THE ASIAN SCHOOL, DEHRADUN
HOLIDAY HOMEWORK OF WINTER VACATION 2019 FOR CLASS XI

English: Instructions:

Section- A
(Read the lessons and poem and form your opinion. answer to be written in H.W. notebook)

1. 'Father to Son' voices the universal filial love experienced by a father despite having differences with his child. What solution would you suggest to bridge the rift between generations?
2. 'Mother's Day' depicts how women are marginalized even in the household. Do you think there is a need for them to strive for equality in the domestic sphere and break stereotypes?
3. A.J. Cronin's 'Birth' is a tale of grit and determination. It also contrasts theory and practice. Justify.
4. 'The Tale of Melon City' is a satirical commentary on trial and judgment. Elaborate.
5. Jayant Narlikar's 'The Adventure' is a concoction of Physics and Fantasy. Comment."

Section – B
ASL (Students need to prepare the following topics for ASL which will be conducted after winter break)

1. The Power of Media
2. Relevance of Shakespeare in the Indian Classroom
3. Awareness of Online Transaction Fraud
4. Monarchy versus Democracy
5. Origin of English
6. Advantages and Disadvantages of Social Media
7. Adolescence: A period to be taken care of for the enrichment of future life
8. India's Space Missions
9. Education for the Girl Child
10. Famous Temples across India
11. Modern Developments in Science
12. Does technology get in the way of studying or does it help?
13. Alternate sources of energy
14. Home- schooling : Is it better than studying at school?
15. Is the system of education in our country relevant in the present scenario?

Hindi: 1. निम्नलिखित विषयों पर 300 शब्दों का निबन्ध लिखिए—

1. भारत की राजनीतिक उपलब्धियाँ
2. रामजन्म भूमि तथा बाबरीमस्जिद से सम्बन्धित अयोध्या के संबंध में सर्वोच्च न्यायालय का दिया गया निर्णय

2. पत्र–लेखन

क). स्कूल के प्रबन्धक को पत्र लिखिए, जिसमें स्कूल में खेल के मैदान में होने वाले गड्डो को भरने का अनुरोध किया गया हो।

ख) केन्द्रीय माध्यमिक शिक्षा बोर्ड के परीक्षा नियंत्रक की ओर से बारहवीं कक्षा के परीक्षार्थी के लिए एक पत्र लिखिए, कि उसने अपनी जन्मतिथि का प्रमाणपत्र नहीं भेजा है।

3. फीचर–लेखन लिखिए—150 शब्दों में

क) विद्यालयी छात्र के लिए अनुशासन का महत्व ख) महानगरों में बढ़ती आवासीय समस्या ग) अपने शहर को पॉलिथीन तथा प्लास्टिक मुक्त कैसे बनाएँ
नोट – समस्त कार्य अपनी गृहकार्य पुस्तिका में लिखिए।

Mathematics:

Part- A Do any 10 activities in a project file following the instructions given below:

Instructions:

- The project report should be handwritten in a project file (ruled sheet)
- It should contain Acknowledgement, Index and Bibliography.
- The project report should be presented in the following order: (a) Cover page showing title page of the project, student information, name of school and academic session. (b) Acknowledgement (c) Index (d) Chapters with relevant headings (e) Summary and conclusion based on findings (f) Bibliography.
- All diagrams and sketches should be labelled and acknowledged.

Note : The activities are provided in a pdf form through the class teacher's whatsapp groups.

PART- B - The following questions to be done in Maths Homework Note book .

