

ST. PETER'S COLLEGE, GARAKU.

2023/2024 ACADEMIC SESSION SECOND TERM TAKE HOME ASSIGNMENT

CLASS: S.S.S. 2 - INSTRUCTIONS: ANSWER ALL QUESTIONS.

MATHEMATICS

1. Solve the simultaneous equation

$$3x + 2y = 6 \text{ --- (1)}$$

$$xy = -12 \text{ --- (2)}$$

2. Simplify $\left(\frac{x^2}{2} - x + \frac{1}{2}\right)\left(\frac{1}{x-1}\right)$

3. Find the equation for the line passing through (-3, -1) and has gradient 6

4. Solve the inequality $x + 1\frac{1}{2}x \geq 1\frac{2}{3}x - 1\frac{1}{6}$

ENGLISH LANGUAGE

1. Read the comprehension passage carefully; on "war Against cultism" at page 80 and answer the questions on it from a-f
2. Define figures of speech (b) State 10 figures of speech with an example.
3. Write a drama script depicting corruption in the land. Not less than 450 words.

BIOLOGY

1. Draw and label fully the human respiratory system
2. Draw and label in detail the Nitrogen cycle
3. With the help of a well labeled diagram, describe the processer involved in urine formation (Hint: Diagram Nephron \Rightarrow)
4. Draw and label the Ticapia fish (b) Outline the various adaptive features that enable it survive in aquatic habitat.

PHYSICS

1. Using appropriate diagram, describe the bell-jar experiment.
2. When is astronomical telescope said to be in normal adjustment.
3. Describe the two major eye defects and how to correct them.

LITERATURE – IN-ENGLISH

- (1) Comment briefly on the use of symbolism in Alex Agyei Agyiris " unexpected Joy at Dawn"
- (2) Examine Niyi Osundare's use of similes personification and Onomatopoeia the poem " The leader and the led "
- (3) Write on the mood and tone of " The grieved land of Africa" by Agostinho Neto bringing out their significance
- (4) Discuss the character and role of Jimmy porter ."Look Back in Anger

COMMERCE

1. List and explain 5 documents used in connection with transportation.
2. Enumerate and explain 5 services provided by the Nigerian Postal Services (NIPOST).
3. What similarities and differences exists between trade associations and chamber of commerce?
4. Explain briefly the following:
(i) consortium (ii) cartel (iii) trust (iv) holding companies.

CHEMISTRY

- (1a). state five properties of iodine
- (1b). State three uses of iodine and describe how you would test for iodide and iodine
- (2a). State five properties of the Halogens
- (2b). Describe with diagrams the laboratory preparation of chlorine
- (3a). Describe the Nitrogen cycle with diagrams
- (3b). what are the allotropes of sulphur, state their physical differences
- (3c). State the oxides of sulphur and describe the laboratory preparation of sulphur (iv) oxide

COMPUTER STUDIES

1. Briefly explain the followings with an example(s) i. Computer file ii Data item
2. Draw a simple sketch on file structure and explain the four (4) types of file organization.

3. Write a short note on word processing and explain the use of the following Microsoft processors;
4. Microsoft Word i. Microsoft Excel ii Microsoft Access
5. a. Define system development cycle and
b. Use a diagram to illustrate the system development cycle..
- iv. Clearly state the function of the Executive, legislature, executive and the judiciary and where can they be located during the pre-colonial administration.

- 2a. What is colonial administration in Africa.
- 2a. Discuss various reasons for pre-colonial administration in Africa
- 2b. Discuss the British system of **INDIRECTRULE** and the French policy of **ASSIMILATION** in Africa
- 3a. Discuss various factors that led to the collapse of colonialization in Africa.
- 3b. Discuss Aba women riots of 1929 and state in clear terms the causes of the riots.

CIVIC EDUCATION

1. Mention five consequences of poverty
2. Give four reasons why people do not participate in politics
3. Identify four limitations of human rights
4. What are the conditions for the declaration of state of emergency?

AGRICULTURAL SCIENCE.

- 1a. Define crop disease b. Explain the concept of disease triangle.
2. Discuss armyworm as a pest of crop under the following headings:
 - i. crops attacked ii . Four damages done to crops.
 - iii. Preventive and control measures.
 - iv. Two side effects of using chemicals in controlling pests of crops.
3. Prepare a weed album of ten weeds using the following information:
 - i. common name ii. botanical name.

ENTREPRENEURSHIP - ANIMAL HUSBANDRY

- 1 Explain the meaning of feedstuff in animal nutrition
- 2 Identify and list the functions of animal feedstuff
- 3 State and explain the functions of carbohydrate and protein
- 4 Enumerate the nutritional values or functions of the various animal feed stuff
- 5 State the characteristics of a ration

GOVERNMENT

- 1a. What is pre-colonial administration in Nigeria?
- 1b. Discuss pre-colonial administration in Nigeria under the following
 - i. Pre-colonial administration in Yoruba land
 - ii. Pre-colonial administration Igbo land
 - iii. Pre-colonial administration in Hausa land

ECONOMICS

- 1 With the aid of a diagram explain the super normal profit of the monopolist (SSCE June 1996)
- 2 State eight (8) conditions or futures necessary for a perfect market
- 3 Explain five(5) types of market
- 4 Explain five(5) factors affecting demand
- 5 List ten(10) factors influencing the location of an industry
- 6 Discuss short run and long run cost.

FURTHER MATHEMATICS

Using the first principle differentiate with respect to x the function

$$f(x) = 2x^2 - 3x$$

1. Find from the first principle, the derivative with respect to x of $y = x^2$
2. Evaluate each of the following
 - (a) 9P_3
 - (b) ${}^{10}C_3$
3. (a) Copy and complete the table for the relation $Y = 2\cos 2x - 1$

X	0°	30°	60°	90°	120°	150°	180°
Y							

- (b) Using a scale of $2\text{cm} = 30^\circ$ on the x - axis and $2\text{cm} = 1$ unit on the y - axis, draw the graph of $y = 2\cos 2x - 1$ for $0^\circ \leq x \leq 180^\circ$
- (c) solve the equation $2\cos 2x - 1 = 0$
4. Make a truth table for each of the compound statements
 - (a) $p \vee \sim q$
 - (b) $(p \vee \sim q) \vee p$.