THE DALY COLLEGE
Holiday Homework – 2017-18
Class – 12CIE

Summer Break Assignment

English

Class 12 CIE

English

Read the questions to research, collect, draft ,organize and edit the final write up. Show all the five steps mentioned above, in your working while submitting your assignment.

1. Write two contrasting pieces (300-450 words each) , the first about sports team before an important , and the second about the same team after the game. In your writing, focus on the different atmospheres.
2. A well known zoo is being expanded and an advertising company is going to produce a promotional film, which aims to target young visitors. Write a script for the voiceover of the film. In your writing, create a balance between having fun and learning about animals.
3. **Read the passage to write a comment on the text.**

CHINUA ACHEBE: Things Fall Apart

'It is Okonkwo that I primarily wish to speak to,' he began. 'But I want all of you to note what I am going to say. I am an old man and you are all children. I know more about the world than any of you. If there is any one among you who thinks he knows more let him speak up.' He paused, but no one spoke. 'Why is Okonkwo with us today? This is not his clan. We are only his mother's kinsmen. He does not belong here. He is an exile, condemned for seven years to live in a strange land. And so he is bowed with grief. But there is just one question I would like to ask him. Can you tell me, Okonkwo, why it is that one of the commonest names we give our children is Nneka, or "Mother is Supreme"? We all know that a man is the head of the family and his wives do his bidding. A child belongs to its father and his family and not to its mother and her family. A man belongs to his fatherland and not to his motherland. And yet we say Nneka – "Mother is Supreme". Why is that?' There was silence. 'I want Okonkwo to answer me,' said Uchendu. 'I do not know the answer,' Okonkwo replied. 'You do not know the answer? So you see that you are a child. You have many wives and many children – more children than I have. You are a great man in your clan. But you are still a child, my child. Listen to me and I shall tell you. But there is one more question I shall ask. Why is it that when a woman dies she is taken home to be buried with her own kinsmen? She is not buried with her husband's kinsmen. Why is that? Your mother was brought home to me and buried with my people. Why was that?' Okonkwo shook his head. 'He does not know that either,' said Uchendu, 'and yet he is full of sorrow because he has come to live in his motherland for a few years.' He laughed a mirthless laughter, and turned to his sons and daughters. 'What about you? Can you answer my question?' They all shook their heads. 'Then listen to me,' he said and cleared his throat. 'It's true that a child belongs to its father. But when a father beats his child, it seeks sympathy in its mother's hut. A man belongs to his fatherland when things are good and life is sweet. But when there is sorrow and bitterness he finds refuge in his motherland. Your mother is there to protect you. She is buried there. And that is why we say that mother is supreme. Is it right that you, Okonkwo, should bring your mother a heavy face and refuse to be comforted? Be careful or you may displease the dead. Your duty is to comfort your wives and children and take them back to your fatherland after seven years. But if you allow sorrow to weigh you down and kill you, they will all die in exile.' He paused for a long while. 'These are now your kinsmen.' He waved at his sons and daughters. 'You think you are the greatest sufferer in the world. Do you know that men are sometimes banished for life? Do you know that men sometimes lose all their yams and even their children? I had six wives once. I have none now except that young girl who knows not her right from her left. Do you know how many children I have buried – children I begot in my youth and strength? Twenty-two. I did not hang myself, and I am still alive. If you think you are the greatest sufferer in the world ask my daughter, Akeuni, how many twins she has borne and thrown away. Have you not heard the song they sing when a woman dies? "For whom is it well, for whom is it well? There is no one for whom it is well." 'I have no more to say to you.'

Mathematics

XII CIE

Activity I

In order to carry om this activity you will need to make your observation
on a road where the traffic flow freely preferably away from traffic lights and Junctions. The best results will he obtained if rate of flow is one to two cars per minute on average.

a. Count the number of cars which pass each minute over a period of an hour and assemble your results into a frequency table

b. Calculate the mean and variance of the number of cars per minute Comment on your results

c. Compare the relative frequencies with the Poisson probabilities calculated by taking λ equal to the mean of your data. Comment on me agreement between the two sets of values.