Q1. Find values of': a) $\sin 17\pi$ b) $\cos\frac{39\pi}{4}$ c) $\csc\left(\frac{-20\pi}{3}\right)$ d) $\tan\frac{7\pi}{4}$ e) $\cos\left(\frac{-8\pi}{3}\right)$ f) $\cot\left(\frac{-15\pi}{4}\right)$

Q2. Prove $\sin(-420)\cos(390) + \cos(-660)\sin(330)= -1$

Q3. Prove $2\sin^2\frac{3\pi}{4} + 2\cos^2\frac{\pi}{4} + 2\sec^2\pi/3 = 10.$

Q4. If $\sin A = \frac{3}{5}$, $\cos B = \frac{9}{41}$ $0 < A < \pi/2$, $0 < B < \frac{\pi}{2}$ find $\sin(A-B)$, $\sin(A+B)$, $\cos(A-B)$ $\cos(A+B)$

Q5. Find value of $\tan\frac{7\pi}{12}$, $\cos\frac{\pi}{12}$

Q6. Prove that : $\cos\frac{7\pi}{12} + \cos\frac{\pi}{12} = \sin\frac{5\pi}{12} - \sin\frac{\pi}{12}$

Q7. Prove that : a) $\frac{\cos 11^0 + \sin 11^2}{\cos 11^0 - \sin 11^0} = \tan 56^0$ b) $\frac{\cos 9^0 + \sin 9^0}{\cos 9^0 - \sin 9^0} = \tan 54^0$ c) $\frac{\cos 8^0 - \sin 8^0}{\cos 8^0 + \sin 8^0} = \tan 37^0$

Q8. Prove that : a) $\cos^2\frac{\pi}{4} - \sin^2\frac{\pi}{12} = \frac{\sqrt{3}}{4}$ b) $\sin^2(n+1)A - \sin^2 nA = \sin(2n+1)A \sin A$

Q9. If $\frac{\sin(x+y)}{\sin(x-y)} = \frac{a+b}{a-b}$, show that $\frac{\tan x}{\tan y} = \frac{a}{b}$

Q10. Prove that : $\sin 10^0 \sin 30^0 \sin 50^0 \sin 70^0 = \frac{1}{16}$

Q11. Show that : $\sin 50^0 \cos 85^0 = \frac{1 - \sqrt{2}\sin 35^0}{2\sqrt{2}}$

Q12. $\frac{\sin 5A - \sin 7A + \sin 8A - \sin 4A}{\cos 4A + \cos 7A - \cos 5A - \cos 8A} = \cot 6A$

Q13. Prove that : $\cot\frac{\pi}{8} = \sqrt{2} +1$

Q14. $4\left(bc\cos^2\frac{A}{2} + ca\cos^2\frac{B}{2} + ab\cos^2\frac{C}{2}\right) = (a+b+c)^2$

Q15. $\sin 3x - \sin x = 4 \cos^2 x - 2$

Q16. Which term of sequence $12+8i$, $11+6i$, $10+4i$ .... is   a) Purely real   b) Purely Imaginary

Q17. The sum of three terms of an A.P. is 21 and the product of the first and the third terms exceeds the second term by 6, find three terms.

Q18. If : $\frac{1}{a}, \frac{1}{b}, \frac{1}{c}$ are in A.P, prove   a $(b+c)$, b $(c+a)$, c $(a+b)$ are in AP.

Q19. The seventh term of a G.P is 8 times the fourth term and 5th term is 48. Find the G.P.

Q20. The sum of three numbers in G.P is 14. If the first two terms are each increased by 1 and the third term decreased by 1, the resulting numbers are in A.P. find the numbers.

Q21. Find the sum of the series : $9 + 99 + 999 + ...$ to n terms.

Q22. The ratio of the sum of first three terms is to that of first 6 terms of a G.P is 125: 152. Find the common ratio.

Q23. The 4th and 7th terms of a G.P are 1/27 and 1/729 respectively. Find the sum of n terms of the G.P.

Q24. The fifth term of a G.P. is 81 whereas its second term is 24. Find the series and sum of its first eight terms.

Q25. Prove that $(9^{1/3} .9^{1/9} . 9^{1/27} ..... \infty) = 3$.

