

QUEEN OF THE ROSARY COLLEGE ONITSHA
HOLIDAY ASSIGNMENT FOR SS2 2021/2022

CHEMISTRY (1) An explanation of scientific enquiry is called ___ 2 We study chemistry to acquire knowledge ___ 3 Mention three career prospects in chemistry 4 List two adverse effects of chemistry 5 State one reason why air is a mixture 6 A sample of orange is suspected to have been contaminated with a yellow dye, which of the separation techniques can be used to detect the dye? 7 Classify the following as a physical change or a chemical change a Rusting of iron (b) dissolution of salt in water (c) decaying of leaves (d) cracking of petroleum fractions (e) melting of candle wax 8 Find the number of neutrons in an atom represented by ${}^{45}\text{X}$ 9 Determine the molecular mass of the following compound i Ammonium tetraoxosulphate (vi) $(\text{NH}_4)_2\text{SO}_4$ ii Sodium trioxocarbonate (iv) decahydrate $(\text{Na}_2\text{CO}_3 \cdot 10\text{H}_2\text{O})$ iii Copper tetraoxosulphate (vi) CuSO_4 (N=14, H=1, S= 32, O=16, Na=23, C=12, CU=64) 10 Calculate the percentage composition by mass of each of the element in calcium hydroxide (Ca=40, O=16, H=1) 11 State Charles law (a) The volume of given mass of a gas is 40cm^3 at 27°C . what is the volume at 90°C . if the pressure remains constant 12 If 11g of a gas occupies 5.6cm^3 at Stp. Calculate its vapour density (1-0 mole of gas at Stp occupies 22.4dm^3) 13 Name two common indicators and state the colour of each in both acidic and basic medium 14 Name one method that can be used to prepare insoluble salts. 15 The property of an acid is due to the presence of ___ ions 16 Mention the gas evolved when dilute HCl is added to Na_2CO_3 solution 17 Define basicity of an acid b. Give the basicity of the following acids i. H_2SO_4 (ii) HCl (iii) CH_3COOH 18. List three types of amorphous carbon 19. Highlight two differences between diamond and graphite 20. Why is carbon (iv) oxide used in fire extinguisher 21. Bubbling of excess carbon (iv) oxide into calcium hydroxide (lime water) solution results in the formation of ___ 22. Name the fuel produced in each case when i. steam is passed over red hot coke ii. air is passed over red hot coke 23. Mention one amorphous carbon used in making shoe polish and printer ink 24. Give one example of basic oxide 25. State two chemical properties of carbon (ii) oxide. **PROJECT SS 2 Asc and 2 Bsc CONSTRUCTION OF WOODEN RETORT STAND SS 2 Csc and 2Dsc MAKE A CHART OF MODERN PERIODIC TABLE**

COMPUTER STUDIES (1) Mention and explain five characteristics of a computer. 2) Differentiate between word processing and word processor 3) Mention three things necessary for word processing. 4) Differentiate between RAM and ROM. 5) Mention three differences between data and information 6) List any five BASIC statement and their uses. 7) List and explain any three functions of operating system. 8) Convert 2 kilobytes to byte. 9) Using word processing, create calendar for the month of July and August, save with your name in a flash drive. (to be submitted on resumption) **PROJECT**-In album form, draw these logic gates and construct the truth tables. I) AND II) OR III) NAND IV) NOR V) NOT

ANIMAL HUSBANDRY 1 Write out the procedure for processing the following animal products. i Hide and skin into leather ii Egg into egg powder iii Milk into milk powder. 1(a) State six classes of animal feed (b) Discuss sources of each class of animal feed mentioned in 2 above. 2 (a) Define livestock ration. 3 (b) Write out three methods of formulating ration. 4 (c) Using the first method, write out the calculation procedure for preparing a well-balanced ration which contains 16% protein and soya bean meal containing about 40% protein is available. 5 (a) State the major differences between pasture and rangeland. 6(b) State seven methods of pasture and rangeland improvement. 7 Write out steps involved in preservation of forage crops into (i) Hay (ii) Silage. **Project:** Prepare forage album containing 5 grasses and five legumes you know very well, write their common names and their botanical names.

