

General Maths

Answer All.

1. Solve the equations $X + Y = 3$ and $X^2 - Y^2 = -3$
2. What is the Range of Values of x for which $2x + 5 > 1$ and $x - 4 < 1$ are both satisfied?

Government

Define the term public corporation.

State three aims of public corporation

Further Mathematics

1. Find the equation of the tangent to the curve $xy^2 + x^2y = 4xy$ at the point $(1, 3)$.
2. The angle of a sector of a circle is 75° . If the radius of this circle is increasing at the rate of $0.3\text{cm} / \text{s}$. Find the rate of increase of the area when the radius is 6cm , leaving your answer in terms of π .
3. If the coefficient of x^2 and x^3 in the expansion of $(p + qx)^7$ are equal, express q in terms of p .
4. Find, from first principle, the derivative with respect to x , of $\frac{1}{3x^2+5}$.
5. A circle is drawn through the points $(-1,1)$, $(0,6)$ and $(5,5)$. Find the:
(a) coordinates of the centre of the circle; (b) radius of the circle; (c) equation of the circle.

Literature

Discuss xenophobia as a theme in *Unexpected Joy at Dawn* by Alex with relevant incidents that took place in the novel.

Make a note on the following sub headings using the above literary work:

- A brief biography of the novelist.
- The settings of the novel.
- Plot overview/ summary of the novel
- Character and characterization
- Subject matter/ themes
- Narrative techniques and devices

NOTE

You are mandated to finish this literary text before the school resumes.

Commerce

- 1a) Define Transportation
- b) list five importance of transportation
- C) what are the modes of transportation
- 2a) Explain warehousing
- b) mention five types of warehousing
- C) what are the functions of warehousing.

Marketing

- 1a) what is marketing?
- b) what is the difference between market and marketing
- 2a) state five functions of marketing
- b) write a short note on the following
 - 1) form utility
 - 2) place utility
 - 3) possession utility

Garment Making

Use your Basic Skirt Block Pattern to adapt: Yoke Skirt

Foods & Nutrition

Process, package, label and submit two natural spices of your choice

Biology

ANSWER ALL QUESTIONS

- 1a. Define the following;
 - i. Growth
 - ii. Digestion
- b. Mention 3 types of tropic movement (tropism) in plant
- 2a: Mention 3 organs involved in digestion of food in man.
- b. Where do these actions take place during digestion of food in man;
 - i. Final digestion of food
 - ii. Absorption of digested food nutrients
- C: Mention the enzymes involved in the digestion of food in the stomach

Physics

INSTRUCTION: Solve these questions on *foolscap* paper(s) and **submit within 4 days of resumption.**

1. Estimate the quantity of heat needed to melt 150g of ice at -10°C to water at 15°C .
$$\left(\begin{array}{l} SHC \text{ of water} = 4200 \text{ J/kg/K} \\ SHC \text{ of ice} = 2100 \text{ J/kg/K} \\ SLH \text{ of fusion of ice} = 336000 \text{ J/kg/K} \end{array} \right)$$
2. (a) A machine has velocity ratio and efficiency as 6 and 80% respectively, what effort would be needed to lift a load of 300N
(b) State four reasons why *mercury* is preferred as a thermometric liquid instead of *alcohol*

Civic Education

- 1) Define Popular Participation.
- 2) Types of Popular Participation.

Computer Science

1. Define a bus
2. List and explain the types of buses in computer.

C.R.S

Read 1 Kings chapter 15 vs 9-15 and chapter 22 vs 1-44. Write brief notes on Kings Asa and Jehoshaphat.

Visual Art

- 1: Draw and paint imaginative composition 'Road Block '
- 2: a. What are elements and principles of art?
(b). List and define them
- 3: Draw and shade a bunch of plantain placed beside a wall.

Dyeing And Bleaching

- 1 Define these terms
 - a. Motif
 - b. Pattern
 - c. Design
2. List design elements and define them.
3. Create a motif with a natural object of your choice. Size 25cm by 35cm

Agricultural Science

- 1a) What are 5 reasons why humanity should grow crops with high level of viability
- b) With the eyes of an elder look around the nearby families and standard of living as you travel homewards, Do you think all is well in our country's economy, Advise our leaders as an agricultural science student with 5 reasons and solutions on what you saw or noticed to raise and combat the poor standard of living that has befallen this blessed country.
- 2a) What are the four (4) major Agricultural challenges in your home town.
- 2b) Write out four proposal solutions to be submitted to any of the NGOs in Imo state seeking support and solution for the development of Agro production in your beloved Village.(home town) don't forget to tell them where you are from and the area you are talking about.