THE ASIAN SCHOOL, DEHRADUN HOLIDAY HOMEWORK FOR SUMMER VACATION 2013 FOR CLASS XII

English:

Core - Read the following chapters and write the review of each:-

(a) Flamingo – (i) Rattrap (ii) Indigo (b) Vistas – (i) On the face of IT Novel (c) (i) Chapter 6-9, Read each lesson and write them in condensed form neatly and to the point.

Language: (a) 1 Comprehension of unseen passage (b) 2 Notes making passage (c) Write articles on the following topics:- (i) The problem of Brain Drain, (ii) Quit smoking not life (iii) Importance of newspapers in modern life.

News Paper Report: You are Mandakini/Madan a staff reporter of the Times of India you have been asked to cover the incident of a daylight robbery when the inmates were present in a house in the outskirts of Delhi. Write a report in about 100-125 words.

Mathematics:

Solve the following questions from the Book Mathematics in XII Vol (I) by S. Chand (Publisher) Note: Make a separate note book. Determinant by Properties:-Page – 177 eg:- 3, 6, 8, 10, 11, 13(b), 16, 18, 24, 26, 30, 33. Ex-5.3 Q:- 8, 6, 10, 11, 13. Page-201 eg:- 2. Page-232 Q:- 5, 6, 9, 11(b). Ex – 6.2 Q:- 3, 11, 13. Page-313 eg:- 7, 12. Ex-12.1:- Q- 8, 11, 13, 14, 18, 21, 29, 31. Ex-12.2:- Q- 1, 4, 5, 8, 9, 12, 13, 15. Ex-12.3:- Q- 1, 4, 5, 6, 10, 11, 12. Ex-12.4:- Q- 2, 3, 5, 7, 8, 11. Ex-12.5:- Q- 3, 4, 6, 7, 8, 10, 11, 13, 14, 16, 18, 21, 23, 24, 25, 26, 27, 30. Page-537 eg:- 8, 9, 10, 11, 15, 17, 19. Ex-12.7:- Q- 5, 10, 14, 16, 12, 18, 23, 25, 27, 30, 33, 36, 39. Ex-12.8:- Q- 1, 3, 4, 7, 9, 11, 14, 15. Ex-12.10:- Q- 6, 8, 10, 11, 14, 16. Page-eg:- 9, 11, 12, 16. Ex-13.1:- Q- 12, 4, 17, 21, 22, 23, 25, 27. Ex-13.2:- Q- 4, 7. Page-604 Q- 4, 6, Ex-14.1:- Q - 4, 8, 16, 21, 25. Ex-14.2:- Q- 4, 5, 8. Ex-15.2:- Q- 1, 5, 6, 7, 11, 12, 14, 15. Ex-15.1:- Q- 7, 12, 14. Ex-16.2:- Q- 7, 8, 14, 16, 22. Ex-17.1:- Q- 1, 4, 8, 11 Ex-17.2:- Q- 3, 4, 8, 9, 11, 14, 16, 19. Page-745 Q:- 2, 4, 6. Ex-18.1:- Q- 6, 10, 14, 20, 21, 24, 27. Ex-19.3:- Q- 4, 8, 9, 10. Ex-19.4:- Q- 7 Page-840:- eg- 5, 6, 7, 8, 9, 10, 11, 13, 14, 15, 17, 18, 20, 22, 23, 26.

History:

Project- Topic: how do the travelers accounts help historians reconstruct the happenings in the past.

Length- No to exceed 6 written sides

Must Include - Maps, Tables, Flow charts, Pictures.

Reference to any 3 travelers of your choice.

* Name of country - origin (home), * Effects of their written records.

Economics:

- * Do all the Micro economics questions of last five years including numerical also in your home work register from Dinesh (K.L.Verma).
- * Do all the value based questions from all chapter of Micro Economics from DInesh (K.L.Verma).

Physics:

Do any one of the following:-

Prepare a project report on any one important invention of 20th century. In your project mention the following points-1. Principle 2. Brief working 3. Field in which it is used 4. Impact of this invention on the society. (Paste the pictures also) Source : Newspaper, NCERT book, Google, Wikipedia.

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 Prepare a project on any one of the following topics.

