SS2 HOLIDAY ASSIGNMENT

**ECONOMICS**

1. A. What is national budget?

B. List and explain the types of budget

C. What is incidence of law

D. Define Distribution strategy.

1. A. Differentiate between livestock farming and peasant farming and give three(3) examples each.

B. What do you understand by the board industry?

C. Lst and explain four types of industries you know.

D. list and explain 5 factors influencing the location of an industry.

1. A. i. Define public finance

 ii. State 5 objectives of public finance

 iii. State 5 objectives of fiscal policy?

B. i. What is fiscal policy? (

 ii. What are the sources of government revenue.

 iii. Define Government expenditure.

C. List and explain the various classes of Government expenditure.

1. A. With the aid of a diagram, differentiate between Progressive tax and Regressive tax.

B. List and explain the two(2) types of tax we have.

**MATHEMATICS**

1. Evaluate $\frac{508.6^{3}×\sqrt{87100}}{7.95^{2}×\sqrt[3]{9010}}$

b. work out the following logarithm numbers

i. $\overbar{5}.2671+\overbar{4}.9061$

ii. $\overbar{2}.4936-\overbar{1}.8427$

1. PQ is a chord of a circle of a circle. The radius of the circle is 10cm and the distance of the mid-point of the chord from the centre of the circle o, is 6cm
	1. Calculate the length of the chord PQ
	2. Calculate the angle chord PQ subtends at the centre of the circle
2. Solve -6t-2=-$5t^{2}$ using completing the square method
3. Find the sum and the product of the roots of the equation $4x^{2}-5x-7=0$
4. Round off 0.07891 to the nearest (i)1d.p(b)3d.p(iii)2s.f(iv)1s.f
5. A student measured the height of a pole as 5.98m.the percentage error made in measuring the height is 5%. If this measurement smaller than the exact measurement find the actual height of the pole.
6. Solve the equation $\frac{2}{3x-1}+\frac{1}{2x+1}=\frac{3}{8}$

b. make the expression $x^{2}+8x a perfect square and hence factorise the results$

**FURTHER MATHEMATICS**

1a. Given the quadratic equation:

 $ax$2 $+ bx+c=0$,

 Derive the quadratic equation

 $x=\frac{-b \pm \sqrt{b^{2}}- 4ac}{2a}$

b. Find the value of the constant k for which the equation: 2x2 + (k+3)x+2k =0 has equal roots

2a. If $∝and β$ are the roots of the equation 4 + 3x – 2x2 =0, find the value of $\frac{1}{∝^{2}}$ + $\frac{1}{β^{2}}$

b. If the sum of the squares of the roots of the equation: ax2 + bx + c =0 is 1, show that b2 = 2ac + az

3a. Write down the binomial expression of (1+x)4 using pascal triangle

Bi. Using the binomial theorem, expand (1+2x)5 , simplifying all the terms

II. Use your expansion in b(i) above to calculate the value of (1.02)5 , correct to six significant figures.

**GEOGRAPHY**

1. a. define corrosion

b. name and explain two(2) features at the upper course of a river

1. a. define glacier

b. name and explain two(2) features of upland glaciations

1. a. what is ox-bow lake

b. name and explain two features formed at the middle course of a river

1. a. state the conditions necessary for the formation of a delta

b. name and explain four(4) advantages of koppen’s classification

1. write short geographical notes on two of the following
2. types of delta
3. drainage pattern
4. barchares
5. seif dunes

**GOVERNMENT**

1. Highlight any four roles played by local newspapers in the struggle against colonial rule

b. Define nationalism

2. Enumerate five (5) factors that aided the growth of nationalistic activities in West Africa

3. List four pre – independence constitution of Nigeria

b. identify any three ways in which the Clifford constitution was significant to Nigeria

4. Highlight three merits of the Richards constitution

b. Identify any two factors that accounted for the breakdown of the Macpherson constitution

5. Outline three features of the 1960 independence constitution

b. State two weaknesses of the 1979 constitution.

