

HALLMARK SECONDARY SCHOOL, ONDO
SECOND TERM HOLLIDAY ASSIGNMENT FOR SS 2 2018/2019 SESSION

SUBJECT: BIOLOGY

CLASS: SS 2

Read and write on Excretion and Excretory system

Questions to Answer

- 1a. What is Excretion?
- b. Identify the various parts of human urinary system.
- c. Draw and label the kidney

- 2a. Draw the structure of Nephron.
- b. Explain the process involved in urine formation.

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SUBJECT: ENGLISH LANGUAGE

- 1a. Give ten idiomatic expressions and use them in sentences.
- b. Give ten synonyms and use them in sentence.

- 2a. What is a sentence?
- b. Give the functional sentence types.
- c. Give the structural sentence types.

- 3a. What is a Nominal clause? Give the functions of a noun clause
- b. What is an adjectival clause?
- c. State the relative pronouns.

- 4. State the features of the following.
 - (i). informal letter
 -)ii). formal letter
 - (iii). semi-formal letter

SUBJECT: MATHEMATICS
CLASS: SS 2

Provide solutions to your second term examination question

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SUBJECT: DATA PROCESSING

Read the following topics.

- (i). Networking
- (ii). Internet

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SUBJECT: C. R. K

Read "The signs of Jesus" on pageof Christian Religious Knowledge for Senior Secondary School by H.A Adique and discuss any nature miracle of Jesus and stole the significance of the miracle.

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SUBJECT: CIVIC EDUCATION

Write on: The local government civil servants.

SUBJECT: FINANCIAL ACCOUNTING
CLASS: SS 2

Read the following topics at home and answer the under listed questions

1. The meaning of depreciation of fixed Assets.
 2. Reasons for charging depreciation.
 3. Causes of depreciation.
 4. Methods of charging depreciation.
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2. Manufacturing Account.
 - (i). What is Manufacturing account?
 - (ii). Purpose of Manufacturing costs
 - (iii). Analysis of Manufacturing costs.
 - (a). Prime cost (b). factory overhead (c). Non-manufacturing cost

Questions to answer.

- 1a. What is depreciation?
 - b. Explain four reasons for charging depreciation.
 - c. List five methods of charging depreciation.
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- 2a. What is Manufacturing account?
 - b. Explain three reasons for preparing manufacturing account.
 - c. List all the cost elements that are under each of the following
 - (i). Prime cost
 - (ii). Factory overhead
 - (iii). Non manufacturing cost.

SUBJECT: FISHERY

Study the following topics

- (i). Fish pond preparation.

- (ii). Fish pond management
- (iii). Monitoring water quality.

-4-

SUBJECT: ECONOMICS
CLASS: SS 2

Study the topics below and the questions that follow:

- Elementary treatment of utility Theory.
- Price determination.

Questions:

1. Explain utility maximization of consumer for single commodity and multiple commodities.
2. With the aid of diagram, describe the relationship between Total utility (TU) and marginal Utility (MU).
3. Given: $Q_d = Q_s$
 $Q_d = 20 - 2P$
 $Q_s = 6P - 12$

Determine the equilibrium price and quantity bought and sold at that price.

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SUBJECT: GEOGRAPHY

1. Discuss the erosional works of rivers.
2. Discuss the causes, effects and solution of any named environmental hazard.
3. Draw a map of Nigeria, on it show and name;
 - i. Kainji dam
 - ii. One mining town
 - iii. Cross river basin
 - iv. Adamawa Highland

SUBJECT: DYEING/BLEACHING
CLASS: SS 2

Read and write briefly using illustrations

- a. Principles of Design (Meaning)
 - b. Balance
 - c. Repitition
 - d. Variety
 - e. Dominance
 - f. Harmony
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SUBJECT: VISUAL ARTS

1. Read and write briefly on the following ancient arts
 - a. Art of Oceania
 - b. Chinese Art.
 - c. Egyptian Art.
 - d. Pre-historic Art.
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SUBJECT: PHYSICS

Study S. H. M (simple harmonic motion) and concentrate on the following sub-topics

- simple
- Energy in S. H. M
 - Relationship between Tangential speed, angular speed and radius period of pendulum.
 - Period of a loaded mass.

Note: Look for WAEC /JAMB questions on the topics and solve them (at least three questions and write the year of each question)

-6-

SUBJECT: AGRIC. SC.
CLASS: SS 2

1. Study the following topics
 - a. Circulatory system of farm animals
 - b. Reproductive system in farm animals
 - c. Process of eggs formation in poultry.
 - d. Ovulation, Heat period, mating, Gestation period, and parturition.
 - e. Process of milk let down and reproductive hormones.
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SUBJECT: CHEMISTRY

1. Read and study carefully the following
 - a. Water under the following heading.
 - Definition water
 - Types of water
 - Structure of water
 - Treatment and supply of municipal water
 - Hardness of water
 - Types of hardness
 - The method of removing the types of hardness.
 - Disadvantages of hard water.
 - Chemical and physical properties of water.
 2. Write short notes on the topic read.
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SUBJECT: YORUBA

Ko aroko ti ko din ni Oodunrun (300 words) eyo oro lori:

AYEYE OJO IBI MI TI O KOJA.

