THE SAGAR SCHOOL

HOLIDAY HOMEWORK 2017-18
Class/Section: XII-C

General Instructions:

- Holiday Homework of all subjects to be done in **<u>Stick File</u>** (only).
- **Practical subjects need to be given only AISSCE Board Projects**
- The areas to be covered are suggested below. You can of course use your creativity and innovation for new ideas too!
- Credit will be awarded to original photographs/ drawings, illustrations and creative use of materials.
- Holiday Homework needs to be submitted on 10th July 2017.
- Holiday Homework needs to be developed and presented in this order:
  - ➢ Cover page showing title, student information, school and academic year.
  - ➢ List of contents with page numbers.
  - ➢ The last page should have Bibliography/ Sources of information from where you have collected your information.

SUBJECT: ENGLISH

1. Read the novel, The Invisible man and write a 300- 400 word book review covering the following aspects: Plot and theme, main characters, setting, language and vocabulary and any other elements which make the story interesting.

2. There are a lot of summer camps mushrooming in every city and locality. Children line up to learn dancing, singing, a new language, swimming and many more activities. Interview an instructor/teacher or organizer of such a camp and then write an article on the use, need and importance of these summer camps. Cover the financial side too. You will also interview a few parents and students who are enrolled in these camps and get their side of the story. Write a 200 word article based on these interactions. Give details of the camp along with the name and address, student strength and response of the locals.

SUBJECT: MATHEMATICS

Solve the set of questions based on the topics from NCERT book.

TOPIC: INVERSE TRIGONOMERY FUNCTIONS

EX -2.1	**Q** 1, 9, 11
EX -2.2	**Q** 3, 13, 19
MISC EX.	**Q** 6, 8, 13, 14, 16

TOPIC: MATRICES

EX -3.1	**Q** 3, 5, 7
EX -3.3	**Q** 10, 12
EX -3.4	**Q** 12, 15
MISC. EX.	**Q** 3, 7, 11

TOPIC: DETERMINANTS

EX -4.2	**Q** 5, 13, 14
EX -4.3	**Q** 3, 5
EX -4.6	**Q** 11, 13, 15
MISC. EX.	**Q** 4, 11, 16

TOPIC: DIFFRENTIATION

EX -5.1	**Q** 6, 24, 30
EX -5.3	**Q** 6, 11, 15
EX -5.4	**Q** 2, 4, 8
EX -5.5	**Q** 7, 12, 15
EX -5.6	**Q** 5, 6, 10
EX -5.7	**Q** 14, 17
MISC. EX.	**Q** 13, 17, 23

SUBJECT: ECONOMICS

You need to follow the guidelines listed below to complete this project:
   a) Explanation of the concept:
   b) Meaning and Definition
   c) Application of the concept
   d) Diagrammatic Explanation (if any)
   e) Numerical Explanation related to the concept etc. (if any)
   f) Students' own views/perception/ opinion and learning from the topic.

Suggested List of topics [ANY ONE TOPIC]

- Price Determination
- Opportunity Cost
- Demand and its determinants
- Production –Returns to a Factor
- Monopoly
- Monopolistic Competition
- Money Multiplier
- Government Budget & its Components
- Exchange Rate Systems
- Balance of payments

- Price Discrimination
- Production Possibility Curve
- Supply and its determinants
- Cost function and Cost Curves
- Oligopoly
- Credit Creation
- Central Bank and its functions
- Budget deficit
- Foreign Exchange Markets

N.B: Make your report investigatory; do the research work on the policies and the steps that are implemented in the recent years; collect data on the budgetary policies taken up by the government; give examples of local markets, if any; give examples of the changes within your society; take in as many practical examples that you can to make your project/ report varied but be practical.

GENERAL GUIDELINES:
1. The total length of the project will be of 25 to 30 pages.
2. The project should be handwritten.
3. The project should be presented in a neat folder.
4. The project report should be developed in the following sequence-
   (a) Cover page should include the title of the Project, student information, school and year.