 1. Capacitors
 2. Super Conductivity
 3. Transformer
 4. Compound Microscope
 5. Astronautical Teleschope

 6. Transistors
 7. Communication system
 8. Artificial Satellite
 9. Earth's Magnetism (Paste Some Photogrphs)

 Source:- NCERT Text book, Google, Wikipedia.
 9.

Chemistry :

Prepare a comprehensive investigatory project report on any of the following topics as per CBSE syllabus. (a) Project on measuring solubility of saturated solutions (b) Amount of acetic acid in vinegar (c) Determination of contents of cold drink (e) Preparation of Potash alum (f) Study of diffusion of solids in liquid. (g) Variation of conductance of electrolytes (h) Foaming capacity of soap (i) To determine the quantity of Casein in Milk. (j) To determine the quantity of caffeine in Tea sample (k) Preparation of Soya bean Milk (l) To study the constituents of Alloys (m) To study the change in EMF of a Daniel cell. (n) Adulterants in food. (o) Setting of cement (p) Spectroscopy.

Biology:

Instructions: (i) The project report should be handwritten and should be presented in a neatly bound simple folder. (ii) The total length of the project report should not be more than 25-30 written pages of A-4 size. (iii) The project report should have the relevant photographs

or original drawings & illustrations the project report should be presented in the following order-

* Cover Page showing project title, student information.

- * Acknowledgement.
- * List of contents with page numbers.
- * Chapters with relevant headings.
- * Summary and conclusion based on findings.
- * Bibliography.
- * All the photographs and sketches should be labeled and acknowledged
- Project: Make an investigatory project report on any one of the following topics-

DNA finger printing / Test-tube babies/ Female foecticide/ Maintenance of Aquarium / Ascariasis/ Gene therapy/ Biodiversity and its conservation/ Animal cloning/ Drug & Alcohol abuse/ Plant breeding/ Animal breeding.

Account: Do the following Questions from T.S. Grewal.

(a) Page – 7.114 Q No. 12 to Q No. 117

(b) Page - S.108 Q No.1 to Q No. 55

Physical Education: (GP - 2)

- 1. Make a detail report in Doping including following hints:-
 - (a) Meaning & types of Doping (b) Prohibited substances & methods (c) Testing in competition & out of competition (d) Side effects of prohibited substances.
- 2. Management of Injuries.
 - (a) Common sports injuries of soft Tissues (b) First Aid in common sports injuries (c) Learn its Types & application in

sports.

(GP – 3)

- (a) Equilibrium Dynamic & static & center of Gravity its application in sports
- (b) Force-centrifuged & centripetal & its application in sports.
- (c) A story on Health & fitness activities medicine/ Thera Tube/ Pilates/ Rope shipping.

Hindi:

- 1) अपनी पुस्तक के पाँच अपठित गद्यांश कीजिए।
- 2) अपनी पुस्तक से दस अपठित पद्यांश कीजिए।
- 3) अपने विंद्यालय के वार्षिकोत्सव पर एक फीचर लिखिए।
- 4) विदयालय में नैतिक शिक्षा विषय पर एक लेख लिखिए।

Psychology:

(a) Do one case study as explained on any extreme cases. (b) Collect relevant data and theory for practical 1 and practical 2. (c) complete all the given questions and answers (self assessment questions) given at the end of every chapter(No. 1,2,3).

Painting:

Instructions: a) Use 2b, 4b & 5b Pencils

b) Use half imperial sheets and

Draw 1. 30 still life use pencil shading.

Computer:

ASSIGNMENT:

Guide lines :

- Compile and run the following programs
- Language : C++
- Write the programs in Practical file

• Note down the Output of each programme in front of the programme coding

Question 1 Define a class student with the following specification

	e renering specification
Private members of class stud	lent
admno	integer
sname	20 character
eng. math, science	float
total	float
ctotal()	a function to calculate eng + math + science with float return type.
Public member function of cla	ass student
Takedata()	Function to accept values for admno, sname, eng, science
	and invoke ctotal() to calculate total.
Showdata()	Function to display all the data members on the screen.