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SUBJECT: HISTORY

1. STUDY THE EARLY PHASE OF THE British rule 1900 – 1914.

-7-

SUBJECT: TECHNICAL DRAWING
CLASS: SS 2

Study vigorously the following topics:

1. Scales
 - Scale and its uses
 - Construction of scale: plain, diagonal
2. Enlargement and reduction of plane figures
3. Equal areas of similar figures
 - Theorems of equal areas.
 - Construction of plane figures of equal areas.

Answer the questions that follows:

- a. Construct a square of length 50mn.
 - b. Construct a rectangle equal in area to the square.
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SUBJECT: ELECTRONICS.

Study vigorously the following topics:

1. Alternating current circuit.
 - Sinusoids
 - Effective value, peak value, and form factor.
 - Reactance (capacitive and inductive)
 - Impedance
 - Resonance and resonant frequency
2. Power in AC circuit
 - Real power, reactive power, and apparent power
 - Power factor
 - Power factor correction
 - Bandwidth and quality factor.

Answer these questions:

1. Draw the circuit diagram of a voltage doubler
2. Draw the circuit diagram of an AND gate using semiconductor diodes.
3. Determine the peak value of a 240 – V mains supply

-8-

SUBJECT: COMMERCE

CLASS: SS 2

Read the following topics at home.

1. Limited Company
 - (a). Meaning
 - (b). importance
 - (c). features
 - (d). formation etc.

 - 2(a). Shares of quoted companies
 - (b). Meaning
 - (c). Types
 - (d). Debentures, types of debentures

 3. Public Enterprises
 - (a). Meaning
 - (b). Features
 - (c). Importance
 - (d). Advantages and disadvantages
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SUBJECT: GOVERNMENT

Study and write briefly on the following

- (i). Macpherson Constitution
 - (ii). Littleton Constitution
 - (iii). Independence Constitution
 - (iv). First Republic Constitution
 - (v). 2nd Republic Constitution
 - (vi). 1989 Third Republic Constitution
 - (vii). 1999 Constitution of the fourth Republic.
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SUBJECT: COMPUTER STUDIES

Read “System Development Cycle

1. Define system development cycle.
2. List all stages of SDC and explain them

SUBJECT: LITERATURE-IN-ENGLISH

Read the following texts

1. “A Raisin in the Sun” by Lorraine Hansberry.
2. Lonely Days by Bayo Adebawale

Questions

1. Who sacrifices the most in “A Raisin in the Sun”.
2. Comment on the naming and the description of the widow’s Road in “Lonely Days”.

-9-

SUBJECT: FURTHER MATHEMATICS – SS2

Study the following topics carefully and solve the questions below:

❖ Differentiation:

- Product rule
- Quotient rule
- Implicit differentiation
- Derivative of trigonometric, logarithmic and exponential functions; Higher derivatives

❖ Application of differential calculus:

- Tangent and Normal to curves
- Increasing and decreasing function
- Rate of change
- Rectilinear motion
- Maximum and minimum values
- Curve sketching

Questions:

1. Differentiate the following with respect to x
 - a) $y = (x^2 - 3x + 5)(2x - 7)$
 - b) $y = \frac{1-x^2}{\sqrt{x-1}}$
 - c) $y = \frac{(4x-5)^2}{2x^2}$
2. An object is projected vertically upwards. Its height, h m , at time t seconds is given by $h = 20t - \frac{3}{2}t^2 - \frac{2}{3}t^3$. Find
 - a) The time at which it is momentarily at rest.

- b) Correct to two decimal places, the maximum height reached by the object.
3. If $x^2 + 3xy + 2y^2 = 3$, find the gradient of the curve at the point $(-1, 2)$
4. The radius r of a circular disc is increasing at the rate of 0.5 cm/sec . At what rate is the area of the disc increasing when its radius is 6 cm
5. From each of the four corners of a square metal sheet 4 cm by 4 cm , a square of side $x \text{ cm}$ is cut off. The remainder is then formed into an open box.
- Show that the volume of the box is $V = 16x - 16x^2 + 4x^3$.
 - Find the values of x for which the volume contained by the box is minimum.
6. a) Sketch the curve $y = (x + 2)(x - 2)(x - 4)$
 b) Find the maximum and the minimum value of the function to the nearest whole number.

Note: Use a new 40 leaves exercise book for the solution to the questions.

-10-

SUBJECT: MATHEMATICS 2 – SS2

Study the following topics carefully and solve the questions below:

❖ Polynomials:

- Addition, subtraction, multiplication and division of polynomials
- The remainder's and factor's theorem.

Questions:

- Given that $f(x) = 2x^3 + px^2 + qx - 5$, find the values of the constants p and q such that the remainder is 8 when $f(x)$ is divided by $x + 1$ and 35 when it is divided by $x + 2$.
 b) Find the remainder when $f(x)$ is divided by $x - 2$.
- If $(x - 1)$ is a factor of the polynomial $f(x) = 4x^3 - 4x^2 - x - k$ where k is a constant.
 a) Find the value of k .
 b) Factorize $f(x)$ completely and state the zeros
 c) Find the remainder when $f(x)$ is divided by $(x - 3)$.

Note: Use a new 40 leaves exercise book for the solution to the questions.

