NEWGATE COLLEGE

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FIRST MID TERM QUESTION 2026/2027 SESSION

CLASS: **SS 2**

MATHEMATICS

Use logarithm table to evaluate 0.0751 /✓0.00784

2. The fourth term of an AP is 37 and the 6^{th} term is 12 more than the fourth term. Find the first and seventh terms.

3. Given that 1+✓3 and 1-✓3 are the root of the equation $ax^2+bx+c=0$, find the values of a,b,c

4.If the quadratic function $3x^2-7x+R$ is a perfect square. Find R

CITIZENSHIP AND HERITAGE STUDIES

Prepare a table showing five Nigerian heritage sites, their locations, and their historical or cultural importance.

ACCOUNTING

Topic: The Case of Increasing Expenses

Total Marks: 10 Marks

Case Study

A business owner complains that sales have increased, but the money available to expand the business has decreased.

Questions

1. Identify four possible reasons for this situation. (2 marks)

2. Explain how the trading account and profit and loss account could help the owner understand the financial position of the business. (2 marks)

3. Create a simple set of figures showing sales, cost of goods sold, and expenses for the business. (2 marks)

4. Prepare a trading, profit and loss account using the figures you created in Question 3. (2 marks)

5. Analyse the results and identify the major causes of reduced profit. (1 mark)

6. Recommend two measures the owner could take to improve profitability. (1 mark)

7. Explain why increasing sales does not always lead to increasing profit. (1 mark)

Note: Show all necessary calculations and present your accounts neatly.

MARKETING

1. How does an increase in the price of a product affect consumers purchasing decisions

2. State five ways why some products fail in the markets

Ss3 marketing

1. Discuss how a business can determine whether it's marketing campaign is successful

2. State five reasons why consumers abandon brands they have used for year

COMMERCE

Imagine you are a producer launching a new brand of energy drink, targeted at the University students:

(a). Which method of advertising would you use to advertise your brand and why?

(b). Choose the most suitable advertising media and explain your choice based on at least three factors affecting the choice of advertising media

CHEMISTRY

If 12.2g of Pb(NO3)2 were dissolved in 21cm3 of distilled water at 20oC. Calculate the solubility of the solute in moldm-3. (Pb=207, N=14, O=16) (3 marks)

2.The solubility of KNO_3 is exactly 1800g per 1000g water at 83oC and 700g per 1000g water at 40oC. Calculate the mass of KNO_3 that will crystallize out of solution if 155g of the saturated solution at 83oC is cooled to 40oC. (4 marks)

3. What are the products formed at the anode and cathode of the electrolysis of $ZnCl_2$ using zinc rods (3 marks)

GOVERNMENT

Your local government chairman fails to provide basic amenities despite receiving public funds. State five ways the people can hold the chairman accountable.

DIGITAL TECHNOLOGY

Instruction: Answer all questions and follow the instructions carefully.

QUESTION 1: Using Microsoft Word, perform the following tasks:

a. Type the heading MY SCHOOL and make it bold.

b. Change the heading colour to blue and centre-align it.

QUESTION 2: ADVANCED SPREADSHEET OPERATIONS

Using Microsoft Excel, enter the following data:

Student	**Mathematics**	**English**
Ade	70	60
Bola	80	75
Chidi	65	85

a. Enter the data into the spreadsheet.

b. Calculate Ade's total score using a formula**. (SHOW YOUR FORMULA IN ONE SCREEN SHOT PAGE OF THE EXCEL** AND **YOUR ANSWER IN THE SECOND SCREEN SHOT OF THE EXCEL PAGE).**

QUESTION 3: SPREADSHEET FORMATTING

Using Microsoft Excel:

a. Make the column headings in Question 2 bold.

b. Apply borders to the data table.

QUESTION 4: WEB DESIGNING

(a) What is web design?

(b) State one element of a well-designed website.

ECONOMICS

QUANTITY IN (KG)	TC	TR	MC	MR
13	284	396	-	-
18	401	542	A	E
22	501	642	B	F
25	594	711	C	G
27	699	751	D	H

(a) Complete the table above for marginal and marginal Revenue in A-H

(b) What is the company profit maximising output level?

(c) Determine total profit at the profit maximizing output level.

AGRICULTURAL SCIENCE

1. Describe briefly how you would plant a cowpea.
2. Mention five conditions necessary for germination to take place

BIOLOGY

1.Make a well labelled diagram of the longitudinal section 6 -8cm of a pineapple and transverse section 6-8cm (fully labelled)

2. State five differences between pineapple and orange

ENGLISH LANGUAGE

You gained admission to a university abroad but your father insists that you study in your country. Write a letter to him, giving him at least three reasons he should allow you to study abroad.

LITERATURE

Give an extensive summary account of the book: Path of Lucas.