

HALLMARK SECONDARY SCHOOL, ONDO
END OF FIRST TERM HOLIDAY ASSIGNMENT FOR 2020/2021 SESSION

CLASS: SSS 1
SUBJECT: CHEMISTRY

Study the topic "Separation Techniques"

- Filtration, Decantation, Evaporation, Crystallization, Centrifuging, Precipitation, Distillation, Sublimation, Magnetization, Flotation, Sieving, Separating funnel, Chromatography.
- Determination of Boiling point & melting point.

2. Answer the following questions

- i. List three physical properties that are used as criteria for purity of substances.
- ii. Name a physical process used in the laboratory for:
 - a. Showing that a dye usually contains more than one components.
 - b. Obtaining concentrated ethanol from dilute ethanol separating a mixture of diesel oil and kerosene.

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SUBJECT: FURTHER MATHEMATICS

Attempt the following questions.

1. In a school of 300 students, 110 offered French, 110 Hausa language, 180 History, 40 French and Hausa, 50 Hausa and History, 60 French and history while 30 did not offer any of the three subjects.
 - a. Draw a Venn diagram to represent the data.
 - b. Use your diagram in (a) to find the number of students who offered
 - (i). all the three subjects;
 - (ii). History alone.
2. A binary operation * is defined on the set IR of real numbers by:
 $A * b = a + b - 2ab$, where $a, b \in \mathbb{R}$.
 - a. Is the operation * closed on the set IR? Give a reason for your answer.
 - b. Find the identity element of IR under the operation *
 - c. Determine the inverse under * of a general element $a \in \mathbb{R}$ stating which element has no inverse.

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SUBJECT: ENGLISH LANGUAGE

- 1a. Give ten synonyms and use them in sentences.
- b. Differentiate with examples clause and phrase.

- 2a. Give ten idiomatic expressions and use them in sentences.
- b. State the elements of sentence.

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SUBJECT: MATHEMATICS

Attempt the following questions

- 1. ABCDEF is a regular hexagon with O at its centre. What kind of quadrilaterals are ABCO and ACDF?

- 2. The base VW of isosceles UVW is produced to X. If $\angle UWX = 121^\circ$, calculate $\angle U$.

- 3. Simplify $402_{\text{five}} \times 13_{\text{five}}$ expressing your answer in the given base.

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SUBJECT: TECHNICAL DRAWING

Attempt the following questions.

- 1. Draw a line LM 95mm long. Mark a point 48mm above the line in such a position that it is 60 mm from M. Construct a perpendicular from the point to the line.

- 2. Divide a line 157mm long into five equal parts.

- 3. Divide a line 127mm long into three parts, in the proportions of 2 : 3 : 5. Give the lengths of these parts in millimeters.

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SUBJECT: YORUBA LANGUAGE

1. Daruko Isori ede ni ede Yoruba (meje)
2. Salaye daadaa lori marun-un
3. Apeere meta- meta fun okookan.

SUBJECT: AGRIC SCIENCE

1. Write a short note explaining how climate, soil organizations and weeds affect agricultural production.
 2. Briefly explain the following:
 - a. competition
 - b. parasitism
 - c. symbiosis
 - d. commensalism.
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SUBJECT: PHYSICS

Solve the following problems and read the understated topics against next term.

1. A motorcycle of mass 100kg moves round in a circle of radius 10m with a velocity of 5ms^{-1} . Find the coefficient of friction between the road and the tyres. ($g = 10\text{ms}^{-2}$)
 2. A car starts from rest and accelerates uniformly for 5 sec until it attains a velocity of 30ms^{-1} , it then travels with uniform velocity for 15 sec. before deceleration uniformly to rest in 10 sec.
 - (i). sketch the graph of the motion
 - (ii). using the graph above, calculate the
 - a. acceleration during the first 5 seconds.
 - b. deceleration during the last 10 seconds
 - c. total distance covered throughout the motion.
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SUBJECT: GEOGRAPHY

Study the earth's movement

- i. Earth Rotation
- ii. Earth's Revolution

Then answer these functions

- i. State the effects of earth rotation and earth's revolution.

ii. Draw a diagram to show different position of the earth during its revolution round the sun.

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SUBJECT: GOVERNMENT

1. Give 5 differences between a state and a nation.

2. Read and answer the following terms.

- i. oligarchy ii. monarchy iii. voting by proxy iv. diarchy

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SUBJECT: CIVIC EDUCATION

1. Read human rights with special interest in UDHR “Universal declaration of Human Rights.

2. State the importance of orderliness in the society.

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SUBJECT: FINANCIAL ACCOUNTING

Study the following topics at home

1. Principal book of account:

- i. Meaning of a ledger account
ii. importance/uses of a ledger
iii. Types of ledger accounts
iv. specimen of a ledger account

2i. Meaning of cash book

ii. Importance of cash book.

iii. Types of cash book

- a. One column cash book
b. Two column cash book
c. Three column cash book.

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SUBJECT: BIOLOGY

- 1a. Mention 4 differences between mitosis and meiosis.
- b. State 5 differences between plant and animal cells.
- c. Draw label plant and animal cells.

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SUBJECT: LITERATURE-IN-ENGLISH

1. Write on the following figures of speech with one example each.
 - a. Antithesis
 - b. Bathos
 - c. Zeugma
 - d. Litotes/meiosis
 - e. Epigram

SS 1 A

Required Books for 2nd Term

1. Exam Focus in Literature-in-English. (2021 – 2025)
2. Let me Die Alone by John Kolosa
3. Second Class citizen by Buchi Emechata.