Summer Break Assignment

English

Holiday Homework-2017
Class 11CIE

Read any four short stories or classics from the website named
http://www.classicreader.com/
and then try to write a short analysis of about 300 words on any 8 paragraphs from the four pieces that you have read. Do it in the English note book itself.

MATHS

XI CIE

Activity I

Investigate whether reaction times are different when a person uses only information from one 'side' of their body.

1. Choose a person and instruct him/her to close his/her left eye. Against a wall hold it ruler pointing vertically downwards with the 0 cm mark at the bottom and ask the person to place the index finger of his/her right hand aligned with this 0 cm mark. Explain that you will let go of the ruler without wanting, and that the person must try to pin it against the wall using the index finger of their right hand. Measure and record the distance dropped.

2. Repeat this for, say, 20 persons.

3. Take a further 20 persons and carry out the experiment again for each of these persons but for this second set of 20 make them close their right eye and use their left hand.

4. Draw a Stem and Leaf diagram for both sets of data and compare the distributions,

5. Draw two histograms and use these to compare the distributions,

6. Do persons seem to react more quickly using their right side than they do using their left side?

7. Are persons more erratic when using their left side?

8. How does the fact that some people are naturally left-handed affect the results?

9. Would it be more appropriate to investigate 'dominant' side versus 'non-dominant' side rather than left versus right?

10. Calculate the mean and median for each set of data. Which average is more appropriate.

Activity II

1. Place twenty different small objects on a tray, for example a coin, a pebble and so on. Show the tray to a sample of students for one minute and then cover the tray. Give the students five minutes to write down as many objects as they can remember.

2. Type a list of the same objects on a sheet of paper. Allow each of a different sample of students to study the sheet of paper for one minute and then remove the sheet. Give the students five minutes to unite clown as many objects as they can remember.

3. Draw a diagram which enables you to compare the distribution of the number of objects remembered in

each of the two situation. Is it easier to remember objects for one situation rather than the other?, Does one situation lead to a greater Variation in the numbers of objects remembered?

4. Calculate the mean and median for each set of data. Which average is more appropriate.

Activity III
For this experiment you require a needle. On a sheet of paper draw parallel lines. separated by a distance equal to half the length of the needle. Place the sheet of paper on it table and throw the needle on to the paper 'at random'. Note whether the needle falls across a line. Repeat this 100 time. From your results find the experimental probability that the needle will full across a line.

This experiment is named after the Comte de Buffon who carried it out in order to obtain an estimate for π. It can be shown that the theoretical probability of the needle falling across a line is $2/\pi$. Use your results to obtain this estimate for π.

PHYSICS

CLASS:XI CIE PHYSICS

Q Identify 10 pairs of objects from your surroundings where Newton's third law can be applied.
Identify the forces involved. Categorize them as action or reaction.
Mention in each pair the object applying action and the one on which the reaction acts.
Also mention in each case whether interaction between the two objects is contact or non contact type.

Q2 Plan an activity on your own to investigate the effects of drag on various objects moving through fluids. List the factors that may affect the magnitude of drag.

BUSINESS STUDIES

INSTRUCTIONS-
  ➢ **Assignment should be submitted on very first day when college reopen**

1. **Question 1)** Research on the case study about the Role of different Cultures in International Business: Cultural Differences in Selected Countries and Regions with Statistical data analysis.(400 words)

2. **Question 2)** Research on the Case Study about : Ethical & Cultural Differences in International Business and Ways Companies Handle Them to gain market share. (McDonald´s, Coca – Cola, etc) with Statistical data analysis. (400 words)

CHEMISTRY

CLASS 11 CIE

Search on the following topics and make a power point presentation:
a) Manufacture of ammonia by "Haber's Process"
b) Manufacture of sulphuric acid by "Contact Process"

ACCOUNTS

1. You are required to do a research work on the difference between the English system of Book-keeping and Indian system of Book-keeping. Draft a report on the above topic.
2. Which system would you prefer? Justify your opinion.
3. Justify the use of machine for accounting.

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ECONOMICS

CLASS-XI CIE-ECONOMICS

Make a PowerPoint presentation on any one of the following topics.
1. Policies of the government might be used to increase the supply of essential goods. Show with examples.
2. What are merits and demerits goods? Show how prices of such goods can be corrected in the market?
3. What is production possibility curve? Show how opportunity cost can be used to show the tradeoffs involved?

PSYCHOLOGY

A) Applying the knowledge of research on designing novel research with solutions.

Design a Psychological research with

Aim
Background
Sample and design
Procedure

B) Completion of notes on the three studies in Biological approach .

HISTORY

GEOGRAPHY

CLASS XI CIE   **GEOGRAPHY HOLIDAY HOME WORK**

Collect some information on the following topics from the internet
1. "Global Warming"- causes, impact (positive and negative)
2. The Stern Review (2006)
3. The role played by IPCC in protecting the climate.
4. Plate tectonics- causes
5. Three types of plate movements (with diagrams)
6. Paleomagnetism
7. Sea – floor spreading

Computer Science

CLASS : XI – CIE SUBJECT : COMPUTER SCIENCE

1.	Convert the following denary integer into binary number system.
	(i) 55 (ii) 187.25
2.	Convert the following denary integer into octal number system..
	(i) 68 (ii) 134.50
3.	Convert the following denary integer into hexa-decimal number system..
	(i) 94 (ii) 169.75
4.	Convert the following binary integer into denary number system..
	(i) 1100110 (ii) 1111010
5.	Convert the following octal integer into denary number system..
	(i) 75 (ii) 235
6.	Convert the following hexa-decimal integer into denary number system..
	(i) 2BD (ii) 387
7.	Solve the following :

	(i) 110011 (ii) 111011
	    +100110 +101010
	    +110000 + 111101

	(iii) 110001 (iv) 100000 -100110 -11101