Activity II

For this activity you need a chessboard and a few tablespoonfuls of uncooked rice.

a. Scatter the rice 'at random' on to the chessboard. This can be achieved by holding your hand about 50 cm above the board and moving it around as you drop the rice. Drop sufficient rice to result in two to three grains of rice per square on average.

b. Count the number of grains of rice in each square and assemble your results into a frequency table.

c. Calculate the mean and variance of the number of grains per square. If these are reasonably close then go on to part (d). If not, see if you can improve your technique for scattering rice 'at random'

d. Compare the relative frequencies with the Poisson probabilities calculated taking λ equal to the mean of your data Comment on the agreement between the two sets of values.

Activity III

For this activity you need details of the results of the matches in a football division for one particular week.

a. Make a frequency table of the number of goals scored by each team.

b. Calculate the mean and variance of the number of goals scored.

c. Compare the relative frequencies with the Poisson probabilities calculated by taking ti equal to the mean of your data.

d. Discuss whether the variable 'number of goals scored by each team' satisfies the conditions required for the Poisson distribution to be a suitable model. Comment on the results you obtained in part (b) and part (c) in the light of your answer.

PHYSICS

1 A student wishes to determine the Young modulus E of wood from the period of oscillation of a loaded wooden rule, as shown in Fig. 1.1.

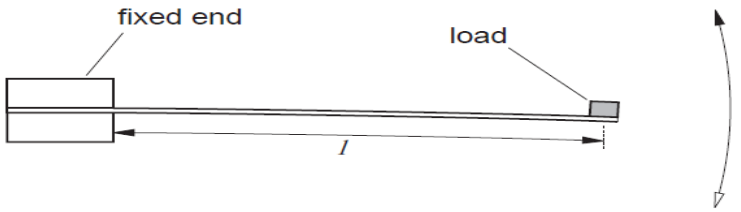


Fig. 1.1

An equation relating the period of oscillation T to the overhanging length l of the rule is

$$T^2 = \frac{kl^3}{E}.$$

The constant k is given by

$$k = \frac{16\pi^2 M}{wd^3}$$

where M is the mass of the load, w is the width of the rule and d is the thickness of the rule.

Design a laboratory experiment to determine the Young modulus of wood. You should draw a diagram showing the arrangement of your equipment. In your account, you should pay particular attention to

(a) the procedure to be followed,

(b) the measurements to be taken,

(c) the control of variables,

(d) how to analyse the data,

(e) how to determine E,

(f) the safety precautions to be taken.

Business

INSTRUCTIONS-

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

QUESTION 1) Corporate Social Responsibility: Research Case Study about – Nokia McDonald´s, Unilever, US Steel, Kraft Foods, etc. (500 words)

QUESTION 2) ResearchCase Study about : How is the Selected International Company Managing Intercultural Communication? .(500 words)

Chemistry

CLASS 12 CIE

Research on the following topics and make a presentation showing their applications:

a) Designing new medicinal drugs
b) Nuclear magnetic resonance
c) Mass spectroscopy

Accounts

1. You are required to do a research on comparative study on Indian Accounting Standards and International Accounting Standards. Draft a summarized report on it.
2. Apart from above standards, why there is need of IFRS? Justify your view.

ECONOMICS

HW Assignment for class XII -CIE
Research Topic – Oligopoly Market and Game Theory
Case Study – Indian telecom market: Especially with reference to the entry of Reliance Jio
Argument – Compare it with other market form.

PSYCHOLOGY

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

Design a Psychological research with

Aim
Background
Sample and design
Procedure

GEOGRAPHY

CLASS XII CIE GEOGRAPHY HOLIDAY HOMEWORK

Collect some information from the internet on the following case studies.

1. Environmental impact of energy production in the Niger Delta
2. China's energy policy
3. China's renewable energy policy
4. The BP oil spill in the Gulf of Mexico
5. Urban degradation in China
6. The management of a degraded environment in Namibia and community development program.