Question 2	Define a class batsman with th Private members:	ne following specifications:
	bcode	4 digits code number
	bname	20 characters
	innings, notout, runs	integer type
	batavg	it is calculated according to the formula
	0	batavg =runs/(innings-notout)
	calcavg()	Function to compute batave
	Public members:	
	readdata()	Function to accept value from bcode, name, innings,
		notout and invoke the function calcavg()
	displaydata()	Function to display the data members on the screen.
Question 3	Define a class TEST in C++ with	following description:
Question 5	Private Members	riolowing description.
	TestCode of type integer	
	Description of type integer	
	NoCandidate of type integer	
	CenterBead (number of center	rs required) of type integer
	A member function CALCNTR) to calculate and return the number of centers as
	(NoCandidates/100+1)	
	(10000110100000) 100001	
Public Members		
	- A function SCHEDULE() to all	ow user to enter values for TestCode, Description, NoCandidate & Call function CALCNTR() to
	calculate the number of Centr	es
	- A function DISPIESI() to allo	w user to view the content of all the data members
Ouestion 4	Define a class in C++ with follo	wing description:
	Private Members	
	A data member Flight number	of type integer
	A data member Destination of	type string
	A data member Distance of ty	pefloat
	A data member Fuel of type fl	oat
	A member function CALFUEL(to calculate the value of Fuel as per the following criteria
	Distance	Fuel
	<=1000	500
	more than 1000 and <=2000	1100
	more than 2000	2200
	Public Members	
	A function FEEDINFO() to allow	v user to enter values for Flight Number, Destination, Distance & call function CALFUEL() to
	calculate the quantity of Fuel	
	A function SHOWINFO() to all	ow user to view the content of all the data members
Quantizer F		
Question 5	Define a class BOOK with the i	ollowing specifications :
	Private members of the class	interest type
	BOOKING	20 shows store
	BOOKTITLE	20 characters
		A function to colculate the total cost for N number of
	TOTAL_COST()	A function to calculate the total cost for N humber of
	Bublic mombars of the class P	OCK are
	INDUIT()	function to read BOOK NO BOOKTITIE DRICE
		function to ask the user to input the number of conjecto he
	FORCHASE()	nurchased It invokes TOTAL COST() and prints the total
		cost to be paid by the user
	Note : You are also required to	a give detailed function definitions
	Note . Tou are also required to	give detailed function definitions.
Question 6	Define a class REPORT with th	e following specification:
	Private members :	
	auno 4 digit admission nu	mper
	name 20 characters	
	marks an array of 5 floatin	g point values
	average average marks obta	
	GETAVG() a function to compu	ite the average obtained in five subject
		a accontivation for adaption marks towake
	the function GETAVG()	ט מכנכיףג אמועבא וטר מעווט, וומוווב, ווומו אא. ווועטאפ

DISPLAYINFO() function to display all data members of report on the screen.You should give function definitions.

	CONSTRUCTOR AND DESTRUCTOR	
Question 1	Answer the questions (i) and (ii) after going through the following class:	
	class Seminar	
	{	
	int Time:	
	nutrine,	
	Seminar() //Function 1	
	{	
	Time=30; cout<<"Seminar starts now"< <endl;< th=""><th></th></endl;<>	
	}	
	void Lecture() //Function 2	
	{	
	l	
	Seminar(int Duration) //Function 3	
	{	
	Time=Duration; cout<<"Seminar starts now"< <endl;< th=""><th></th></endl;<>	
	}	
	- Seminar() //Eunction 4	
	// ///////////////////////////////////	
	l	
	}	
	};	
	i) In Object Oriented Programming, what is Function 4 referred as and when does it get invoked/called?	
	ii) In Object Oriented Programming, which concept is illustrated by Function 1 and Function 3 together? Write	e an
	example illustrating the calls for these functions	
Question 2	A new of the substitute (i) and (ii) ofter source through the following class :	
Question 2	Answer the questions (i) and (ii) after going through the following class :	
	class Exam	
	{	
	int Marks;	
	char Subject[20];	
	public:	
	Exam () //Eunction 1	
	Marks = 0;	
	strcpy (Subject,"Computer");	
	}	
	Exam(char S[]) //Function 2	
	{	
	Marks = 0	
	strony(Subject S):	
	Exam(int M) //Function 3	
	{	
	Marks = M;	
	strcpy(Subject,"Computer");	
	}	
	Fram(char S[] int M) //Eurotion 4	
	Marks = M;	
	strcpy (Subject,S);	
	}	
	};	
	(i) Write statements in C++ that would execute Function 3 and Function 4 of class Exam.	
	(ii) Which feature of Object Oriented Programming is demonstrated using Function 1 Function 2 Function 3	and
	(i) this is the above class Evan 2	2110
Question 3	Answer the questions (i) and (ii) after going through the following program:	

