HALLMARK SECONDARY SCHOOL, ONDO

THIRD TERM HOLIDAY ASSIGNMENT FOR 2021/2022 SESSION

SS THREE

MATHEMATICS

1. If x is a universal set. Find that $1<x \leq 9$ and U and V are subjects of x> Such that U contains odd number in the range and V contains even numbers in the set

Find.

i. Members of set X

ii. Members of set U

iii. Member of set V

iv. U U V

v. $U^1N\ V^1$

2. X ($30\ ^0$N, $100\ ^0$E) and

Y (30^0N, 120^0 W) are two points on the surface of the earth.

ii. Draw the each or spare and locate the point X and Y^0

iii. Calculate the distance between X and Y measured along the parallel of latitude.

(Take R= 6400km)

iv. If it takes 2hours to move from X to Y. Calculate the speed needed to move from X to Y.

3. If the point of oscillator $T= 2\pi\sqrt{L/g}$

i. make the subject of formula

ii. make g the subject of formula

iii. Calculate the long B in M if T=2.005s and g= 10 ms

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ENGLISH- LANGUAGE

1a. Write out all the synonyms and antonyms in your WAEC series from 1988-2021

b. Differentiate between a finite and non-finite verbs with examples

2a. Distinguish between a clause and a sentence, with copious examples

b. Give thirty idiomatic expressions and use them in sentences

3a. Give the type of subordinate clauses with five examples each

b. Differentiate between phrasal verbs and verbal verbs with copious examples

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FURTHER MATHEMATICS

1. If $\overrightarrow{PQ}$ = 2i-3j and PR = -3i-5j. Find

i. RQ ii. $\overrightarrow{QR}$

1ii. Cosine of angle between $\overrightarrow{PQ}$ and QR

2. If the binary operation A is defined between a and b. Such that axb = a+b -2ab

i. Find -2 x-3

ii. The identity element in the operation

iii. The inverse of the element 2

iv. Is the operation commutative?

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LITERATURE-IN-ENGLISH

1. Write out 50 literary devices, their meaning and example
2. Write comprehensive notes on the following questions

i. Give an account of the ascension of Yoko to Chiefdom in the text "Let me Die Alone"

ii. How does the character of Musa contribute to the development of the play

iii. Discuss the character and role of Lakunle in the text "Lion and the Jewel"

iv. How does the cunning act of Baroka trap Sidi in the text "The Lion and the Jewel?"

v. Examine Leopold Senghor's "Black Woman" as a magnitude poem

vi. Write on any three (3) poetic devices in Dylan Thomas "Do Not Go Gentle into that Good Night".

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YORUBA

1. Ko aroko ti ko din ni oodunrun-un (300) oro,
   Ohun oju wa loju ri
2. Se akosile awon isori oro ninu ede Yoruba ki o si salaye oro apejuwe nikikun

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GEOGRAPHY

Study the following topics

1. Earth's internal processes
2. Denudation processes
3. Oceans
4. Tourism in Nigeria
5. Location, position and Size of African.

Then answer these questions:

1a. What is a Karst region?

b. Discuss the characteristic of the Karst region

c. Name four surfaces and four underground feature of a karst region

d. Discuss one feature of each from the surface and undersurface or karst region

2a. What is a spring?

b. With the aid of diagrams, describe three ways by which springs may be formed

c. Explain the term vulceanicity

d. Describe the characteristics and mode of formation of these features

i. Batholiths ii. Dyke ii. Composite cone

3a. Define the term mass wasting?

b. Describe two types of mass wasting

c. State three effects of mass wasting
d. Draw a diagram to show the relief features of an ocean floor
e. Highlight three main characteristics of the continental shelf
f. In what three ways is the continental shelf of importance to man?
4a. Describe the location, position and size of Africa
b. Define a landlocked country
c. What are the problems associated with land locked countries?

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BIOLOGY

Study the following topics

1. Reproductive system in flowering plants and vertebrates
2. Formation of New organism; fruit
3. Sense organs
4. Genetics

Then answer these questions

1a. Draw a female reproductive system of flowering plant
b. State the feature of wind pollinated and insect pollinated flowers
c. Explain the process of fruit formation in flowering plant
d. Outline different types of fleshy fruit
e. List four types of placentaion in flowering plants
2a. Draw a longitude section of human eye (8-10cm) and label fully
b. Explain the process of image formation in the human eye
c. Highlight how the mammalian on skin regulate body temperature on hot and cold day
d. State the cares of human eyes
3a. Define the following
ai. Genes ii. Chromosomes iii. Alleles Iv. Locus

V. Dominant gene vi. recessive gene vii. Phenotype and genotype gene

viii. Filial generation
bi. State Mendel's first law of inheritance
ii. A pure breed of brown coloured cat (BB) was crossed with a pure breed by white colored cat (bb). By means of crossing, show the genotypic and phenotypic ratios of F_1 and F_2 generations

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ECONOMICS

A1. Define public finance, explain its objectives, and discuss the structure government revenue and public expenditure by illustrating with Nigerian data.
2. Distinguish between direct and indirect taxation

3. Differentiate between recurrent and capital expenditure, and analyze the effects and incidence of taxes

B1 Explain the concepts of budget surplus, balanced budget and the component of national debt

2. Explain the concept of and criteria for revenue allocation (including resources control) in Nigeria and associated problems

C1. Explain the meaning of different national income components.

