

SS 2 HOLIDAY ASSIGNMENTS

SS 2 MATHEMATICS

1. Use logarithm tables to evaluate the following:
 - a. 71.056×9.1837
 - b. $\frac{95.3 \times \sqrt[3]{18.4}}{129^5 \times 2.03}$
 - c. $\frac{\sqrt[3]{38.22 \times 2.964}}{\sqrt{8.637 \times 6.285}}$

2. A bag contains 28 red balls and 8 blue balls. If a ball is chosen at random, what is the probability that it is:
 - a. red?
 - b. blue?
 - c. either red or blue?

3. If $\tan \theta = \frac{8}{15}$, find the value of
 - a. $\sin \theta$
 - b. $\cos \theta$
 - c. $\frac{\sin \theta + \cos \theta}{\cos \theta (1 - \cos \theta)}$

SS 2 English Language:

Comprehension

New Concept English for SS 2: Pages 80- 81: Questions (a - h)

Summary

In four sentences, one for each, state four effects of the removal of fuel subsidy in Nigeria.

Grammar

State the grammatical name and function of each if the underlined expressions:

1. I am disappointed that you beat the girl.
2. They ran to catch the train.
3. The manager in the bank issued a cheque.
4. This is the dress which I bought.
5. He found the money where he kept it.

Speech

New Concept English for SS 2: Page 2: Exercise 1: questions-1-10

SS 2 ECONOMICS

- 1a. Define the term "Expression".
 - b. With the aid of diagram, differentiate between linear graph and quadratic graph.
 - c. If $Y = bx + c$, when x ranges from -2 to $+3$, $b = 0.5$ and $c = 7$, complete the table of the equation and draw the graph.
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- 2a. Define Cost of production.
 - b. Using diagram and formula where necessary, explain the following:
 - i. Marginal cost
 - ii. Average Cost
 - iii. Total Cost
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- 3a. Distinguish between the following Concepts:
 - i. Explicit cost and Implicit Cost
 - ii. Opportunity cost and Money cost
 - iii. Diminishing marginal returns and diminishing marginal utility
 - b. Private Limited Company and Statutory Corporation

SS 2 BIOLOGY

- 1a. Write short note on agricultural classification of plants.
 - b. Define the following terms:
 - i. annual
 - ii. perennial
 - iii. biennial
 - c. Differentiate between thallophytes and spermatophytes
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- 2a. Briefly explain any two types of biological association.
 - b. State any three differences between parasitism and predation
 - c. Explain the interaction between dog and tick.

- 3a. Draw a well labeled and detailed nitrogen cycle
- b. State five uses of water in plants
- c. Define the following terms in water cycle:
 - i. precipitation
 - ii. evaporation
 - iii. transpiration

SS 2 COMPUTER STUDIES

- 1a. As a well-trained computer engineer, draw and properly label a floppy disk.
 - b. State two (2) differences between a floppy disk and a compact disk.
 - c. Construct a truth table for OR gate.
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- 2a. Define the term “logic gate”.
 - b. Construct a truth table for AND gate.
 - c. Enumerate any two (2) differences between AND gate and NOT gate
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- 3a. Convert 2.5 MB to bytes
 - b. Identify any two (2) differences between NAND gate and NOR gate.
 - c. Construct a truth table NAND gate.

SS 2 CIVIC EDUCATION

- 1a. What do you understand by citizenship education?
 - b. Highlight any three (3) importance of Citizenship education as a school subject.
 - c. Write short note on the following agents of Citizenship education:
 - i. The School
 - ii. The Home
 - iii. Mass media
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- 2a. Define the term national consciousness.
 - b. Explain any three (3) factors that can promote national consciousness in Nigeria.
 - c. Differentiate between custom and tradition.

- 3a. What are human rights?
- b. Explain any three (3) characteristics of human rights that you know.
- c. Highlight any three (3) measures that can be put in place by the government to safeguard the rights of the citizens.

SS 2 CHEMISTRY

1. **A** is $0.125\text{mol dm}^{-3}\text{H}_2\text{SO}_4$. **B** is a solution containing Xg dm^{-3} of **NaOH**. **A** was put in a burette and titrated against 25.00cm^3 portions of **B**, using methyl orange as indicator.

