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

CLASS: SS 3
SUBJECT: GEOGRAPHY

With the aid of diagram, describe the characteristics and mode of formation of any of the following:

a.   Yardang
b.   Rock pedestal
c.   barchans
d.   inselberg.

……

SUBJECT: BIOLOGY

1.   A sample of human blood was put in a test tube and allowed to spin in a centrifuge. The components of the blood sample were clearly separated.
a.   List the four main components of blood that would be in the test tube.
b.   Name the component of the blood that:
i.   would form the top layer in the test tube.
ii.   destroys pathogens
iii.   is biconcave in shape
iv.   would be relatively low in a hemophilic,
v.   is produced in the bone marrow.
vi.   is a thrombocytes.
vii.   is nucleated
c.   Mention three chemical substances transported by the blood component named in 1 (b) (i).
d.   List four diseases associated with blood.

………
……..

SUBJECT: AGRICULTURAL SCIENCE

With the aid of well-labeled diagrams write a concise essay on the circulatory and respiratory system of farm animals.

CLASS: 3
SUBJECT: FISHERIES

Write a concise essay on the following:

i.   Establishing a fish pond
ii.   Fish pond management.
………
……

SUBJECT: C R S

1.   What is the lesson in Paul's teaching or justification by faith to present day Christians?

2.   How did Paul's reference to Abraham place faith as superior to law in the salvation of man?

………
………

SUBJECT: HISTORY

1.   What do you understand by the "Kiriji War?"
2.   In what ways can the history of a country be rewritten?

………
………

SUBJECT: GOVERNMENT

1.   What are the ways to prevent military intervention in a country?
2.   What are the achievements of Nigeria in U.N.O?

………
….

SUBJECT: CIVIC EDUCATION

1a.   What is Political Apathy?
b.   What are the reasons for political apathy?

2a.   What is Democracy?
b.   List and explain five pillars of Democracy?

CLASS: SSS 3
SUBJECT: PHYSICS

1.   A particle in a medium undergoes simple harmonic motion. If a wave of speed 5.0oms^{-1}
is   moving through the medium with a period of 20μ secs; (microseconds), determine the:
a.   frequency of oscillation
b.   wave length of the wave.

2.   The periods of two pendulum clocks are 2s and 1s respectively. If they are set into
oscillation   simultaneously, calculate the beat frequency
3.   Sound waves from a distant loudspeaker strike a reflecting wall normally. A microphone
        connected to another loudspeaker shows maxima and minima of sound intensity as it is
        moved along a line perpendicular to the wall. If the distance between II successive
maxima s   2.50m, determine the frequency of the sound. Take the speed of sound as
340ms^{-1}
………
……..

SUBJECT: CATERING CRAFT PRACTICE

1a.   Define Bar
b.   List and explain the seven types of bar
c.   List 8 ypes of non alcoholic beverages.

2a.   Define alcoholic beverages
b.   List 6 types of alcoholic beverages
c.   State 4 types of wine.

………
……….

SUBJECT: HOME MANAGEMENT

1a. List 9 types of cleaning agents
b. List 5 types of waxes
c. List 9 local cleaning agent

2a. State 2 source of water.
b. List 5 uses of water in the home.

3. Give the meaning of the following electric circuit.
   (a). voltage (b). ohms (c). wattage (d). ampere (e). kilowatt
4. Use a diagram to illustrate a simple circuit.

CLASS: SSS 3
SUBJECT: ECONOMICS
The table below shows the tax payments of four income earners in a year. Use the information in the table to answer the questions that follow:

Income Earners	Income Base (N)	Tax payments X(N)	Tax payments Y(N)
Jawara	15,000	1, 500	1, 200
Ade	25,000	2,000	2,000
Eke	32,000	3,200	2,240
Audu	60,000	6,000	3,000

1a. Determine the percentage rate of taxation paid by

(i). Jawara in columns A and B.
(ii). Audu in columns A and B
(iii). Ade in column B
(iv). Eke in column B.

2. The following is the Trading Account for Nigeria in the 1984 (in millions):
a. Citizens private expenditure = N40m.
b. Government expenditures on goods and services = N17.5m
c. Various stock at home = N10.75m
d. Exports income paid abroad = N12.50m
e. Imports income paid abroad = N11.75m
f. Taxes on expenditures = N9.00m
g. Capital consumption = 6.20m
h. General subsidies = 0.75m

From the information given above:

(i). Calculate the national income for Nigerian for the year 1984.

(ii). State the name of the method used.

………

………

SUBJECT: CHEMISTRY

1a. Define Non-metals

b. State both the physical and chemical properties of non-metal

c. Differentiate between metals and non-metals.

2. State the reasons why hydrogen does not fit in any position in the periodic table.

3. State (i) physical and (ii) chemical properties of hydrogen.

5

SUBJECT: TECHNICAL DRAWING

1. A square A has 70mm long, and a second square B has a diagonal which is 90mm long. Geometrically find the length of the diagonal of a third square C which is equal in area to the squares A plus B.

2. Plot the locus of the end of a taut wire as it is unwound in an anti clock wise direction, from the surface of a cylinder of 60mm diameter. Limit the locus to one complete turn: State the names of the locus.

3. Given a 70mm dia circle 64mm from a line AB, draw a 44mm dia circle to a touch the given circle and the line.

………

…..

SUBJECT: MATHEMATICS

1. Line L passes through the points (0, - 3) and (6, 9).

a. Find the equation of line L

b. Find the equation of the line that is perpendicular to line L and passes through the point (0, 2)

2a. These are the first four terms of a sequence.

   5, 8, 11, 14

(i). write down the next term.

(ii). find the expression, in terms of n, for the nth term.

b. These are the first five terms of another sequence.

$\frac{1}{2}$, $\frac{3}{4}$, $\frac{7}{6}$, $\frac{13}{8}$ …

Find the next term.

……

SUBJECT: FURTHER MATHEMATICS

1.   Read vigorously "Trigonometric Ratio of Compound, Angle and Product formulae." And "Applications of Differential Calculus".

2.   If cos A = 3/5 and sin B = 7/25, where A is acute and B is obtuse, find without using tables, the   value of cos (A + B)

3.   Find the maximum and the minimum points of the curve defined by $y = x^3 - 6x^2 + 9x - 4$ and   sketch the curve.