Q26. If S_p denotes the sum of the series $1 + r^p + r^{2p} + ...$ to ∞ and s_p the sum of the series $1 - r^p + r^{2p} ...$ to ∞, prove that $S_p + s_p = 2 S_{2p}$.

Q27. Find the rational number whose decimal expansion is $0.4\overline{23}$.

Q28. If the A.M., A and two positive numbers a and b (a>b) is twice their geometric mean. Prove that : $a:b = (2+\sqrt{3}) : (2 - \sqrt{3})$.

Q29. If one A.M., A and two geometric means G1 and G2 inserted between any two positive numbers, show that $\frac{G1^2}{G^2} + \frac{G_2^2}{G_1} = 2A$.

Q30. $1.2.5 + 2.3.6 + 3.4.7 + ...$ Find sum to n terms.

Q41. If the coefficients of $(2r+4)$th and $(r-2)$th terms in the expansion of $(1+x)^{18}$ are equal, find r.

Q42. Prove that the coefficient of $(r+1)$th term in the expansion of $(1+x)^{n+1}$ is equal to the sum of the coefficients of rth and $(r+1)$th terms in the expansion of $(1+x)^n$.

Q43. Prove that the term independent of x in the expansion of $\left(x + \frac{1}{x} \right)^{2n}$ is $\frac{1.3.5...(2n-1)}{n!}.2^n$.

Q44. If the coefficients of 2nd, 3rd and 4th terms in the expansion of $(1+x)^{2n}$ are in A.P, show than $2n^2 - 9n + 7 = 0$.

Q45. If the coefficients of 2nd, 3rd and 4th terms in the expansion $(1+x)^n$ are in A.P, then find the value of n.

Q46. If the term free from x in the expansion of $\left(\sqrt{x} - \frac{k}{x^2} \right)^{10}$ is 405, find the value of k.

Q47. Find n in the binomial $\left(\sqrt[3]{2} + \frac{1}{\sqrt[3]{3}} \right)^n$, if the ratio of 7th term from the beginning to the 7th term from the end is 1/6.

Q48. Find the middle term in the expansion of : $\left(\frac{2}{3}x - \frac{3}{2x} \right)^{20}$

Q49. Show that the three points A (2,3,4), B(-1,2-3) and C (-4,1,-10) are collinear and find the ratio in which C divides AB.

Q50. Find the ratio in which the line joining (2,4,5) and (2,5,6) is divided by the yz-plane.

Q51. Find the ratio in which the line segment joining the points (2,-1,3) and (-1,2,1) is divided by the plane x+y+z= 5.

Q52. Find the centroid of a triangle, mid points of whose sides are (1,2,-3), (3,0,1) and (-1,1,-4).

Q53. The mid points of the sides of a triangle ABC are given by (-2,3,5), (4,-1,7) and (6,5,3). Find the coordinators of A,B and C.

Q54. Show that the points (3,2,2,), (-1,4,2), (0,5,6), (2,1,2) lie on a sphere whose centre is (1,3,4). Find also its radius.

Q55. If A (-2,2,3) and B(13,-3,13) are two points. Find the locus of a point P which moves in such a way that 9PA = 2PB.

Q56. Show that the point A (3,3,3), B(0,6,3), C(1,7,7) and D (4,4,7) are the vertices of a square.

Q57. X-axis : $\sqrt{34}$; y-axis : $\sqrt{41}$; z-axis : 5.

Q58. If the origin is the centroid of a triangle ABC having vertices A (a,1,3), B9-2,b-5) and C (4,7,c), find the values of a,b,c.

Q59. Find term independent of x in the expansion of $\left(\sqrt{\frac{x}{3}} + \frac{\sqrt{3}}{2x^2} \right)^{10}$

Q60. Show that the expansion of $\left(x^2 + \frac{1}{x} \right)^{12}$ does not contain any term involving x^{-1}.

