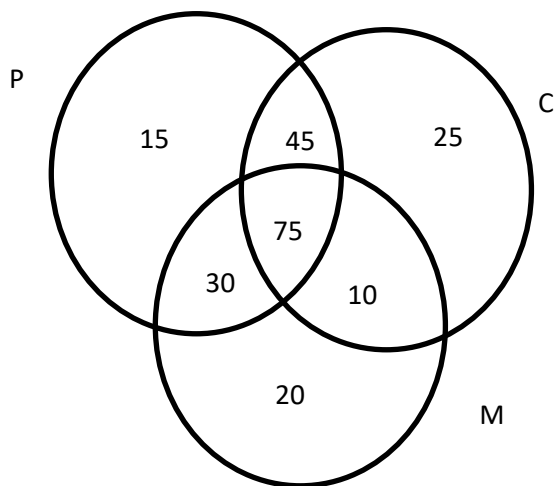**FATHER PHILIP AGU SPIRITAN ACADEMY, AKABO**

TAKE HOME ASSIGNMENT FOR SS 1 STUDENTS, FEBRUARY, 2025

ENGLISH LANGUAGE

1. a. What are Complex Tense Forms?

   b. Give all the tenses with complex tense forms.

2. With examples, write a short note on Antonyms and Synonyms.

MATHEMATICS

1. Simplify $2\frac{2}{3} - (2\frac{1}{4}$ of $\frac{4}{5})$
2. The venn diagram shows the number of students who studied physics, chemistry and mathematics in a certain school

How many students took at least two of the three subject

3.   Simplify $\sqrt{3} + \frac{1}{\sqrt{3}} + \frac{1}{\sqrt{12}}$
4.   A trader borrow N 20,000 from a bank to finance a project at the rate of 5% per annum for 2 years. Find the compound interest on the amount borrowed.
5.   R varies inversely as the square of P. wen R is 4, P is 8.
   a. What is the formula that connects R and P
   b. Find P when R = 16

FURTHER MATHEMATICS

1) If the 1st term of an AP is 6 and the 4th term is 12. (i) Find the common difference (ii) Form the 1st four terms of the sequence.

2) In an examination for the final year students of a school, 60 students offered Biology, 50 Chemistry and 48 Physics. 30 students offered Biology and Chemistry, 16 offered Biology and Physics, 22 offered Chemistry and Physics. If 10 candidates offered all three subjects. Find (a) the number that offered Biology only; (b) the number that offered Chemistry only; (c) the number that offered Physics only; (d) how many candidates that sat for the examination, assuming that each candidate sat for at least one subject.

ASỤSỤ IGBO

1. Kọwaa n' uju ihe bu nzisaozi nke ọdịnaala
 Kọwaa ma nye ọmụmaatụ ihe ndị a
i. Nzisaozi nke ọdịnaala
ii. Nzisaozi nke ugbua.
2. Deputa ihe ise na- ebute igba ndu n'ala Igbo.

CIVIC EDUCATION

1. Enumerate five consequences of cultism in the society.
2. Mention five cult groups and the year they were formed.

PHYSICS

1) Explain land and sea breeze as a natural application of convection.
2) Water in earth pot is at lower temperature than water in plastic or robber containers, why?

CHEMISTRY

1) State six postulates of Kinetic theory of gas
2) Briefly write on the following :
 i) Boyle's law
 ii) Charles law
 iii) General gas law
3a) What is oxidation number (state)?
 b) State the rules used in determining the oxidation state of an element in a compound

4) Water and carbon iv oxide are both coralent molecules, explain why :

a) Water is less volatile than CO2

b) Water is polar where as carbon iv oxide is non- polar

BIOLOGY

1. State the second law of thermodynamics and use the law to explain the flow of energy across different trophic levels in a food chain.

2. Explain the flow of energy through a food chain and how energy can be lost to the environment.

3. State and explain four ways in which modern agricultural activities may threaten the survival of species.

4. Discuss "SILOS" and "CRIBS".

LITERATURE-IN-ENGLISH

INSTRUCTION: Do the following assignment in your Literature-in-English long notebook.

Write out the African and Non-African WEAC and NECO Harmonized 2026 to 2030 recommended textbooks and poems for SSCE, JAMB, etc.

GEOGRAPHY

1. State five factors that retard tourism development in Nigeria.

2. State three ways in which groundnut cultivation has contributed to the economy of Nigeria.

CHRISTIAN RELIGIOUS STUDIES

Write a short note on the Sonship of Jesus Christ, making references of where the Sonship of Jesus Christ are mentioned in the Bible.

AGRICULTURAL SCIENCE

1 Explain the following terms as used in Edaphic factors affecting agricultural production in Nigeria:

i) Soil Reaction

ii)Soil Texture

iii)Soil Structure

iv)Soil Profile

v)Soil porosity

2 List and discuss 5 characteristic features that make weeds Very difficult to control.

DATA PROCESSING

1. Define BASIC programming.

2. Write down the rules of BASIC program.

ECONOMICS

i. What is efficiency of labour?

ii. State and explain 5 factors that affect efficiency of labour.

iii. What is mobility of labour?

iv. State and explain 5 factors affecting mobility of labour.

FINANCIAL ACCOUNTING

1. Distinguish between the ledger and the Journal.

2. State ten uses of the General Journal.