{ int Time;

class Match

public: Match() //Function 1 { Time=0; cout<<"Match commences"<<endl; } void Details() //Function 2 { cout<<"Inter Section Basketball Match"<<end1; } Match(int Duration) //Function 3 { Time=Duration; cout<<"Another Match begins now"<<endl; } Match(Match & M) //Function 4 { Time=M.Duration; cout<<"Like Previous Match "<<endl; } }; i) Which category of constructor - Function 4 belongs to and what is the purpose of using it? ii) Write statements that would call the member Functions 1 and 3

Question 4 Define a class TravelPlan in C++ with the following descriptions : **Private Members:** PlanCode of type long Place of type character array (string) Number_of_travellers of type integer Number_of_buses of type integer Public Members: A constructor to assign initial values of Plan Code as 1001, Place as "Agra", Number_of_travellers as 5, Number_of_buses as 1 A function NewPlan() which allows user to enter PlanCode, Place and Number_of_travellers. Also, assign the value of Number_of_buses as per the following conditions : Number of travellers Number of buses Less than 20 1 Equal to or more than 20 and less than 40 2 Equal to 40 or more than 40 3 A function ShowPlan() to display the content of all the data members on screen.

Question 1

A common place to buy candy is from a machine. The machine sells candies, chips, gum, and cookies. You have been asked to write a program for this candy machine.

The program should do the following:

- 1. Show the customer the different products sold by the candy machine.
- 2. Let the customer make the selection.
- 3. Show the customer the cost of the item selected.
- 4. Accept money from the customer.
- 5. Release the item.

The machine has two main components: a built-in cash register and several dispensers to hold and release the products.

Define class cashRegister in C++ with the following descriptions : Private Members:

cashOnHand of type integer

Public Members:

- A default constructor cashRegister() sets the cash in the register to 500.
- A constructor cashRegister(int) sets the cash in the register to a specific amount.
- A function getCurrentBalance() which returns value of cashOnHand
- A function acceptAmount(int) to receive the amount deposited by the customer and update the amount in the register

Define class dispenserType in C++ with the following descriptions : Private Members:

- numberOfItems of type integer
- cost of type integer

Public Members:

- A default constructor dispenserType () sets the cost and number of items in the dispenser to 50 and 50.
- A constructor dispenserType (int,int) sets the cost and number of items in the dispenser to the values specified by the user.
- A function getNoOfItems() to return the value of numberOfItems.
- A function getCost() to return the value of cost.
- A function makeSale() to reduce the number of items by 1.

When the program executes, it must do the following:

- 1. Show the different products sold by the candy machine.
- 2. Show how to select a particular product.

Once the user has made the appropriate selection, the candy machine must act accordingly. If the user has opted to buy a product and that product is available, the candy machine should show the cost of the product and ask the user to deposit the money. If the amount deposited is at least the cost of the item, the candy machine should sell the item and display an appropriate message.

Divide this program into three functions: showSelection, sellProduct, and main.

The function sellProduct must have access to the dispenser holding the product (to decrement the number of items in the dispenser by 1 and to show the cost of the item) as well as the cash register (to update the cash). Therefore, this function has two parameters: one corresponding to the dispenser and the other corresponding to the cash register.

File Handling - Binary File

 Question 1
 Assuming the class EMPLOYEE given below, write functions in C++ to perform following:

(i) Write the objects of EMPLOYEE to a binary file.

(ii) Read the objects of EMPLOYEE from binary file and display them on screen.

}

class EMPLOYEE



Question 3 Given a binary file STUDENT.DAT, containing records of the following class Student type class Student { char S_Admno[IO]; //Admission number of student char S_Name[30]; //Name of student int Percentage; //Marks Percentage of student

```
public:
         void EnterData()
         {
                   gets(S_Admno);
                   gets(S_Name);
                   cin>>Percentage;
         }
         void DisplayData()
         {
                   cout<<setw(12)<<S_Admno;</pre>
                   cout<<setw(32)<<S_Name;
                   cout<<setw(3)<<Percentage<<endl;
         }
         int ReturnPercentage()
         {return Percentage;}
};
```

Write a function in C++, that would read contents of file STUDENT.DAT and display the details of those Students whose Percentage is above 75.