Physics : Prepare a project report on any of the following topics : (Cover 5 numerical from each topic)

1. **Gravitation** : Topic to be covered : (i) Kepler's Law: Universal Law of Gravitation, Determination of Gravitation constant, Acceleration due to gravity below and above the surface of earth)

   (ii) Gravitation Potential Energy : Escape Velocity, Earth Satellite, Total energy of orbiting satellite, geo- Stationary satellite and polar satellite, Weightlessness of satellite.

2. **System of particles and rotational motion** : Topic to be covered : (i) Centre of Mass : Centre mass of Rigid body, Semi circular ring, semi circular disk, solid hemisphere, a thin rod

   (ii) Motion of Centre of Mass : Linear momentum of system of particles, conservation of linear momentum, angular velocity, torque and angular momentum.

   (iii) Equilibrium of a Rigid body : Couple, principle of moments, centre of gravity

   (iv) Moment of Inertia : Radius of Gyration, Kinetic energy of rotating body and moment of inertia

   (v) Theorems of perpendicular and parallel axes : Moment of inertia of ring, circular disc, uniform road, solid cylinder, hollow sphere

   (vi) Rotational Kinetic Energy: Rolling Motion, Kinetic energy of rolling body

3. **Mechanical Properties of Bulk Matter :** Topic to be covered : Elastic behaviour of Solids, Stress and Strain, Hooke's Law, types of Elasticity and Application, Poison's Ratio, Elastic Potential Energy

4. **Mechanical Properties of Fluids at rest:** Topic to be covered (i) Pressure, Stream line flow, Bernoulli's Theorem, Reynold's Number, Force of Cohesion, Force of Adhesive

   (ii) Surface Tension, Surface Energy, Capillarity, Poiseuille's Equation

5. **Thermodynamics :** Topic to be covered : (i) Temperature and heat, Measurement of Temperature, Absolute Temperature, Thermal Expansion, Heat Capacity, Calorimetry, Change of State, Phase diagram of Water (Triple Point)

(ii) Thermal Properties of Matter (Heat Transfer), Modes of Transfer of Heat, Thermal Conductivity , Thermal Resistance, Convection, Radiation, Newton's cooling law, Steafan's law, Kirchhoff's Law.

(iii) Thermal Equilibrium, Zeroth Law, Heat, Work and Internal Energy, First Law of Thermodynamic, Thermodynamic Process, Application of First Law of Thermodynamic, Isothermal and Adiabatic Equations

(iv) Heat Engine, Refrigerator, Second Law of Thermodynamics, Carnot's Reversible Engine

(v) Kinetic Theory, Behaviour of Perfect Gas and Kinetic Theory, Degree of Freedom, Mean Free Path, Brownian Motion, Avogador's Number

6. **Mechanical Waves :** Topic covered by (i) Oscillations: Periodic Motion, Oscillatory Motion, Vibration Motion, Time Period Frequency, Simple Harmonic Motion and its properties, Graphical representation of particle's displacement, velocity and acceleration.

(ii) Expression for time period, frequency of a particle SHM, Restoring force, Motion of a body suspended by two springs connected in parallel an series, Second Pendulum, Time period for Infinite length, Energy in SHM, Damped harmonic motion, Free Oscillation, Force Oscillation and Resonance.

7. **Waves :** topic covered by :(i) Types of Waves, Displacement Relation in a Progressive Wave, Speed of Transfer Waves, Principle of Super Position of Waves

(ii) Reflection Waves, Beats, Doppler's Effect, Musical Sound, Characteristics of Sound

8. **Ray Optics :** Topic covered by : (i) Reflection of light, Reflection of light of Spherical Mirrors, Mirror Formula, Magnification, Application of uses of Concave and Convex Mirror

(ii) Refraction of light, Laws of Refraction, Refractive Index, Refraction through a glass slab, compounds slab, Real depth and Apparent Depth

(iii) Atmospheric Reflection, Demonstration for total Internal Reflection, Applications

(iv) Refraction of Spherical Surfaces lens, Prism, Natural Phenomena related to Sun light

