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

CLASS:          SSS 3
SUBJECT:      CHEMISTRY

1a.     Define the term HYBRIDIZATION of orbital's in hydrocarbon.
b.      State all the types of hybridization with examples

2a.     State the physical and chemical properties of  ALKANES, ALKENES AND ALKYNES
b.      Differentiate between alkenes and alkynes.
c.      An organic compound X decolorizes brozine water but has no action on ammoniacal silver
        trioxonitrate (v) solution.  If its molar mass is 56g/mol.
(i).    deduce the molecular formula of X
(ii).   Name the compound X
(iii).  State the homologous series of X.

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SUBJECT:      MATHEMATICS

1.      Two points X and Y are on latitude $60^oN$ and their  longitudes are $17^ow$ and $28^oE$ respectively.
        If R = 6, 370km and  $\prod = \underline{22}$ , what is the distance between X and Y measured along the parallel of
        latitude.                        7

2.      Two towns P($\theta^oN$ , $7^oE$) and Q ($\theta^oN$, $29^ow$) are separated by a distance of 2, 002km, measured
        along the parallel of latitude.  If R = 6,370km and     $\prod \underline{22}$  , what is the value of $\theta$
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3.      The $10^{th}$ and $15^{th}$ terms of an A.P are $-5$ and $-7 \frac{1}{2}$ respectively.  What is the sum of the first 20
        terms?

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SUBJECT:      YORUBA

1.      Se liana idako fonetiiki fun gbogbo alijabeeto ede Yoruba.
2.      Daruko ise iran Yoruba mefa, salaye lekun-un re re, lori marun-un.

**SUBJECT:      C R K**

1.      He who does not work let him not eat.  Explain this statement with reference to Paul's letter to the Thessalonians.

2.      How did Paul resolve the question concerning the fate of the dead in Christ during the second coming of the Lord.

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**SUBJECT:      TECHNICAL DRAWING**

Attempt the following questions.

1.      Plot the locus of the end of a tant wire as it is unwound, in an anticlockwise direction, from the surface of a cylinder of 60 mm diameter.  Limit the locus to one complete turn:  state the name of the locus.

2.      A circular disc of 70 mm diameter rolls, without slipping, along a straight horizontal line.  Plot the locus of a point on the periphery of the disc for one complete revolution of the disc.  State the name of the locus.

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**SUBJECT:      GEOGRAPHY**

STUDY THE FOLLOWINGS:
(i).     Map Reduction
(ii).    Map enlargement
(iii).   Transportation in Nigeria.

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**SUBJECT:      AGRIC SCIENCE**
Study the following topics:

(i).     Animal Health management
(ii).    Crop and Animal improvement.

**SUBJECT:** **ENGLISH LANGUAGE**
**CLASS:** **SSS 3**

1a.  Differentiate between a clause and a sentence.
b.  State the elements of a sentence.

2a.  Give ten idiomatic expressions and use them in sentences.
b.  Give ten synonyms and use them in sentences.

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**SUBJECT:** **PHYSICS**

1.  Two people Emeka and Ngozi are 165m apart along a line at right angles to a wall which is 165m behind Ngozi, and Emeka fires a shot:  What s the interval?
(a).  Between the two reports heard by Emeka and,
(b).  The two reports heard by Ngozi.   Take the speed of sound as $330ms^{-1}$.

2.  A source of sound produces waves in air of wavelength 1.65m.  If the speed of sound in air is $330ms^{-1}$, what is the period of vibration?

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**SUBJECT:** **BIOLOGY**

1a.  What is a hormone?
b.  Outline the role played by adrenaline in an emergency situation.
c.  Name three animal growth hormones and two plant growth hormones.

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