2. Discuss different ways of measuring national income and their associated problem

3. Explain the short-coming of currently used national income concepts

4. Discuss the recent changes in the structure of Nigerian National income.

PHYSICS

1. Read and study carefully the following under light waves:

a. Sources of light waves

b. Luminous and non-luminous bodies

c. Rays and beam of light

d. Transmission of light and rectilinear propagation of light

e. Formation of shadows

f. Edipe and its types (with diagrams)

g. Pin-hole camera and its applications

i. Reflection of image by a plane surface

j. Formation of image by a plane mirror

k. Image formed by inclined mirror with solved examples

l. Rotation of a mirror

2. Solve the following questions

i. Explain the working principle of a pin-hole camera

ii. An object 50m tall is placed in front of a pin-hole camera with length 20cm. What is the height of the image and the magnification produced? How is the magnification affected?

iii. Calculate the height of a building 30cm distance from a pin-hole camera which produces an image 250cm high, if the distance between the pin-hole and screen is 50cm

iv. The screen of a pin-hole camera is a square, of side 0.16m and it is 0.15m behind the pin-hole. The camera is placed 11m from a flag staff and positioned so that the image of the flag staff is formed centrally on the screen. The image occupies three-quarters of the height of the screen. What is the height of the flag staff?

v. If the angle of incidence of a ray of light on a plane mirror is 40^0, what is the deviation of the incident ray after reflection?

vi. Draw a diagram to illustrate the reflection at a plane surface, label the incident ray, the reflected ray, the normal, the angle of incidence, the angle of reflection

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FINANCIAL ACCOUNTING

Read the following:

-Single entry and incomplete record

- meaning of single entry and incomplete record

- Features of single entry
- Disadvantages of single entry
- What is statement of affairs?

2. Accounts for non-profit making organization
- Meaning of receipt and payment account
- Meaning of income and expenditure account

FISHERY

1a. Define fish packaging
b. State 5 qualities of good packaging materials
c. State 5 packaging materials
d. State 6 marketing channels
2a. Define fish distribution
b. List 3 types of distribution
c. Write a short note on distribution channels and types

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TECHNICAL DRAWING

Read the following topics vigorously

1. Special curves: Ellipse, parabola, hyperbola, eyelid, epicycloids, hypo eyelid, involutes, helix, link mechanism
2. Parts of a building: foundation, roof, door, and windows

Answer these questions

1. A circle of diameter 35mm rolls on the circumference of a circle of diameter 140mm. Plot the locus of a point on the smaller circle as it rolls up to one complete renovation without slipping
2. Using diagrams only, describe the following:

a. Strip foundation
b. raft foundation
c. pile foundation
d. pad foundation
e. gable roof
f. hipped roof
g. butterfly roof
h. shed roof
i. battened door
j. ledged door

GOVERNMENT

Answer these questions

1a. Define foreign policy
b. Explain five factors that influence the foreign policies of Nigeria
2. Mention three advantages of interaction among nations

CHEMISTRY

Read and write note on:

1. Non- Metals

(a) Define Non-Metals

(b) State all the general physical properties of non-metals

(c) State all the general chemical properties of Non-Metals

2. Hydrogen and its compound

(a) Laboratory and chemical preparation of Hydrogen

(b) Hydrogen and the activity series

(c) Physical and chemical properties of hydrogen.

(d) Uses of Hydrogen

(e) Test for Hydrogen and Isotopes of hydrogen

(f) Compound of hydrogen: The hydrides

3. The Halogen family

(a) Define the halogens

(b) State the general properties (Physical and Chemical) of halogen family.

(c) State the uses of halogens

(d) Chlorine and its compound

i) State the occurrence of chlorine

ii) State and explain the laboratory and industrial preparation of chlorine.

iii) State the physical and chemical properties of chlorine

iv) State the uses of chlorine.

v) What are chlorides: Mention some chloride and state the laboratory preparation, physical and chemical properties of chlorides.

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AGRICULTURAL SCIENCE

Study the following topics:

1. Animal health
2. Animal improvement
3. Animal husbandry: cattle, goal, poultry and pig.

Then answer these questions:

1. (a) What is an animal disease?
   (a) State five factors that can inactivate pathogens and five factors that can pre-dispose animal to disease.
   (b) Explain these diseases
   i) New castle diseases
   ii) Rinderpest
   iii) Avian Influenza
   iv) Red water disease
   v) Coccidiosis

Under these headings:

(i) Causal organism
(ii) Animal attack
(iii) Mode of transmission
(iv) Symptoms
(v) Prevention / Control

COMPUTER STUDIES

1. Define Network Topology
2. List 3 types of Network Topology
3. Define Internet and list 5 networking devices
4. What is Logic Gates.