(v) Optical instrument, a) The Human Eye, Defects of vision and their correction b) simple Microscope c) Compound Microscope d) Telescope

Instructions:

- The project report should be handwritten in A-4 size sheets.
- It should be of minimum 15 pages excluding Acknowledgement, Index and Bibliography.
- The project report should be presented in the following order: (a) Cover page showing title page of the project, student information, name of school and academic session. (b) Acknowledgement (c) Index (d) Chapters with relevant headings (e) Summary and conclusion based on findings (f) Bibliography.
- All photographs and sketches should be labelled and acknowledged.
- Numerical to be done in Physics Homework Note book.

Chemistry :

a) Prepare a model on the topic 'Green Sector' principles, industrial biotechnology and green chemistry. The model consist of research, management activities and policy activities.

b) Write at least three methods of remove permanent hardness from underground hard water. Write chemistry of the following compounds including their structures : Borax, Boric acid, Gypsum, Washing Soda, Bleaching Powder, Baking Soda, Quicklime, Cement

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Bio : Prepare an investigatory project report on any one topic out of the following – human digestive system and its disorders/ human respiratory system and its disorders/ human excretory system and its disorders/ human skeletal system and its disorders/ human muscular system and its disorders/human nervous system and its disorders/ human hormonal system and its disorders/ structure of nucleic acids (DNA) and mutations.

Instructions:

- The project report should be handwritten in A-4 size sheets.
- The project report should be presented in the following order :
  (a) Cover page showing title page of the project, student information, name of school and academic session.
  (b) Acknowledgement
  (c) Chapters with relevant headings
  (d) Summary and conclusion based on findings
  (e) Bibliography.
- The project must contain 18-22 pages.
- Credit will be awarded to the original drawings, pictures, illustrations and creative use of materials.
- All photographs and sketches should be labelled and acknowledged.

Computer:

Q1. Write a Python program to get a string made of the first 2 and the last 2 characters from a given string.

Q2. Write a Python program to get a single string from two given strings, separated by a space and swap the first two characters of each string.

Sample String : 'abc', 'xyz'
Expected Result : 'xyc abz'

Q3. Write a Python program to find the first appearance of the substring 'not' and 'poor' from a given string, if 'not' follows the 'poor', replace the whole 'not'...'poor' substring with 'good'..

Sample String : 'The lyrics is not poor!'
'The lyrics is poor!'
Expected Result : 'The lyrics is good!'
'The lyrics is poor!'

Q4. Write a Python script to check if a given key already exists in a dictionary.

Q5. Write a Python script to print a dictionary where the keys are numbers between 1 and 15 (both included) and the values are square of keys. Sample Dictionary
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81, 10: 100, 11: 121, 12: 144, 13: 169, 14: 196, 15: 225}

Q6. Write a Python program to count the number of strings where the string length is 2 or more and the first and last character are same from a given list of strings
Sample List : ['abc', 'xyz', 'aba', '1221']
Expected Result : 2

Q7. Write a Python program to find the second smallest number in a list

Q8. Define the following with respect to DBMS:
1. Foreign key 2. Cartesian Product 3. Relational Algebra 4. Degree and Cardinality

Q9. Consider the following tables Product and Client. Write SQL commands for the statement (i) to (iv) and give outputs for SQL queries (v) to (viii)

Table: PRODUCT

P_ID	Product Name	Manufacturer	Price
TP01	TalcomPowder	LAK	40
FW05	Face Wash	ABC	45
BS01	Bath Soap	ABC	55
SH06	Shampoo	XYZ	120
FW12	Face Wash	XYZ	95

Table: CLIENT

C_ID	Client Name	City	P_ID
01	TalcomPowder	Delhi	FW05
06	Face Wash	Mumbai	BS01
12	Bath Soap	Delhi	SH06
15	Shampoo	Delhi	FW12
16	Face Wash	Banglore	TP01

(i) To display the details of those Clients whose city is Delhi.