Question 4 Observe the program segment given below carefully and fill the blanks marked as Statement 1 and Statement 2 using seekg() and tellg() functions for performing the required task.

```
#include <fstream.h>
                   class Employee
                   {
                             int Eno;
                             char Ename[20];
                   public:
                             //Function to count the total number of records
                             int Countrec();
                   };
                   int Item::Countrec()
                   {
                             fstream File;
                             File.open("EMP.DAT", ios::binary | ios::in);
                                                       __//Statement 1
                             int Bytes =
                                                         //Statement 2
                             int Count = Bytes / sizeof(Item);
                             File.close();
                             return Count;
                   }
Question 5
                   Write a function in C++ to add new objects at the bottom of a binary file
                   "STUDENT.DAT", assuming the binary file is containing the objects of the
                   following class.
                   class STUD
                   {
                             int Rno;
                             char Name[20];
                   public:
                             void Enter()
                             {cin>>Rno;gets(Name);}
                             void Display()
                             {cout<<Rno<<Name<<endl;}
                   };
Question 6
                   Observe the program segment given below carefully and fill the blanks marked as Statement 1 and Statement 2 using
                   seekp() and seekg() functions for performing the required task.
                   #include <fstream.h>
                   class Item
                   {
                             int Ino;
                             char Item[20];
                   public:
                             //Function to search and display the content from a particular
```

```
//record number
          void Search(int );
          //Function to modify the content of a particular record number
          void Modify(int);
};
void Item::Search(int RecNo)
{
          fstream File;
          File.open("STOCK.DAT",ios::binary|ios::in);
                                     //Statement 1
          File.read((char*)this,sizeof(Item));
          cout<<Ino<<"==>"<<Item<<endl;
          File.close();
}
void Item::Modify(int RecNo)
{
          fstream File;
          File.open("STOCK.DAT",ios::binary|ios::in|ios::out);
          cout>>Ino;
          cin.getline(Item,20);
                                     //Statement 2
          File.write((char*)this,sizeof(Item));
          File.close();
}
```

Principal

Vice-Principal

SECTION- A (**Project-1**)

Indicate how often each of the statements below is descriptive of you. <u>Click on</u> one letter for each statement:

O indicates "I often feel this way"

S indicates "I sometimes feel this way"

R indicates "I rarely feel this way"

N indicates "I never feel this way"

1. How often do you feel unhappy doing so many things alone?	0	S	R	N
2. How often do you feel you have nobody to talk to?	0	S	R	N
3. How often do you feel you cannot tolerate being so alone?	0	S	R	N
4. How often do you feel as if nobody really understands you?	0	S	R	N
5. How often do you find yourself waiting for people to call or write?	0	S	R	N
6. How often do you feel completely alone?	0	S	R	N
7. How often do you feel you are unable to reach out and communicate with those around you?	0	S	R	N
8. How often do you feel starved for company?	0	S	R	N
9. How often do you feel it is difficult for you to make friends?	0	S	R	N
10. How often do you feel shut out and excluded by others?	0	S	R	N

SECTION- B (Project-1)

1= strongly agree 2=agree 3=disagree 4=strongly disagree 1. I feel I am a person of worth, at least on an equal basis with others. 2. I feel that I have a number of good qualities. 3. All in all, I am inclined to feel that I am a failure. 4. I am able to do things as well as most people. 5. I feel I do not have much to be proud of. 6. I take a positive attitude towards myself. 7. On the whole, I am satisfied with myself. 8. I wish I could have more respect for myself. 9. I certainly feel useless at times. 10. At times, I think I am no good at all.

