

MATHEMATICS

Probability

1. Two fair dice are tossed, find the probability that the total score that shows up is

A. 8, B. Less than 6, C. Greater than or equal to 9 D. A prime number

2. A box contains 5 blue balls, 3 black balls and 2 red balls of the same size. A ball is selected at random from the box and then replaced. A second ball is then selected.

Find the probability of obtaining:

A. Two red balls,

B. Two blue balls or two black balls.

C. One black ball and one red ball in any order.

3. A bag contains four red, three white and five green balls.

A. If one ball is picked at random, what is the probability that it is NOT green?

B. If two balls are picked at random without replacement, what is the probability that one is red, the other white?

Simplify the following:

1. $\frac{a^2 - b^2}{c^2 - d^2} \div \frac{b - a}{c + d}$

2. $\frac{b^2 - 25}{b^2 - 3b} \times \frac{b^2 - 9}{b^2 - 5b}$

3. Find the values of x for which the expression is undefined $\frac{6x-1}{x^2-4x-5}$

4. Simplify $\frac{2}{a+b} - \frac{1}{a-b}$

5. Simplify $\frac{2x^2-2y^2}{xy} \div \frac{x+y}{4x^2y^2}$

CHEMISTRY

HOLIDAY ASSIGNMENT & SCHEME

Instruction: Read the following topics (Sections A to C) and answer the questions attached to each section.

To be done in your assignment note book and be submitted on the first day of resumption.

References: *New School Chemistry for Senior Secondary School by Yaw Ababio.*
Understanding Chemistry by Godwin Ojokuku.
Lamlad Chemistry by Ayinde & Asubiojo.

Section A: Thermochemistry/Energetics

- Questions:**
1. what is Thermochemistry
 2. Differentiate between Endothermic & Exothermic Process, give two examples each.
 3. List five types of Enthalpy Changes
 4. Differentiate between Entropy and Enthalpy, giving the symbol of each.

Section B: Rates of Reactions/Chemical Kinetics

- Questions:**
1. What is the Rate of Chemical Reaction?
 2. List all the factors that are responsible for the rate of reaction.
 3. Draw & label the energy profile diagrams of Endothermic & Exothermic Reactions.

Section C: Petroleum Chemistry/Crude oil

- Questions:**
1. List 6 important fractions of crude oil
 2. Differentiate between Cracking and Reforming.
 3. List the types of Cracking you know.
 4. What is Octane Number?
 5. List three homologous series that are mainly hydrocarbons.

BIOLOGY

S/N	WEEKS	SCHEME OF WORK/TOPICS	QUESTIONS	TEXT BOOKS	PAGES
1	1	Excretory system and mechanism	1. State two ways in which the excretory organs of earthworms is similar to man 2. Give three differences between them.	Modern Biology for Senior Secondary scho, by Sarojini T. Ramalingam.	Chapter 16, Pages:332-338
2	2	Regulations of Internal Environment	1. List Ten funtions of the liver and explain two.	Modern Biology for Senior Secondary scho, by Sarojini T. Ramalingam	Chapter 19, Pages:383-386-
3	3	The skin	1. Explain how the body regulates its temperature.	Modern Biology for Senior Secondary scho, by Sarojini T. Ramalingam	Chapter 19, Pages:387-390

DATA PROCESSING

WEEK	DESCRIPTION OF TOPICS
1 - 3	WEB DESIGN PACKAGES <ul style="list-style-type: none"> ➤ Introduction to Macromedia Dreamweaver ➤ Features of Macromedia Dream weaver ➤ Dreamweaver Start up Window ➤ The Dreamweaver Interface ➤ The Macromedia Dreamweaver Environment ➤ Set up a New Site ➤ Creating and Publishing a Website
4 - 7	GRAPHIC PACKAGES <ul style="list-style-type: none"> ➤ Introduction to CorelDraw ➤ The Features of CorelDraw ➤ The Tool Box ➤ Simple Designs ➤ Printing from CorelDraw ➤ Creating a New Document ➤ Opening an Existing CorelDraw File

8 - 9	MAINTENANCE OF COMPUTER I <ul style="list-style-type: none"> ➤ Cleaning Tools ➤ General Cleaning Tips ➤ How to Clean Your System Unit, Mouse, Keyboard, CD-ROM, DVD and Other Disc Drives, Monitor, LCD, System Motherboard. ➤ How to Clean the Inside of a Computer ➤ Maintaining Your UPS ➤ Extending Battery Life ➤ Replacing Your Battery
10	REVISION IN PREPARATION FOR EXAMINATION