(ii) To display the details of Products whose Price is in the range of 50 to 100(Both values included).

(iii) To display the ClientName, City from table Client, and ProductName and Price from table Product, with their corresponding matching P_ID.

(iv) To increase the Price of all Products by 10

(v) SELECT DISTINCT Address FROM Client.

(vi) SELECT Manufacturer, MAX(Price), Min(Price), Count(*) FROM Product GROUP BY Manufacturer;

(vii) SELECT ClientName, ManufacturerName FROM Product, Client WHERE Client.Prod_Id=Product.P_Id;

(viii) SELECT ProductName, Price * 4 FROM Product.

Q10 Differentiate between (i) DDL and DML (ii) Alter and Update Command (iii) DROP and Delete Command

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History : Complete the CBSE prescribed project work according on "Confrontation of Culture".
(Based on internet research and prescribed books)

Geography : Explain in detail major minerals found from the oceans. Write the names of important ocean routes and also explain use and impact of this route on the international trade.

Note : Home work to be done in the Homework note book.

Economics : Prepare a project on the effect of economic variables on the demand for a commodity in the market. The project must be made on the given guidelines :
a) Cover page   b) Acknowledgement   c) Index d) Content   e) Conclusion   f) Bibliography
The project must be handwritten and preferably be of 2500-3000 words. (The Economic Variables include income of the consumer, taste and preferences, prices of related goods etc).

Accounts : In the given two problems you are required to pass journal, prepare ledger and trial balance.

Q1. Following balances appeared in the books of Radhika Trades as on 1st April, 2017-

Assets : Cash Rs 8,000; Cash at Bank Rs 7,000; Stock Rs 30,000; Debtors : Rs 36,000 (Mohan Rs 10,000; Sohan Rs 12,000; Dinesh Rs 14,000); Furniture Rs 5,000; Building Rs 25,000.

Liabilities : Creditors – X Rs 5,000; Y Rs 6,000.

In April 2017 the following transactions took place :

2017		
April 2	Bought goods of the list price of Rs 6,000 from Khanna Brothers less 15% trade discount and 2% cash discount and paid 40% price at the same time.	
3	Received a draft from Mohan in full settlement and deposited it into Bank	9,750
5	Purchased goods from Suresh of the list price of Rs 8,000 at 20% trade discount and paid him by cheque.	
8	Sold goods and received a cheque	25,000
10	Deposited the above cheque into Bank	
12	Sohan deposited in our Bank A/c	4,000
16	Paid Income tax by cheque	5,600
20	Received a cheque from Sohan and sent to Bank	7,800
	Discount allowed	200
21	Withdrew from Bank- for office	2,000
	For private use	4,000
23	Sent a cheque to X in full settlement of his A/c	4,900
27	Cheque of Sohan returned by the bank as dishonoured.	
28	Dinesh was declared insolvent and a payment of 60 paise in a Rs received from his estate by a cheque	
30	Bank allowed Interest	350
	Paid for Rent by cheque	1,500
	Paid for travelling expenses by cheque	500

Q2. Following was the position of Harish and Co. as on 1st April 2017- Cash in Hand Rs 10,000; Cash in Bank Rs 16,800; Furniture Rs 8,000; Stock Rs 50,000; Debtors- Ram Rs 8,000; Shyam Rs 12,000; Creditors- Anil Rs 4,000; Sunil Rs 5,000. Following transactions took place during April, 2017 –

2017	
April 2	Received a cheque from Ran in full settlement of his account after deducting 5% cash discount.
4	Deposited the above cheque into Bank
5	Goods purchased for Rs 20,000 at 10% trade discount and 5% cash discount. Payment made by cheque.
6	Received a cheque form Shyam for Rs 6,860 and discount allowed to him Rs 140. Cheque deposited into the bank on the same day.
10	Cash paid to Ail after deducting 2% cash discount
15	Old furniture sold for Rs 800
16	Sold goods to Shiv Prashad of the list price of Rs 10,000 at a trade discount of 15%.
18	Shiv Prashad returned goods of the list price of Rs 1,000
20	Paid for furniture repairs to Bahadur Sing Rs 100
25	Received a cheque from Shiv Prashad after deducting 4% cahs discount. Cheque was deposited into bank
28	Bank charged Rs 50 for 'Bank Charges'.
30	Received Commission Rs 200.

