

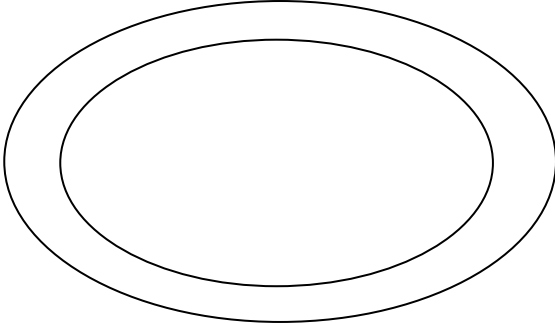
RAINY DAY - H.W.
Sequences & Series

- Find the sum of the following series up to n terms:
 (i) $5 + 55 + 555 + \dots$ to n terms Ans: $\frac{50}{81} [10^n - 1] - \frac{5n}{9}$
 (ii) $0.6 + 0.66 + \dots$ to n terms Ans: $\frac{2n}{3} - \frac{2}{27} (1 - 10^{-n})$
- If S_1, S_2, S_3 are the sum of first n natural numbers, their squares & their cubes respectively, show that

$$9S_2^2 = S_3(1 + 8S_1)$$
- Let S be the sum, P the product and R the sum of reciprocals of n terms in a G.P.
 Prove that $P^2 R^n = S^n$.
- Show that
$$\frac{1 \times 2^2 + 2 \times 3^2 + \dots + n(n+1)^2}{1^2 \times 2 + 2^2 \times 3 + \dots + n^2 \times (n+1)} = \frac{3n+5}{3n+1}$$
- Ram buys a scooter for ₹22,000. He pays ₹4000 cash and agrees to pay the ^{balance in} annual instalment of ₹1000 plus 10% interest on the unpaid amount.
 How much ^{will} the scooter cost him? Ans: ₹39,100.

KV IIT CHENNAI
BIOLOGY

CLASS XI RAIN DAY HOME WORK

DATE	CHAPTER	CONCEPTS/QUESTIONS																				
13.11.2017	13	<p><u>Historical Background- What were the discoveries of the following?</u></p> <p><u>Joseph Priestely-</u></p> <p><u>JanIngenhousz</u></p> <p><u>Engelmann</u></p> <p><u>Julius Von Sachs</u></p> <p><u>Van Niel</u></p> <p>The present day equation of photosynthesis as given by <u>Van Niel</u> is:</p> <p><u>Site of Photosynthesis</u></p> <p>With a diagrammatic representation show the site of photosynthesis (Photochemical and biosynthetic phase) in the chloroplast . Complete & label the diagram</p>  <p><u>Photosynthetic Pigments-</u></p> <ul style="list-style-type: none">• Pigments involved in photosynthesis are- <table border="1"><thead><tr><th>Sl. No.</th><th>Name of Pigment</th><th>Colour of Pigment</th><th>Function/Role</th></tr></thead><tbody><tr><td>1.</td><td>Chlorophyll a</td><td></td><td></td></tr><tr><td>2.</td><td>Chlorophyll b</td><td></td><td></td></tr><tr><td>3.</td><td>Carotene</td><td></td><td></td></tr><tr><td>4.</td><td>Xanthophyll</td><td></td><td></td></tr></tbody></table>	Sl. No.	Name of Pigment	Colour of Pigment	Function/Role	1.	Chlorophyll a			2.	Chlorophyll b			3.	Carotene			4.	Xanthophyll		
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14.11.2017

13

I. Differentiate:

1) Action Spectrum and absorption spectrum with graphs

2) Photosystem I and Photosystem II diagrammatically

3) Cyclic & Non cyclic photophosphorylation schematically (flow chart)

FINANCIAL STATEMENTS WITH ADJUSTMENTS

HOME-WORK XI C ACCOUNTANCY

Table showing adjustments

Adjustments	Journal entry	Adjustment in Trading and P/ L A/C	Adjustment in Balance Sheet
Depreciation	Depreciation A/C Dr To Asset A/C	Posted at the debit side of P/L A/C	Shown as deducted from concerned assets.
Bad Debts	Bad Debts A/C Dr To Debtors A/C	Posted at the debit side of P/L A/C	Deducted from debtors at the assets side
Provision for bad and doubtful debts	P/L A/C Dr To provision for bad Debts A/C	Posted at the debit side of P/L A/C	Deducted from debtors at the assets side
Provision for discount on debtors	P/L A/C Dr To provision for Discount on Debtors A/C	Posted at the debit side of P/L A/C	Deducted from debtors at the assets side
Outstanding Manager's commission	P/L A/C Dr To Outstanding Manager's commission A/C	Manager's commission A/C will be shown at the debit side of P/L A/C	Shown at the liabilities side of Balance sheet.
Goods taken by the proprietor for personal use	Drawing A/C Dr To purchases A/C	Amount of Goods taken by the proprietor Will be deducted from purchases in trading A/C	Amount of Goods taken by the proprietor Will be deducted from Capital at the liabilities side.
Goods given as charity	Charity A/C Dr To purchases A/C	Deducted from purchases in trading A/C	Deducted from Capital at the liabilities side.
Goods distributed as free samples	Advertising A/C Dr Or Free samples A/C Dr To purchases A/C	Posted at the debit side of P/L A/C. Also Deducted from purchases in trading A/C	No effect
Loss of Assets by fire (If not insured)	Loss by fire A/C Dr To Assets A/C	Loss by fire will be shown at the debit side of P/L A/C.	Loss will be deducted from the concerned asset at the asset side.

RAIN HOME WORK FOR CLASS-XITH

SUBJECT:CHEMISTRY

Q1.Describe the structure of common form of ice?

Q2.Discuss the principle and method of softening of hard water by synthetic ion exchange resins.

Q3.what is meant by demineralisatioid water?how is it obtained?

Q4.what do you understand by the term:

A]hydrogen economy

B]hydrogenation

C]syngas

D]water-gas shift reaction

E]fuel cell?

XI C BUSINESS STUDIES.

RAIN HOLIDAY HOME WORK

TOPIC : Sources of Business Finance

1. Write a short note on the following
* a) Mutual Fund Scheme b) Unit Trust of India
2. Make a list of ten Non-Banking Finance Companies (NBFC) "
3. Discuss the role of working capital in a business concern.
4. Discuss the factors which influence the determination of the amount of working capital
5. What is self financing?

Lesson The Ailing Planet

Answer the following questions

1. Why does Nani Palkhivala call the earth 'The Ailing Planet'? How can the Ailing Planet survive?
2. Laws are never respected nor enforced in India. Write an article regarding this with reference to the lesson and how it is not respected.
3. How are the earth's four principal biological systems being depleted?
4. You are a member of the committee. Write a report of how you participated in keeping your vidyalaya neat and clean through the Swatchta programme
5. Draft a poster to highlight the importance of the Green Environment .