**BIOLOGY**

1a. What is metamorphosis?

b. List and explain two types of metamorphosis

c. Concisely explain filter feeding

2a. Define the following: (i) parasitism (ii) saprophytic feeding

b. Outline 5 adaptations of animals in a desert

c. By means of a chart, show the food chain in the grassland

3. Concisely describe the process of digestion in birds

4a. List the 5 groups of plants under botanical classification and give examples of plants found under each

b. List ten (10) classes of plants under agricultural classification with examples

5a. State five (5) adaptations of plants in a desert

b. State five (5) adaptations of plants in grassland

**PHYSICS**

1a. Define simple harmonic motion and give three examples of simple harmonic motion 4marks

 b. A body of mass 20g is suspended from the end of a spiral spring whose force constant is 0.4NM­-1. The body is set into motion with amplitude 0.2m. Calculate;

i. the period of the motion

ii. Frequency

iii. Angular speed

iv. The maximum velocity

v. The maximum acceleration

**LITERATURE**

1. Define the following terms

a. Dramatic Irony

b. Protagonist

c. Dialogue

d. Aside

2. List four types of drama that you know

3. List and explain three elements of drama

4. Define the following

a. Simile.

b. Personification.

c. Pastoral poem.

d. Epic poem.

**CHEMISTRY**

1. (ai)Write an equation for the laboratory preparation of chlorine

(ii) List the products of the reaction of chlorine with dilute sodium hydroxide solution

(iii) What is observed when moist blue litmus paper comes in contact with chlorine?

(iv) Calculate the volume of chlorine at s.t.p. that would be required to react completely with 3.70g of dry slaked lime according to the following equation: Ca(OH)2(s) + Cl2(g) = CaOCl2.H2O (H=1, O=16, Ca=40; 1 mole of gas =22.4dm3 at s.t.p.)

(bi) Give two physical properties of chlorine.

(ii) State what happens when zinc dust reacts with dilute hydrochloric acid. Give the reason why gold dust is unaffected by the acid.

1. (ai) State the effect of thermal pollution on the level of dissolved oxygen in rivers, giving your reason.

(II) Classify each of the following oxides as acidic, basic, neutral or amphoteric: ZnO, CO, NO2

(iii) Give the formula of the acid anhydride of each of the following: I. HNO3 II. H2SO4 (

bi) Explain why atmospheric air does not rekindle a glowing splint, whereas, the air boiled out water does.

 (ii) Calculate the volume occupied by 0.25 mole of oxygen at 27oC and a pressure of 2.02 x 105N/m2. (1 mole of gas =22.4dm3 at s.t.p, standard pressure = 1.01 x 105N/m2)

1. (a) Give the cause and environmental hazard of each of the following occurrences:

(i) Greenhouse effect

(ii) Depletion of ozone layer

(bi) Using appropriate equations outline the production of hydrogen from coke and steam

 (ii) State the method used in collecting a dry sample of hydrogen in the laboratory

(iii) List two substances that can be used in the laboratory to dry hydrogen

1. (ai) What is the difference between a saturated solution and a super saturated solution?

(ii) Define solubility in mol/dm3

 (iii) What is observed when chlorine is bubbled into a solution of iron

(II) chloride?

(b) If the solubility of KNO3 at 0oC is 1.33moldm-3, determine whether a solution of KNO3 containing 30.3gdm-3 at 0oC is saturated or unsaturated.

1. (ai) Define oxidation in terms of electron transfer

(ii) Give two differences between a metallic conductor and an electrolyte

(iii) State three applications of electrolysis

(bi) What is an electrochemical cell? Give an example

(ii) Explain why galvanized iron is more resistant to corrosion than tin-plated iron.

**ENGLISH LANGUAGE**

**SECTION A (COMPREHENSION)**

**Read the following passage carefully and answerthe questions on it**

It seemed that Joe had just about had it with his wife of three years. He no longer thought her attractiveor interesting; he considered her a poor house keeperwho was overweight, someone he no longer wanted to live with. Joe was so upset that he finally decided on divorce.But before he served her the papers, he made an appointment witha psychologist for the specific purpose of finding out how to make life as different as possible for his wife.