- ai. Complete the table of burette readings below:

Burette Reading	1stTitre	2ndTitre	3rdTitre
Final Reading(cm^3)	20.40	40.70	
Initial Reading(cm^3)	0.00		0.00
Volume of acid used(cm^3)		20.30	20.50

- ii. Calculate the average volume of acid used.
 - b. Write a balanced equation for the reaction between solution **A** and solution **B**.
 - c. Calculate the concentration of **B** in mol dm^{-3}
- 2a. In tabular form, give **three (3)** differences between physical change and chemical change.
 - b. Define stoichiometry.
 - c. What is a standard solution?
- 3a. Calculate the mass concentrations in g dm^{-3} of the NO_3^- ions in 0.69mol dm^{-3} trioxonitrate(V) acid, HNO_3 . (N=14, O=16)
 - b. What volume of hydrogen is produced at s.t.p. when 2.60g of zinc reacts with excess hydrochloric acid according to the following equation:

$$\text{Zn}_{(s)} + 2\text{HCl}_{(aq)} \rightarrow \text{ZnCl}_{2(aq)} + \text{H}_{2(g)}$$

[Zn=65; 1 mole of a gas occupies 22.4dm^3 at s.t.p.]
 - c. Define a molar solution.

SS 2 PHYSICS

- 1a. State the parallelogram law of vector addition.
- b. State **four (4)** differences between scalars and vectors.
- c. Calculate the resultant of two forces 20N and 15N inclined at an angle 90° to each other.
- 2a. State three (3) Newtons' laws of motion.
- b. Two forces 30N and 40N act at right angles to each other. Determine by scale drawing, the magnitude and direction of the resultant force, using a scale of $1\text{cm} = 5\text{N}$.
- c. Briefly explain the following terms;
 - i. Resultant force;
 - ii. Equilibrant force;
 - iii. Triangular law of forces.
- 3a. Define the following terms;
 - i. Speed
 - ii. Velocity
 - iii. Acceleration
- b. Three vectors 3ms^{-1} , $\text{N}45^\circ\text{W}$, $\text{N}12\text{ms}^{-1}\text{W}$ and $5\text{ms}^{-1}\text{S}$ act at a point.
 - i. Sketch a vector diagram to illustrate the given information
 - ii. Calculate the resultant of the vectors.
- c. A body start from rest and accelerate uniformly at 5ms^{-2} until it attains a velocity of 25ms^{-1} . Calculate the time taken to attain this velocity.

SS 2 AGRIC SCIENCE

- 1a. Define Farm surveying.
- b. Describe the following surveying equipment:
 - i. Ranging pole
 - ii. Gunter's chain
- c. State two functions of each of the following:
 - i. Measuring tape
 - ii. Prismatic compass

- 2a. Explain farmstead.
 - b. State four importance of farm surveying.
 - c. State four ways of maintaining surveying equipment.
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- 3a. State four reasons for planning farmstead.
 - b. Explain two factors influencing siting of a farmstead.
 - c. State four principles of farmstead planning.

SS 2 GEOGRAPHY

- 1a. State five processes of wind erosion
 - b. Discuss the mode of formation of any two features
 - c. What are glacials?
- 2a. Explain the koppens and Greek classification of climate.
 - b. Outline five advantages of Koppen's classification
 - c. State five advantages of Greek's classification of climate
- 3a. Explain weather and climate
 - b. Discuss the various elements of weather and climate.
 - c. Outline five importance of weather and climate.

SS 2 FURTHER MATHEMATICS

- 1a. The remainder when the polynomial $f(x) = ax^3 + 3x^2 + bx + 15$ is divided by $(x - 1)$ is -12, when it is divided by $(x - 2)$, the remainder is -21. Find the values of the constants a and b.
 - b. Given that $m = i - j, n = 2i + 3j$ and $2m + n - r = 0$, find r .
 - c. The third term of a G.P. is 63 and the fifth term is 567. Find the sum of the first five terms.
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- 2a. If $6\cos^2\theta + 2\sin^2\theta = 5$, show that $\tan^2\theta = \frac{1}{3}$
 - b. $n_{C_2} = 15$, find the value of n.
 - c. Find the equation of the circle centre $(2, -3)$, radius 4 units.

3a. The table below gives the distribution of heights in metres of 100 students:

Height	Frequency
1.40 – 1.42	2
1.43 – 1.45	4
1.46 – 1.48	19
1.49 – 1.51	30
1.52 – 1.54	24
1.55 – 1.57	14
1.58 – 1.60	6
1.61 – 1.63	1

