright fringes of the two wavelengths coincide. 8. What is the value of refractive index of a medium of polarizing angle 60^0? 9. A compound microscope uses an objective lens of focal length 4cm and eyepiece lens of

		focal length 10cm. An object is placed at 6cm from the objective lens. Calculate the magnifying power of the Compound Microscope. Also calculate the length of the Microscope.
		10. A screen is placed at a distance of 100 cm from an object. The image of the object is formed on the screen by a convex lens for two different locations of the lens separated by 20 cm. Calculate focal length of lens used.

5	**Chemistry**	1. Make a list of all the named reactions in chapter 10-13 and write them in your assignment register.
		2. Prepare a project report (investigatory)in separate file involving laboratory testing & collecting information from different sources on any two of the following:
		   A. Vitamin-C content in fruit juices.
		   B. Preparation of paints and pigments.
		   C. Water analysis.
		   D. Casein content in different milk samples.
		   E. Alcohol content in cough syrups.
		   F. Best antacid available in the market.
		   G. Oxalate ion content present in different stages of ripening of guava.
		   H. Dyes and fabrics.
		3. Prepare a formula chart on following of the units:
		   (1) Solid State (2) Solutions (3) Electrochemistry (4) Chemical Kinetics

6	**Biology**	Prepare an Investigatory Project on any of the given topics as per guidelines: HGP (Human Genome Project), Drug Addictions -A Challenge to Youth, Gene Therapy, Microbes in Human Welfare, Human Cloning: Another You & Diabetes and Exercise.
7	**Accountancy**	Prepare Accountancy Project File with Ten Problems, Two comprehensive, Four Specific Problems of Accounting Ratios and four specific problems of cash flow statement.
8	**Business Studies**	According to guidelines specified by CBSE, prepare a **Project** on selecting any topic from the following: **(1). Principles of Management**-Scientific Principles of Management by F. W. Taylor and General Principles of Management by Henry Fayol, their application and effect on Industries. **or** **Elements of Business Environment** -Effect of changing Business Environment, changing in demand of product by customer, changes in transportation of fruits and vegetables such as cardboard crates being used in place of wooden crates. Reason for such changes, Plastic Chair (doors and stools) gaining preference over wooden furniture. **or** **Stock Exchange-**Develop a brief report on history of Stock Exchanges in India, prepare a list of at least of 25 companies listed on a Stock Exchanges, to make an imaginary portfolio totaling a sum of Rs 50,000 equally in any of the 5 companies of their choice listed above over a period of twenty working days. **or** **Marketing Management**- Select any product and five competitive companies producing the same product and find the importance of the concept of marketing mix i.e. Product, Price, Place, Promotion. Project work Number of pages: 30 to 40 pages The aim of the project is to develop a clear understanding of the process of Marketing Management among the students. Students are required to make a project on an identified product as discussed in the class keeping in mind the following points:

		1. Why have they selected the product?
		2. Find out 5 competitive brands that exist in the market.
		3. Comparative study between the competitors and your product on the bases of U.S.P., Selling Price (to wholesaler, retailer and consumer) along with profit percentage margin.
		4. What permission and licenses would be required to make the product?
		5. Details of the product range.
		6. Name of the product.
		7. Features of the product.
		8. Label and logo of your product.
		9. Tag line of the product.
		10. Packaging of the product.
		11. Channel of distribution to be used giving reasons.
		12. Transport means to be used.
		13. Warehousing requirements.
		14. Promotion techniques of your product.
		15. SWOT Analysis of the product.
		16. Social message of the product.

9	**Economics**	1. Prepare a Small Project on any one of the following topics:
		    a) Goods and Service Tax.
		    b) Price Determination under different market structure.
		    c) Circular flow of money in-
		        - Two Sector Model
		        - Three Sector Model
		        - Four Sector Model
		2. Solve a set of five numerical of Computing National Income by following all three methods:
		    a) Income Method
		    b) Expenditure Method
		    c) Value Added Method

10	**Informatics Practices**	Solve all Examples of Chapter-8 (Database Connectivity) in Practical File.

11	**Computer Sciences**	1. Write any ten SQL queries.
		2. Explain SQL Group/Aggregate Functions, with examples.
		3. Write any five programs in C++ based on 1-D and 2-D Arrays.
		4. Write short notes on:
		    a. Stack Data Structure.
		    b. Queue Data Structure.

12	**Physical Education**	Complete all the written parts including observation table of the following Term-II experiments given in Lab Manual. a) Modified AAHPER administration for all items. b) Procedure for administering Senior Citizen Fitness Test for five elderly family members. c) Conduct Barrow-3 item test on 10 members.