(b) List of contents.
(c) Acknowledgements and preface (acknowledging the institution, the places visited and the persons who have helped.
(d) Introduction.
(e) Topic with suitable heading.
(f) Planning and activities done during the project, if any.
(g) Observations and findings of the visit.
(h) Conclusions (summarized suggestions or findings, future scope of study).
(i) Photographs (if any).
(j) Bibliography

SUBJECT: HISTORY

A GROUP PROJECT (AS PER THE DIRECTION OF CBSE) FOR AISSCE 2018 IS TO BE DONE. THE CLASS HAS BEEN DIVIDED IN THREE GROUPS AND TASKS ARE ASSIGNED AGAINST EVERY STUDENT.

GROUP 1. TOPIC- BUDDHISM (GROUP COORDINATOR -RIYA DANI)

MEMBER STUDENTS	TASK ASSIGNED
RIYA	MANUSCRIPT PREPARATION
KANIKA	RESEARCH WORK+ COVER PAGE DESIGN
AKULA	MAPS & BORDER DESIGN
SURAJ	MODEL PREPERATION+ ART WORK

GROUP 2. TOPIC –HARAPPAN CIVILIZATION (GROUP COORDINATOR- UGYEN LACHENPA)

MEMBER STUDENTS	TASK ASSIGNED
UGYEN	RESEARCH WORK + MODEL
KARMA	MANUSCRIPT PREPARATION
RAHUL	MAP WORK+ MATERIAL PROCUREMENT
GAURAV	DESIGNING WORK

GROUP 3. TOPIC –REVOLT OF 1857 (GROUP COORDINATOR- KEVIZAIYE)

MEMBER STUDENTS	TASK ASSIGNED
KEVIZAIYE	RESEARCH WORK +MAP
BANGKIN	MANUSCRIPT PREPARATION
DORJI	DESIGNING WORK
KARTIK	MODEL MAKING
EASTTO	MATERIAL PROCUREMENT

THE PROJECT WILL BE DIVIDED IN UNDER GIVEN SEGMENTS
1. INDEX
2. ACKNOWLEDGEMENT
3. SYNOPSIS
4. CONTENT
5. CONCLUSION
6. BIBLIOGRAPHY

NOTE – FINAL ASSEMBLING OF THE PROJECT WILL BE DONE AFTER THE STUDENTS HAVE REPORTED BACK WHICH WOULD REQUIRE APPROXIMATELY TWO WEEKS TIME.

SUBJECT: GEOGRAPHY

You need to write the topics prescribed as given in the practical work in the practical sheet and draw diagrams on drawing sheet from Geography book -II.

TOPIC:
CH-2: MEASURES OF CENTARL TENDANCY;
- Mean
- Mode
- Median
- Rank correlation.

CH-4: USES OF COMPUTER IN DATA PROCESSING
- Functions and uses of computers.
- Hardware and software.
- Data processing
- Construction of graphs

CH-6: SPATIAL INFORMATION TECHNOLOGY
- GIS
- GPS
- Remote sensing.
- Raster and Vector data.

THE PROJECT WILL BE DIVIDED IN UNDER GIVEN SEGMENTS

1. INDEX   2. ACKNOWLEDGEMENT   3.CONTENT

SUBJECT: SOCIOLOGY

This summer, conduct a survey to understand the society and its various issues/concerns; which are responsible for social changes in our society from 1990-2017 on the given topics-

a) Homosexuality- crucial warning to our society.
b) Challenges a working women faces in our society.
c) Youth addiction to Alcohol – Causes and Concern.

GUIDELINES TO BE FOLLOWED-
1. Interact the following age group people:
   a. Age Group 20-35
   b. Age Group 35-55
2- Questionnaire for the survey-
   A- Homosexuality- crucial warning to our society.
   (i)   Are you aware of the term 'homosexuality'?
   (ii)   How the society is getting affected by homosexuality?
   (iii) Role of government to spread awareness in society.
   (iv) What kind of changes you see in society, ever since the LGBT matter has come out?
   (v)   Are you comfortable with 'homosexuals', whenever you come across?

B- Challenges a working women faces in our society.
   (i)   What kind of problems you generally face in work areas?
   (ii) What kind of action you take against those who are responsible?
   (iii) You face problems because _____
   (iv) How often you face such problems in your office?
   (v)   Do these problems or challenges bother you in your personal life also?

