

GOOD SHEPHERD CATHOLIC BOYS' SECONDARY SCHOOL, OYEDE
MID-TERM BREAK ASSIGNMENTS, 3RD TERM 2020/2021 ACADEMIC SESSION

CLASS: S.S. 2

CHEMISTRY

1. What is nuclear fission?
2. Mention four uses of Ethanol
3. Differentiate between primary, secondary and tertiary Alkanols.

BIOLOGY

1. State two characteristics each of wind, insects and water pollinated flowers
2. State three functions of the skin
3. Explain how auxins inhibits lateral bud growth
4. List three functions of the hypothalamus
5. Draw and label a neuron as well as stating the parts of the neuron.

PHYSICS

1. Distinguish between
 - a. Elastic and inelastic collisions
 - b. Inertial mass and weight
2. Derive from Newton's law the relationship between Force, mass and acceleration.

ECONOMICS

1. What is production possibility curve?
2. State the importance of diminishing returns.
3. Distinguish between Economists and Accountants views on cost.

GEOGRAPHY

1. Use the climatic data to answer the following questions.

Months	J	F	M	A	M	J	J	A	S	O	N	D
Temp0c	22	23	24	25	27	29	29	27	27	27	24	24
Rainfall	-	-	5	10	20	35	45	45	30	20	-	-

(a) What is the total annual temperature?

(b) What is the total annual rainfall?

(c) What is the annual range of temperature?

2(a) Use the climate data in the table below to answer the following questions.

Month	J	F	M	A	M	J	J	A	S	O	N	D
Rainfall	18	17	20	39	48	90	112	90	56	47	30	25
Temperature	21	21	20	17	15	12	12	13	14	18	18	20

(a) Plot a combined rainfall and temperature graph for station X

(b) Calculate the :

(I) Annual temperature range

(II) Mean annual temperature for the station.

CIVIC EDUCATION

1. What is public service?
2. Mention any two (2) functions of public service.
3. List and explain three(3) classifications of the Nigerian public service.

HOME MANAGEMENT

1. Outline four functions of water.
2. Explain the meaning of healthful eating.
3. Mention four factors that determine the nutritional needs of individuals.

- List four functions of minerals.

LITERATURE IN ENGLISH

Emily Bronte's **Wuthering Heights**

- Discuss the theme of revenge in the novel
- Wuthering heights is said to be a gothic fiction. Discuss.
- Summarize the plot structure of the novel

ENGLISH LANGUAGE

As the senior prefect of your school, write a vote of thanks you will present at the end of the PTA meeting slated to hold at the end of the session.

FINANCIAL ACCOUNTING

- What do you understand by the word Department?
- List and explain five department expenses and their bases
- Outline four advantages of Departmental Account
- Use the following information to draw up a departmental account for the year ended 30th June 2003

	Dept X	Dept Y
	N	N
Sales	16,000	24,000
Purchases	9,000	6,000
Opening stock	600	500
Closing stock	900	600
Discount allowed	800	1,200

Other Information: Carriage inwards is proportion to sales N1,600

FURTHER MATHEMATICS

- 1) Find the sine of the acute angle between the vectors:

$$P = 3i - 2j + 4k$$

$$Q = 4i + 5j + 3k$$

- 2) A function f is defined on \mathbb{R} , the set of real numbers, by $f : x \rightarrow \frac{x+3}{x-2}$, $x \neq 2$

2. Find f^{-1} .

- 3) Given that $P = 5i + 3j + k$, $Q = -3i + 2j + 4k$, Find the unit vector in the direction of vector $P \times Q$
- 4) Evaluate $\cos 255^\circ$ in simple surd form

GENERAL MATHEMATICS

- 1) If a and β are the roots of $4x^2 + 23x = 35$, find $\frac{1}{a} + \frac{1}{\beta}$

- 2) Given that $f(x) = \frac{x-3}{2x-1}$, $x \neq \frac{1}{2}$ and $g(x) = \frac{x-1}{x+1}$, $x \neq -1$, find $g \circ f(x)$

- 3) State four types of relations you know

- 4) Draw the graph of $y = 3 - 4x - 2x^2$ for $-4 \leq x \leq 2$. use your graph to find
- The maximum value of $3 - 4x - 2x^2$
 - The root of the equation $3 - 4x - 2x^2 = 0$
 - the gradient of the curve $y = 3 - 4x - 2x^2$ at $x = 2$

HISTORICAL STUDIES

- Briefly state the main functions of the UNO General Assembly
- What led to the formation of UNO in 1945?
- Why did the military take over power in Nigeria in 1966?
- What is Nationalism?
 - What were the steps taken to fight for Nationalism and independence by the nationalists? List six of them.

GOVERNMENT

1. Outline any **three** features which distinguished the 1963 Republic Constitution from the 1960 Independence Constitution.
2. Identify any **three** changes that were introduced in the Lyttleton Constitution of 1954.

ANIMAL HUSBANDRY

1. Mention **four** methods of collecting semen for artificial insemination
2. State **four** importance of diluents in a collected semen.
3. List **four** examples of common diluents.

AGRICULTURAL SCIENCE

1. [a] State the law of demand.
[b] Prepare an hypothetic demand schedule of five weeks for a named product.
[c] Draw a demand curve to show the relationship between the price and the quantities
of the product demanded in 'b' above
2. If the price of milk dropped from N50 to N40 and the quantity demanded increased from 10 units to 13 units:
 - i. What is the elasticity of demand for milk?
 - ii. State the type of elasticity of demand. [NECO SSCE 2009]
3. List **four** features **each** of the following factors of production:
 - i. Land
 - ii. Labour
 - iii. Capital
 - iv. Entrepreneur [management]

CHRISTIAN RELIGIOUS STUDIES

- 1). Discuss Jehoiakim's revolt and its consequences on the kingdom of Judah.
- 2). Zedekiah revolted against Nebuchadnezzar, but suffered for it, along with the entire people of Judah. Explain.
- 3). How did the decree of Cyrus help in bringing the prophecy of Jeremiah concerning the returning of the exiles and the rebuilding of the temple to fulfilment?
- 4). Give the highlights of the dedication of the rebuilt temple.