ASSIGNMENT

1. Define Computer Graphics
2. Differentiate between graphic package and presentation package
3. What are the functions of the following tools in toolbox of CorelDraw
 - a. Text tool
 - b. Pick tool
 - c. Ellipse tool
 - d. Knife tool
4. Write out the procedures you would follow to design a complimentary card in CorelDraw

ECONOMICS

Read Elasticity of supply and answer the questions that follow:

- 1) What do you understand by the term 'Elasticity of supply'?
- 2) At N10 per tuber of yam, 24 tubers were supplied and when the price increased to N12 per tuber, 30 tubers were supplied. (a) Present the above data in a table (b) Calculate the coefficient of price elasticity of supply. (c) what type of elasticity of supply is this? State the reasons.

FRENCH

L'Education et l'internet:

Les avantages et les desavantages

GEOGRAPHY

Instruction: Answer all questions. To be handwritten in fullscap sheet(s) of paper OR inside 20 Leaves exercise notebook.

1. Enumerate four features of each of wave erosion and deposition.
2. List and explain four climatic types of Nigeria

Reference Materials

- Adegoke, M. (2015): A Comprehensive Text on Physical, Human and Regional Geography for Senior Secondary Schools and Colleges. Osogbo, Aquifer Publisher.
- Areola, O., Iruoghe, Ahmed, K., Adeleke, B., Cheng Leong, G. (2007): Certificate Physical and Human Geography for Senior Secondary Schools. Ibadan, University Press PLC.
- Iwena, O. (2018): Essential Geography for Senior Secondary Schools. Lagos, Tonad Publishers Ltd.
- Ojo, S. et al., (2007): Countdown to Senior Secondary School Certificate Examination (SSCE) Geography. Ibadan, Evans Brothers (Nigeria Publishers) Limited.

BOOK KEEPING

Read the topic Nonprofit making organization and answer the following questions on a piece of paper.

- 1 Define the following terms;
 - (i) Subscription in advance
 - (ii) Entrance fees
 - (iii) Accumulated fund
 - (iv) Subscription in arrears
 - (v) Bar stock
- 2 write out the format of statement of affairs.

GOVERNMENT

Discuss the British Colonial administration in Nigeria

(Note: Your answer should not be less than a foolscap paper)

CHRISTIAN RELIGIOUS STUDIES

The Mission of the Gentiles.

- a) Discuss in details the activities of Paul and Barnabas at Antioch,Pisidia(Acts 13;13-52)
- b) Paul and Barnabas at Iconium and Lystra.(Acts 14;1-20)

AGRICULTURAL SCIENCE

INSTRUCTIONS:

- (i) Answer all the questions below
 - (ii) Copy all the questions and then answer them inside your Agricultural Science note.
1. Study the composition of poultry feeds I and II as shown in the table below and use to answer questions (a) to (e).

Feed I		Feed II	
Ingredients	Amount (%)	Ingredients	Amount (%)
Maize	61.00	Maize	51.50
Wheat bran	5.50	Wheat bran	25.50
Groundnut cake	20.50	Groundnut cake	7.50
Fish meal	7.00	Fish meal	7.50
Copra cake	4.00	Oyster shell	7.50
Oyster shell	1.50	Salt	0.25
Salt	0.25	Vitamin premix	0.25
Vitamin premix	0.25		
Total	100.00	Total	100.00

- (a) In feeds I and II, list the:
 - (i) Carbohydrate ingredients
 - (ii) Protein ingredients
 - (iii) Mineral ingredients
- (b) Which of the feeds has a higher:
 - (i) Energy content
 - (ii) Protein content

- (iii) Fibre content
- (c) Which of the two feeds would be recommended for a laying flock? Give one reason for the recommendation.
- (d) State **three** functions of wheat bran and one function of salt in the foods.
- (e) State **three** ways of preventing feed wastage in poultry.
2. A series of experiments were conducted on the **three main types of soil** labelled **A, B, and C** to determine their porosity, water holding capacity and pH. The results obtained are as shown in the table below.