C- Youth addiction to Alcohol – Causes and Concern.
   (i)   Why is our youth getting attracted towards alcoholism?
   (ii) What are the factors responsible for their addiction?
   (iii) What properties in drugs make them addicting?
   (iv) How can you help someone if they are on drugs?
   (v)   Why do some people become addicted, while others don't?

GENERAL GUIDELINES:
1- Introduction
2- Aims/Objectives
3- Methodology: Qualitative and Quantitative Approach
4- Tools and Techniques:
   a) Collection of data/ Sample (15 Respondents)
   (i) Primary Data: Questionnaire or Case study Method
   (ii) Secondary Data: Research journals, Newspaper, Magazines etc.
   b) Area/Universe
5- Facts and Findings
6- Conclusion
7- References and Bibliography

SUBJECT: PSYCHOLOGY

Q1. Complete the written work of Lab Manual for Board Practical Exam during this summer vacations.
The following practical to be done:
   1. DBDA
   2. 16 PF
   3. Adjustment Inventory
   4. Eysenck Personality Inventory

GUIDELINES:
For each practical test mentioned:
   - AIM
   - MATERIAL USED
   - DESCRIPTION OF THE TEST
   - PROCEDURE OF CONDUCTION
   - DETAILS OF YOUR SUBJECT
   - RESULT/SCORING
   - CONCLUSION

Q2. Make the flow chart for various mental disorders along with mentioning their symptoms in the notebooks.

SUBJECT: POL. SC.

Write a detailed report about India's relations with the following countries:-
   1. China   2. Bangladesh
   3. Nepal   4. Pakistan

SUBJECT: COMPUTER SCIENCE

1. Write an interactive C++ program to take two single dimensional arrays of integers and merge them into a single dimensional array, excluding the common elements of both the arrays.

2. Write an interactive program in C++ language to create an application program which generates the telephone bills. It stores various details of users Telephone Number, Name, Address, No. of calls, local or STD/ISD call. Compute the amount to be paid if the charges per local call is Rs. 2/- and for STD/ISD call is Rs. 5/-. It should have feature of searching the customer records using the telephone number. The application should be designed user friendly.

3. Write an interactive C++ program to Program to enter velocity, acceleration and time and print final velocity using the formula : $v = u + a * t$

4. Write an interactive program to count the number of words and characters in a sentence entered by a user

5. Write an interactive program to identify if an input is a symbol, digit or character.

6. Write an interactive Program to enter a sentence and output the number of uppercase & lowercase consonants, uppercase & lowercase vowels in sentence.

7. Write an interactive Program to find the sum of either of the diagonals of a 4 x 4 matrix.

8. Write an interactive C++ program using Structures to calculate the total and average of scores of a selected student. The program should prompt the student to input the stu_id. This stu_id is checked against the stu-ids' and make sure it really exists. Calculate the total and average, if the scores in assignemnt1 (out of 10 marks), assignment2 (out of 10 marks), mid-term score (out of 30 marks), and final score (out of 50 marks) are given.

9. Write an interactive C++ program to display a table that represents a Pascal triangle of any size. Hint: In Pascal triangle, the first and the second rows are set to 1. Each element of the triangle (from the third row downward) is the sum of the element directly above it and the element to the left of the element directly above it. See the below given example Pascal Triangle of size=5:

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1
1 1
1 2 1
1 3 3 1
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10.Write an interactive program in C++ language to create an application similar to "NOTEPAD". Write a program, mynotepad.cpp, which reads words from any file having extension ".txt" and displays each word on a line by itself. A word is defined as any sequence of characters separated by a blank, a tab, or a newline. Note that this definition for a word considers punctuation as part of the word. This program should have features like cut, copy, paste, write and search. The application should be designed user-friendly.

SUBJECT: PAINTING

Prepare two thematic painting in half imperial sized sheet based on daily life subjects and color it in a balanced color scheme .

SUBJECT: PHYSICAL EDUCATION

The following is need to be done in the practical record file (Prescribed by the CBSE) :

1. Labelled diagram of field & equipment Rules, Terminologies & Skills of anyone of these team games – Basketball / Football / Volleyball.
2. Any two famous Indian players of that game (One male & one female)

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