The psychologist listened to Joe's story and then gavehim advice. "Well, Joe, I think I have got the perfect solutionfor you. From tonight when you get home, I want you to starttreating you wife as if she were a goddess. That is right, a goddess.I want you to change your attitude towards her completely. Start doing everything in your power to please her. Listen intently to herproblems, help around the house, and take her out for dinner on weekends.I want you to pretend that she's a goddess. Then after two months of this wonderful behaviour, just pack your bags and leave her. That should get to her!”

Joe thought it was a tremendous idea. That night he started treating his wifeas if she were a goddess. He began to do things for her. He brought her breakfast in bedand had flowers delivered to her for no apparent reason. They read books to each other at nightand Joe listened to her as never before. It was incredible what Joe was doing for his wife. He kept it up for the two full months. After the allotted time, the psychologist gave a call at home. "Joe" he asked, "How's it going? Did you file for divorce? Are you a happy bacheloronce again?" "Divorce?" asked Joe in surprise. "You must be kidding! I'm married to a goddess. I'venever been happier in my life. I'd never leave my wife in a million years. In fact, I'm discoveringnew, wonderful things about her every single day. Divorce? Not on my life!” The psychologist hung up wearing a knowing smile.

1. Why did Joe consult a psychologist?
2. What did Joe think he would achieve by following the psychologist's advice?
3. What is ironic about Joe's answer to the psychologist's question towards the end of the passage?
4. From this episode, what do you think had really been wrong with Joe's marriage?
5. ..." it was a tremendous idea"

What grammatical name is given to this expression, as it was use in the passage?

1. " I'd never leave my wife in a million bears"

What figure of speech is contained in the sentence above

1. Why do you think the psychologist's wore a knowing smile
2. For each of the following words, find another word or phrase which means the same and which can replace it as it is used in the passage.
3. Attractive
4. Upset
5. Solution
6. Wonderful
7. Apparent
8. Allotted.

**SECTION B (SUMMARY)**

**Read that passage carefully and answer the questions on it**

On a global basis, no statistics are adequate to suggest the magnitude of the revolution in education today. In the United States information services, libraries in the third world, about thirty million people annually use the facilities provided. The agency distributes eight Million books every year. The Soviet Union also distributes over one hundred and fifty million books to developing countries all over the world. But together these programmes do not come near to meeting the world demand.

Mere facts and figures cannot convey the human passion for learning. In the English-speaking teaching countries, children have been known to have sold the shoes off their feet to pay their way to classes. In Africa, a tribal chief was turned away from enrolling in class because there were no more chairs. The next day, he and a contingent of his fellow chief were waiting outside carrying his own chair.

The revolution is not limited to the developing world. In the United States there are more than fifty million students attending more than 185000 public and private school at all levels. There are more students today in the United States than there were city residents only forty years ago. We have entered an age in which education is not just a luxury gives some men an advantage over others. It has become a necessity without which a person is defenseless in this complex industrialized society. Levels of education which were once regarded with awe have now become common place. And Jobs which once could be filled with possession of strength and native intelligence now call for a college degree. We have truly entered the country of educated man.

It is a mistake, however, to confuse skill with education. A man who has been taught only to hold a job has not been educated; he has only been trained. And the man who has merely been trained is not fully qualified to take his place in a free society as a fully participating citizen. An all-round education should equip the learner for any challenges he may encounter.

Education of course, is not something that is acquired just in college. It is a life - long task and when I think of death, I think of it as the moment when the brain ceases to inquire and expand

1. In four sentences, one for each, summarize the instances given by the writer to show that education is spreading at a very rapid rate.
2. In two sentences, one for each, state the reasons given by the writer to support the view that education is changing fast.

**CIVIC EDUCATION**

1. Explain human right abuse

1b. State 4 forms of human right abuse

1c. List 4 human right organization

2. Define drug abuse

2b. List 4 types of drugs that can be abused

2c. Highlight 4 symptoms of drug abuse

3. Explain the meaning of pressure group

3b. Mention 4 types of pressure groups

3c. State 4 methods used by pressure groups in achieving their aims

4. Define rule of law

4b. List and explain 4 principles of rule of law

4c. State 4 ways through which rule of law protects human right

5. Define leadership

5b. State 4 qualities of a good leader

5c. List 4 government institutions in Nigeria