SECTION-C (Project-1)

1) I tend to keep in the background at social events.
2) I prefer to work with others rather than alone.
3) I get embarrassed easily.
4) I generally tell others how I feel regardless of how they may take it.
5) I really try to avoid situations in which I must speak to a group.
6) I am strongly motivated by the approval or interest of others.
7) I often daydream.
8) I find it easy to start conversations with strangers.
9) I find it difficult to make friends of the opposite sex.
10) I particularly enjoy meeting people who know their way around the social scene.
11) I would rather read a good book or watch television than go out to a movie.
12) I would rather work as a salesperson than as a librarian.
13) I spend a lot of time philosophizing and thinking about my ideas.
14) I prefer action to thought and reflection.
15) I am often uncomfortable in conversations with strangers.
16) I am mainly interested in activities and ideas that are practical.
17) I would prefer visiting an art gallery over attending a sporting event.
18) I enjoy open competition in sports, games, and school.
19) I make my decisions by reason more than by impulse or emotion.
20) I have to admit that I enjoy talking about myself to others.
21) I like to lose myself in my work.
22) I sometimes get into arguments with people I do not know well.
23) I am very selective about who my friends are.
24) I make decisions quickly and stick to them.

- 1. Sex refers to?
 - a) whether you are born male or female
 - b) the thing my parents did to create me
 - c) how you act as a result of being male or female
- 2. Gender refers to?
 - a) whether you are male or female
 - b) your behaviour as either male or female
 - c) I am really not sure
- 3. In order to dress formally, men should wear suits and ties and women should wear dresses or kurta shlawar
 - a) strongly agree
 - b) agree
 - c) strongly disagree
- 4. Girls with short hair or boys with long hair?
 - a) sure, who cares
 - b) are they 'gay' and 'hippies' respectively?
 - c) suppose that's alright
- 5. Girls football is played by
 - a) Lesbian athletes
 - b) female athletes
 - c) 'cool' girls
- 6. Boys who dance Ballet or figure skate are
 - a) Gay
 - b) in tune with their female side
 - c) 'cool' and talented individuals
- 7. Girls and boys with equal ability are able to compete at any assigned task
 - a) true
 - b) false
 - c) not sure
- 8. If 7 year old **son** chooses to wear a **pink** shirt should he be
 - a)encourage him to wear it
 - b) insist that pink is for girls and change him
 - c) reluctantly allow him to wear a pink shirt thinking its just a phase.
- 9. Where do we learn all these gender stereotyping from
 - a) family
 - b) friends
 - c) media
- 10. Generally speaking do you accept homosexuals, bisexuals and transgendered people as part of our diverse world?
 - a) hell no, they are deviants
 - b) I will tolerate difference or at least be civil
 - c) I am one of the above mentioned... and I love me

1= strongly agree

2=agree

3=disagree

4=strongly disagree

1. I feel I am a person of worth, at least on an equal basis with others.

1 2 3 4

2. I feel that I have a number of good qualities.

1 2 3 4

3. All in all, I am inclined to feel that I am a failure.

1 2 3 4

4. I am able to do things as well as most people.

1 2 3 4

5. I feel I do not have much to be proud of.

1 2 3 4

6. I take a positive attitude towards myself.

1 2 3 4

7. On the whole, I am satisfied with myself.

1 2 3 4

8. I wish I could have more respect for myself.

1 2 3 4

9. I certainly feel useless at times.

1 2 3 4

10. At times, I think I am no good at all.

1 2 3 4

SECTION-C (Project-2)

1) I tend to keep in the background at social events.
2) I prefer to work with others rather than alone.
3) I get embarrassed easily.
4) I generally tell others how I feel regardless of how they may take it.
5) I really try to avoid situations in which I must speak to a group.
6) I am strongly motivated by the approval or interest of others.
7) I often daydream.
8) I find it easy to start conversations with strangers.
9) I find it difficult to make friends of the opposite sex.
10) I particularly enjoy meeting people who know their way around the social scene.
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19) I make my decisions by reason more than by impulse or emotion.
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22) I sometimes get into arguments with people I do not know well.
23) I am very selective about who my friends are.
24) I make decisions quickly and stick to them.

CLASS XII - GEOGRAPHY HOLIDAY HOMEWORK

FIELD SURVEY – A CASE STUDY

TOPICS-

- 1) POVERTY
- 2) Ground water changes.
- 3) Land use and Land use changes
- 4) Soil Degradation

Choose any one topic for field survey and collect the relevant information and data related to the topic, including factor effects, causes and outcome of those factors. Write down all the information in punch papers.