# HALLMARK SECONDARY SCHOOL, ONDO

## THIRD TERM HOLIDAY ASSIGNMENT FOR 2021/2022 SESSION

## SS TWO

### PHYSICS

1. A density glass bottle contains 44.25g of a liquid at $0^0$C and 42.02g at $50^0$C. Calculate the real cubic expansivity of the liquid.
   (Linear expansiivity of glass = $1.0 \times 10^{-5}K^{-1}$)

2. A glass bottle containing a liquid of mass 2.0g is placed in a water bath containing water at temperature $20^0$C. The water is then heated to $80^0$C and it is observed that 0.6g of liquid in the bottle has boiled away. Calculate the real cubic expansivity of the liquid. (Take the cubic expansivity of the bottle to be 9 x 10+-$^6K^{-1}$)

3. The density of mercury is $1.36 \times 10^4 gm^{-3}$ at $0^0$C. Calculate its value at $100^0$C and at $22^0$C. Take the cubic expansivity of mercury as equal to $180 \times 10^{-6}K^{-1}$

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### GOVERNMENT

1. Enumerate the achievements of nationalist movement in Nigeria.

2. Trace the origin and the history of Federalism in Nigeria

### GEOGRAPHY

1a. four instruments used in measuring the element of weather and climate
b. Describe how temperature and rainfall can be measured

2. Write short on; a convectional rainfall
b. Orographic rain rainfall
c. Lapse rate
d. Temperature inversion

**BIOLOGY**

1a. What is irritability?

b. Complete the table below by stating the type of response elicited by each of the given action

| | Action | Type of response |
|---|---|---|
| 1. | Euglena moving towards source of light | |
| ii. | Opening and closing of Mimosa plant leaves | |
| iii. | Mosquitoes avoiding repellants | |
| iv. | Earthworm moving away from light | |
| v. | Sperm cell moving towards chemical substance of an ovum | |
| vi. | Four o'clock plant at 4:00pm | |
| viii. | Shoot of bean seedling growing towards sunlight | |

**CIVIC EDUCATION**

1. Outline the process of democratalization in Nigeria

2. What do you understand by true federalism?

3. State features of a true federal state.

**YORUBA**

1. Ki ni aranmo?

2. Ki ni Isunki

3. Ko apeere marun – un marun – un fun okookan awon isori – oro wonyi

   i. Oro – ise
   ii. Oro apejuwe
   ii. Oro asopo
   iv. Oro oruko
   v. Oro aropo oruko

**C .R.S**

1. Why did Jews accept to be baptized and by John
2. Those who are well have no need of a physician, but those who are sick . Trace the event that led to the above statement.

**ECONOMICS**

1a. Explain the term capital market
b. How is the capital market different from the stock exchange?
c. What are the advantages of the capital market?

2a. What is : (i) Commodity money?] ii. Token money? iii. Fiduciary issue? iv. Quasi money?

b. State any four functions of money

3. The table below shows the various possible combinations of military and civilian goods produced by a country, using the available resources and technology. Use the table to answer the questions that follow.

| Military Goods (ones) | Civilian Goods (tones) |
|---|---|
| 0 | 200 |
| 20 | 160 |
| 40 | 120 |
| 60 | 80 |
| 80 | 40 |
| 100 | 0 |

a. Draw the production possibility curve (PPC)
b. Indicate points S and K at witch production is not feasible
c. Indicate points M and N at which resources are not efficiently utilized
d. What does the downward slope of the PPC indicate
e. Why is production not feasible at points S and K?

**HOME MANAGEMENT**

1a. Define family crisis
b. List 7 types of family crisis
c. Define stress
d. State fives ways of coping with stress

2a Define communication

b. State 7 element of communication
c. List 5 importance of communication in the family



**CATERING CRAFT AND PRACTICES**

1a. Define stock, sauce and soup
b. List 5 point to consider when making stock
c. List 3 types of stock
d. List 10 ways in which sauce can be thickened
e. List 7 point to note when making soup
f. List 5 function of soup.

**FURTHER MATHEMATICS**

1. Read, vigorously "Sequences and Series"

2. The third term of a linear sequence (A.P is 16 and its sixth term is 34. Find the second term

3. The fourth term of an exponential sequence is 108 and the common ratio is 3
   a. Calculate the value of the eighth term of the sequence
   b. Calculate the sum of the first five terms of the sequence.

4. The sum of the first n terms of a series is given by $S_n = n^2 + 2n$. Find the rth term and the first three terms of the series.

**TECHNICAL DRAWING**

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

2. In a 100mm diameter circle draw the quadrilateral ABCD, making AB a chord, 92mm long, CD a chord, 57mm long, and the eagle BCD $95^0$. What is the length of the chord AC?

3. The perimeter of a triangle measures 211mm. The sides are in the ratio of 2: 3: 4. Draw the triangle and state its names.

**AGRIC SCIENCE**

1a. Write the scientific names of the following: Cowpea, Tomato, Okra, Cocoa and Rubber
b. Write a shot not on the following: Pastoral farming and crop rotation.

**FISHERIES**

1. Write a comprehensive essay on five (5) types of fish pond.



**HISTORY**

1. What do you understand by the term “Decentralized state’?

2a. List five decentralized states
b. What are the features of decentralized state?

3. What do you understand by the Kiriji war?

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**CHEMISTRY**

1. Define the following terms
i. Allotropy ii. polymorphism iii. Destructive distillation of coal iv. Coal
2. Give
(i). 3-examples of Crystalline form of allotropes of carbon.
(ii). 2-examples of allotropes of sulphure
(iii). 4-importance and products of destructive distillation of coal.
(iv). Give 3-examples of polymorphism.
3. State all the properties and uses of
i. Graphic ii. Diamonds and (iii). Coal.
4. State the components of
(i). Producer gas (ii). Water gas
b. State the uses and raw materials needed for producer and water gas.