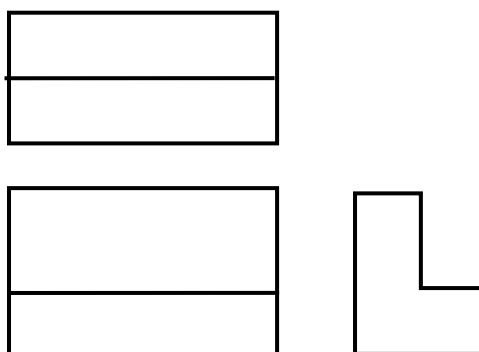
Calculate

- (i) Mean height
- (ii) Mean Deviation

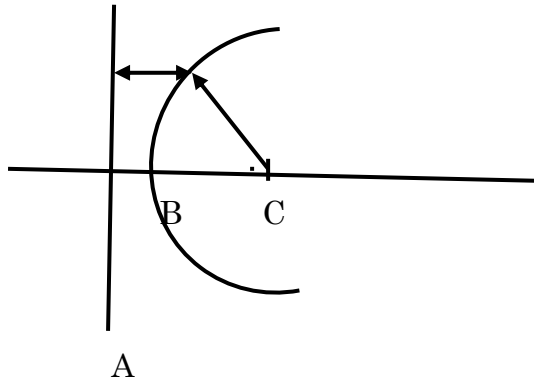
- b. Given that $a = 5i + 4j$ and $b = 3i + 7j$, evaluate $(3a - 8b)$.
- c. Calculate the distance between points $(-2, -5)$ and $(-1, 3)$.

SS 2 TECHNICAL DRAWING

- 1a. Construct involute of a circle with radius 15mm.
 - b. Make a free hand sketch of claw hammer and state its functions.
 - c. List five special curves in technical drawing
- 2a. If line AB of 110mm represents the perimeter of a triangle whose sides are in ratio 3:4:5. Draw and name the triangle
 - b. The figure below is the orthographic view of a block. Draw the isometric view of the block using freehand sketch



- c. Name the parts labelled A, B and C in the figure below.



- 3a. Neatly make a sketch of the curve of intersection of two equal cylinders intersecting at right angle.
b. Construct Archimedean spiral with radii 25mm and 80mm.
c. Use ANY method to construct an ellipse with axes 100mm and 80mm.

SS 2 DATA PROCESSING

- 1a. Define data model.
b. Explain the concept of data modeling.
c. What is conceptual data modeling?
2a. Who was Dr Edger Grand Codd?
b. Wrote short notes on Microsoft access Tables.
c. Describe how to create Microsoft Access form.
3a. What is entity?
b. Mention three (3) components of entity-relationship.
c. Explain two (2) types of relationship.

SS 2 ANIMAL HUSBANDRY

- 1a. Differentiate between nutrition and nutrients
b. List five feed ingredients that can be used to formulate feed for livestock.
c. Define the term "Ration" as used in animal nutrition.
2a. How can ruminant animal utilize fibre? Discuss briefly.

- b. Differentiate between essential and non-essential amino acids with one examples each.
- 3a. Provide the full names of the following vitamins:
 - i. Vitamin A
 - ii. Vitamin K
 - iii. Vitamin B12
- b. Discuss calcium and phosphorus under the following;
 - i. One function
 - ii. Deficiency
 - iii. Sources.

SS 2 COMMERCE

- 1. Write short note on the following:
 - a. Sole Proprietorship
 - b. Partnership
 - c. Public Corporation
- 2a. What is cooperative society?
- b. State any four features of cooperative society.
- c. Explain any one of the features stated above
- 3a. State any three advantages of cooperative society.
- b. State any three disadvantages of cooperative society.
- c. What is trade?

SS 2 FINANCIAL ACCOUNTING

- 1a. Define Depreciation.
 - b. Mention four (4) factors responsible for depreciation of fixed assets.
 - c. Identify three (3) element of depreciation.
- 2a. A machine cost #50000. It was used for 4 years which after it was sold for #35,000. Using a straight line method, calculate the depreciable value of the asset.
 - b. List two (2) methods of depreciation.
 - c. Outline any four depreciable assets.
3. The following information were extracted from the books of Ade and Segun enterprises for the month of July.

	#
Sales ledger balance	23,230
Purchases ledger balance	18,180
Sales journal	93,290
Purchases journal	78,470
Sales returns	1,955
Customers cheque dishonoured	350
Discounts allowed	547
Credit notes issued	345
Bad debts	183
Debit notes received	284
Cheque received from customer	85,700
Discounts received	735
Cash paid to suppliers	83,000

You are required to prepare:

- a. Sales ledger control account
- b. Purchases ledger control account.

SS 2 GOVERNMENT

- 1a. Explain the arms/organs of government.
 - b. In order of hierarchy, identify the court system of Nigeria.
 - c. Highlight any four (4) importance of law.
 - d. Enumerate the components of mother justice.
- 2a. What is delegated legislation?
 - b. State any four (4) rationales for delegated legislation.
 - c. Outline any four (4) criticisms leveled against delegated legislation.

- 3a. Define decentralization.
- b. Explain the two (2) forms of decentralization.
- c. What is centralization?

SS 2 IṢÉ ÀṢETILÉWÁ KIN-IN-NI

1. fun àròkọ aláríyànjíyàn ní oríkì.
2. kọ àpẹẹrẹ orí òrò àròkọ aláríyànjíyàn márùn ún.
3. şàlàyé èsin òde òní.