Psychology : Project : A detained case study of unique and rare genetic and psychological disorders.
- The project should include both written as well as pictorial representation of the case.
- The project needs to be done in a thin inter leaf notebook.
  For example – Down Syndrome, Autism, Goldinhar Syndrome, Pfeiffer Syndrome, ADHD, Pitt – Hopkins Syndrome are amongst few topics.
- The students are requested do some research and explore vast expansion of disability and psychological deficits.

Note : Student need to submit holiday homework in Practical File.

Physical Education (Group 2 & Group 3)

1. Make a detailed study on any of two games from the given list :
   * Athletics/ Badminton/ Boxing/ Chess/ Judo/ Shooting/ Skating/ Swimming/ Taekwondo/ Tennis/ Aerobics/ Gymnastics/ Yoga/ Bocce
2. Prepare a write up along with picture on the following :
   * Winter Olympic Games
   * Paralympics

* Common Wealth Games
* SAARC Nation Games
* Asian Games
3. Prepare a detailed study on Adventure Sports with a specific illustration of following :
* Objectives of Adventure Sports
* Rock Climbing
* Trekking
* River Rafting
* Mountaineering
* Surfing
* Paragliding
* Safety Measures to be adopted while participating in Adventure Sports Activity

Business Studies : Project – I

Prepare a project work on any ONE of the following :

a) Visit to a Handicraft Unit

b) Visit to an Industry

c) Visit to a Wholesale Market(Vegetables, Fruits, Flowers, Grains, Garments)

d) Visit to a Departmental store

Project –II

Taking any one AIDS To TRADE, for example Indusrance taking into the following aspects (History of Insurance, Development of regulatory mechanism, Principles of Insurance, Insurance Companies in India, Careers in Insurance etc)

The project must be made on the given guidelines:

i) It must be handwritten and according to the format (CBSE guidelines)

ii) Preferably be of 2500-3000 words.

iii) It must be made neatly and presented in a project file.

Music : Tabla
1. Definitions : Grah, Jaati, Naad, Sangeet, Kala, Laya, Swar
2. Biographies : Pt. Anokhe Lal, Ustad Ahmedjaan Thirakwa, Ustad Allarakkha Khan
3. Gharanas : Banaras Gharana and Delhi Gharana
4. Classification of Indian Music Instruments and Natyashastra
5. Write down the Dugun, Tigun and Chaugun Layakari for following Taals with introduction :
a) Teen taal   b) Jhaptaal   c) Ektaal   d) Keherwataal

Note : Holiday Homework must be done in Project File

Music Vocal
1. Definitions : Nada, Shruti, Swar, Saptak, Lakshangeet, Thaat, Jaati, Raga, Laya, Taal and Swarmalika
2. Description of following Ragas : a) Bihag   b) Bhairavi   c) Jaunpuri   d) Bhimpalasi
3. Life Sketch : a) Pt. V.N. Bhatkhande   b) Pt. V.D. Paluskar
4. Musical elements in Natyashastra and Brihaddeshi
5. Write the Ekgun, Dugun and Chaugun Layakari of the following Taals (with introduction) :
a) Teentaal, Keherwa, Dadra, Jhaptal, Chautaal, Sultaal, Ektaal

Note : Holiday Homework must be done in Project File

Painting :
* Make 10 sketches with the help of black pen
Note : Half imperial Sheet ($^1/_2$ of full drawing sheet)
Sheet- Cartridge Sheet (Drawing sheet)

Vice-Principal.