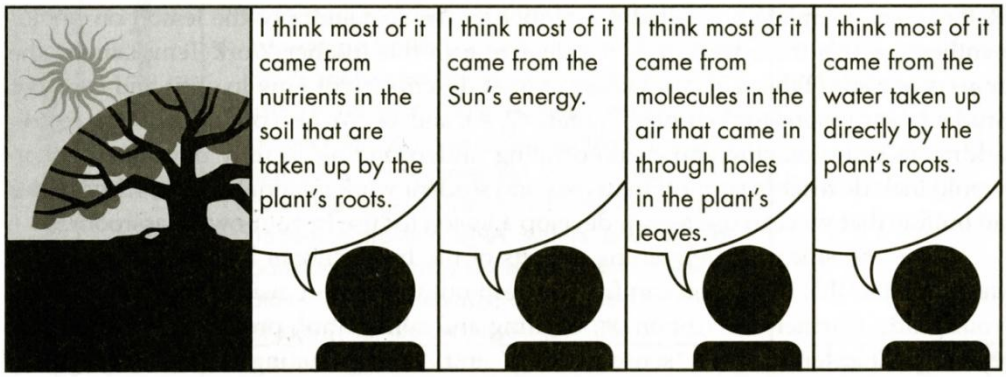
BIOLOGY

DALY COLLEGE

GRADE 12 CIE

Where does a plant's mass come from?[1]

Question: This large tree started as a little seed. What provided most of the mass that made the tree grow so large?

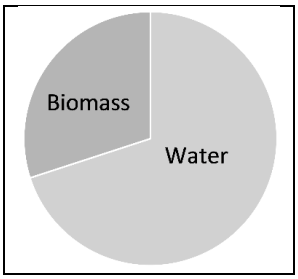


(from "Hard-to-Teach Biology Concepts" by Susan Koba with Anne Tweed, NSTA Press)

1. Which of the four hypotheses in the cartoon do you agree with?

In this activity, you will analyze information to evaluate these four hypotheses.

Almost all of a plant's mass consists of water and organic molecules (e.g. cellulose and proteins). The weight of all the organic molecules is called the **biomass**.



2. This pie chart for a plant's mass shows that more than half of a plant's mass is _____ .
(organic molecules/water)

.

3a. In 1642-1647, Helmont carried out a classic experiment to evaluate where a plant's mass came from. He grew a willow tree in a pot and added only water during the five-year experiment. He recorded the weight of the tree and the weight of the dried soil in the pot at the beginning and end of his experiment. Complete this table to show the changes in weight for the tree and for the dried soil.

	Weight of Tree	**Weight of Dried Soil**
1642	5 pounds	200 pounds
1647	169 pounds, 3 ounces	199 pounds, 14 ounces
Change in Weight		

3b. Helmont concluded that almost none of the weight of the tree came from the dry soil, so almost all of the weight of plants comes from water. Is his conclusion justified by the findings from his experiment? yes___ no___ Explain why or why not.

3c. If Helmont's conclusion is not justified by the results of his experiment, state a more valid conclusion.

4. Complete the table below to summarize your evaluation of four hypotheses about where a plant's mass comes from. Use the information already presented and these research findings:

- Most of the mass of the sugar molecules produced by photosynthesis comes from CO_2. Most of the mass of plant organic molecules comes from these sugar molecules. Therefore, most of the mass of plant organic molecules comes from CO_2.
- Many plants can be grown with their roots in water instead of soil. However, growth and survival are limited unless a small amount of soil or fertilizer is added to the water.

How much of a plant's mass comes from each of the following?	Explain the evidence and reasoning that supports your conclusion.
The sun's energy __a substantial amount __a very small amount __none	
Molecules in the air that come into the plant's leaves __a substantial amount __a very small amount __none	
Water taken up by the plant's roots __a substantial amount __a very small amount __none	
Nutrients in the soil that are taken up by the plant's roots __a substantial amount __a very small amount __none	