SS 2 VISUAL ARTS

- 1a. Explain Nigeria art tradition
 - b. Highlight five importance of art
 - c. Mention five aspect of applied art.

- 2a. Explain five types of art
 - b. Mention Five classification of colour
 - c. Draw the colour wheel

- 3a. Explain perspective
 - b. State four types of perspective
 - c. What is drawing?

SS2 LITERATURE-IN-ENGLISH

Turning and turning in the widening gyre

The falcon cannot hear the falconer;

Things fall apart; the centre cannot hold;

Mere anarchy is loosed upon the world,

The blood-dimmed tide is loosed, and everywhere

The ceremony of innocence is drowned;
The best lack all conviction, while the worst
Are full of passionate intensity.

Surely some revelation is at hand;
Surely the Second Coming is at hand.
The Second Coming! Hardly are those words out
When a vast image out of Spiritus Mundi
Troubles my sight: somewhere in sands of the desert
A shape with lion body and the head of a man,
A gaze blank and pitiless as the sun,
Is moving its slow thighs, while all about it
Reel shadows of the indignant desert birds.
The darkness drops again; but now I know
That twenty centuries of stony sleep
Were vexed to nightmare by a rocking cradle,
And what rough beast, its hour come round at last,
Slouches towards Bethlehem to be born?

The following questions are based on the above poem by William Butler Yeates

1. What would be your title for this poem?
2. Pick out three figures of speech from this poem, with two examples each in the poem. Indicate the lines the examples are extracted from.
3. Does it have blank verse or free verse?
4. State its rhyme scheme.
5. What's the major theme of this poem?

SS2 DEVOIR

- 1a. Expliquez l'existentialisme de Jean-paul sartre environ de trente mots.
- b. Discutez les types de l'existentialisme de Jean-Paul sartre.

c. Parlez de mouvement de Dadaïsme à peu près trente mots.

2. Conjugaison des verbes:

a. Conjuguez les verbes suivants au passé composé.

i. Regarded

ii. Partir

iii. Dormer

b. Conjuguez les verbes suivants au présent à l'indicatifs.

I. Lancer

ii. Tomber

iii. Sortir

c. Conjuguez les verbes suivants à l'imparfait.

I. Manger

ii. Habiller

iii. Souligner

3a. Écrivez cinq couleurs en Français et puts en Angais.

b. Nommez cinq pays Francophones en afrique.

c. Formez une phrase chacune avec les verbes suivants:

I. Marcher

ii. Vendre

iii. Parler.

SS 2 FURNITURE MAKING

1a. List and explain the functions of **THREE (3)** hand tools used in wood preparation.

b. Make a neat freehand sketch of a check defect in timber.

c. Differentiate between safety and maintenance.

2a. Explain the concept of maintenance operations of saws.

b. State **TWO (2)** safety precautions to be observed when using hand and machine tools during timber preparation.

c. What do you understand by “Timber preparation”?

- 3a. What is an accident? State **TWO (2)** causes of accidents in the workshop.
- b. State **TWO (2)** advantages of kiln seasoning over natural seasoning of timber.
- c. Briefly discuss the effects of friction on wood work tools.

IRS SS 2

- 1a. Succinctly discuss the story of Prophet Yusuf.
 - b. Discuss the treaty of Hudaibiyyah.
 - c. Mention the names of any fifteen (15) of the companions that migrated with the Prophet during the Hudaibiyyah.
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- 2a. Produce the transliteration of Hadith 38 of An Nawawi's collection.
 - b. Translate the Hadith (in 2a) above.
 - c. State five (5) moral lessons that can be drawn from the hadith above.
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- 3a. Explain the following terms:
 - i. Halal
 - ii. Haram
 - iii. Sodaqah
 - b. Write short notes on the following:
 - i. Wajib
 - ii. Makruh
 - iii. Mandub
 - c. Write out the transliteration and translation of Suratul Fil.

SS 2 CHRISTIAN RELIGIOUS STUDIES

- 1a. Discuss in detail the first account of creation as contained in Genesis Chapter 1.
 - b. Give an account of the second creation as contained in Genesis chapter 2.
 - c. How did God show that He is the controller of the universe?
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- 2a. Narrate the story of Joseph in the land of Canaan.
 - b. Recount how Joseph came to assume leadership role in Egypt.
 - c. Describe the crossing of the red sea and God's role in the episode.

3a. Describe the main features of the covenant between God and Abraham in the land of Canaan.

b. Examine any three (3) reasons for the establishment of a new covenant during the time of prophet Jeremiah?

c. State any two (2) consequences faced by the Israelites for breaking God's covenant.