Soil type	Time taken for first drop of water to pass through the soils (minutes)	Volume of water that drained through the soils (cm ³)	Soil Ph
A	12.0	70.0	3.9
B	52.0	30.0	8.7
C	32.0	50.0	7.0

- (a) Identify the soil types labelled **A, B, and C**.
- (b) If 100 cm³ of water was poured onto **each** soil type, determine the **water holding capacity** of each soil types labelled **A, B, and C**.
- (c) Interpret the pH value of each soil type as given in the table
- (d) **Which of the** three soil types likely to be **most productive**? Give **two** reasons for your answer.
- (e) (i) Which of the soil types **A, B, and C** is likely to be the least productive?
(ii) Suggest **two** ways of improving the least productive soil.
3. **The diagrams (figure 1) below** illustrate methods of applying inorganic fertilizer. Use them to answer questions a-c.
- A. Identify **the methods** of applying inorganic fertilizers illustrated by diagrams **I, II, III, and IV** below.
- B. List **three factors** that determine the amount of inorganic fertilizer to be applied to crops.
- C. List **two** problems associated with the usage of inorganic fertilizers.

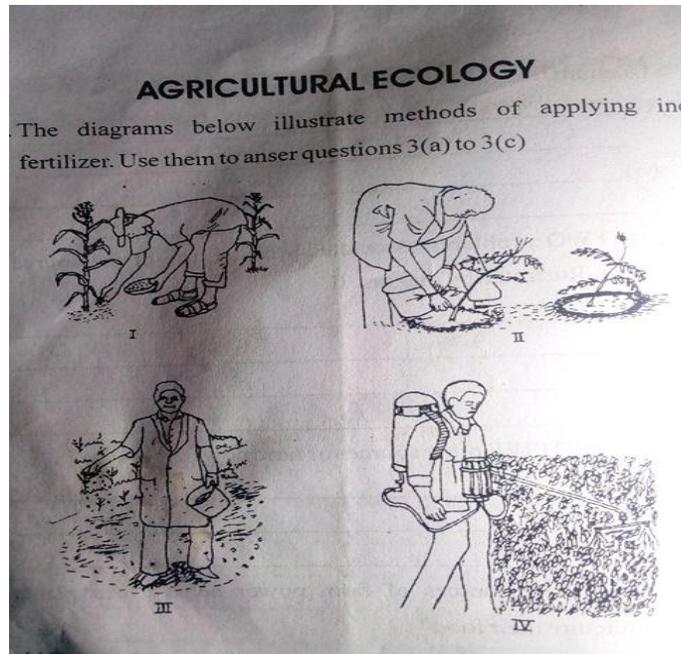


Figure I

- D.
- (i) If the recommended dosage of nutrients for optimum yield of cassava is 50 Kg of nitrogen, 20Kg of phosphorus and 30 Kg of potassium per hectare, using three straight fertilizers, calculate the quantity of:
 - (ii) Ammonium sulphate $[(NH_4)_2SO_4]$ needed in 0.25 hectare plot, if it contains 21% nitrogen.
 - (iii) Single superphosphate (P_2O_5) needed in 0.25 hectare plot, if it contains 18 % phosphorus.
Muriate of potash (K_2O) needed in 0.25 hectare plot, if it contains 60% potassium.

FINE ART

INSTRUCTIONS: Read your text book. **Cultural Creative Art for Schools and Colleges** by **Ibrahim Banjoko**. Answer all the questions below inside your **Fine Art** note.

1. Read about Indian Art and answer the following questions
 - (a) State **five** characteristics of Indian Art
 - (b) Mention the **three** focus of Indian Art.

LITERATURE – IN – ENGLISH

INSTRUCTIONS: Reading Book III of **Native Son**. Examine the mind set of Bigger Thomas at the end of this text. (2 pages full scap sheet)

ENGLISH LANGUAGE

INSTRUCTIONS: Answer this question below inside your English Language note.

Write a letter to your cousin in Abuja on how you intend to prepare for your G.C.E. Examination.

PHYSICS

INSTRUCTION: Answer all the questions below inside your Physics note.

A man uses a rope to haul a box of weight **600 N** up an inclined plane wooden plank of effective length **3.0 m** and onto a platform **1.0 m** high. If in doing so, he exerts a force of **400 N** on the rope, calculate:

- (i) The frictional force between the case and the plank:
- (ii) The velocity ratio of the machine;
- (iii) The mechanical advantage:
- (iv) The useful work done in joules.

CIVIC EDUCATION

Read on Electoral Malpractices in your Civic Education Textbook and attempt the following questions:

1. Define Electoral Malpractices.
2. Examine the patterns of electoral malpractices in the Nigerian 2019 General Elections.
3. Explain how electoral malpractices impede human and socioeconomic development in Nigeria.

FURTHER MATH

NEW FURTHER MATH PROJECT 2 Exercise 9B, No 6 and 7.

YORUBA

Ka iwe lori apola ninu ede Yoruba ki o si so ohun ti apola ise ati apola oruko je pelu apeere meji meji fun ikookan.