ASUSU IGBO 1 Kowaa ihe bu olundi na Igbo Izugbe 2 Deputa njirimara olundi na Igbo Izugbe ato, ato imaara. 3 Kpoota oru aka ise eji wee mara di ndi Igbo 4 Olee oria ano na-emekpa ndi ntorobia ahu. 5 Gini bu atumatu okwu? 6 Deputa atumatu okwu ato imaara 7. Kedu ihe bu akara edemede 8. Deputa udi ezi na ulo ato ndi Igbo nwere 9. Kowaa ihe bu edemede ma deputa ihe mgbakwasi ukwu ano a na ahu n' edemede **PROJECT** Were ihe eserese gosiputa akorongwaa ise ejiri mara dibia odinaala. Were kadiboodu mee ya n'udi album.

AGRICULTURAL-SCIENCE 1 Mention two major classes of plant nutrients and list five (5) examples of each class 2 Mention two deficiency symptoms of Nitrogen, phosphorus potassium and calcium 3 Explain the meaning of irrigation and state two types of irrigation system 4 Define farm surveying and list ten surveying equipment 5 Explain the meaning of Agro-forestry under the following: A agrisilviculture B silviculture C. silviaquaculture D. multipurpose trees 6. Discuss five (5) importance of ornamental plant 7. State the difference classes of feed and define ration 8. The table below is an individual demand of maize

Price	quantity of maize demanded
10	20
8	40
6	60
4	80
2	100

i Find the supply curve for the maize and explain the relationship between price and supply ii Find the demand curve of the above questions **PROJECT CONSTRUCT A BATTERY CAGE SYSTEM IN POULTRY SYSTEM,**

PHYSICS 1. A stone whiles at the end of a rope 30cm long, makes 10 complete revolution in 2 seconds. Find: a. The angular velocity in radian per second. b. The linear speed. c. The distance covered in 5 seconds. 2. Draw the velocity – time graphs of the following a. Uniform velocity. b. Uniform acceleration. c. Uniform retardation. 3a. List any four ways electric current can be generated. b. A potential difference of 8V produces a current of 0.2A to flow in a wire. Calculate the resistance of the wire. 4a. State five properties of field lines. b. Two masses 80kg and 50kg are separated by a distance of 0.2m. If the gravitational constant is $6.6 \times 10\text{Nm}^{-2}\text{kg}^{-2}$. Calculate the gravitational attraction between the two masses. 5a. List three properties of liquid that rises up in the capillary tube and three properties of liquid that falls in the capillary tube. b. Give any four differences between crystalline and amorphous substances. 6a. State Hook's law b. A spring is stretched to 25cm by a load of 50N, what will be its length when stretched by 100N load assuming that the elastic limit is not reached? **Project 1.** Provide one spiral spring for physics practicals. 2. In an album form, a. Write the parallelogram 's law of vectors. b. By method of scale drawing, obtain the resultant vector of two vectors 12cm and 9cm inclined at angle 90° to each other.

BIOLOGY 1a, Explain briefly the cell theory b, Name two scientist who contributed to the development of the cell c, Make a labelled diagram of a typical plant cell d, List three ways in which a typical plant cell differs from a typical animal cell 2a, With reference to food chain, explain the role of the following a, green plants b, herbivores c, carnivore s d, decomposers 2b, Describe the process of mitosis c, What are the importance of mitosis 3a , Explain the following terms First aid, Artificial respiration, Dislocation, Haemorrhage 3b, State three objectives of first aid

1, Explain the procedure for administering the mouth to mouth method of artificial respiration. 3c, State three signs of Dislocation .d, Name two ways of stopping bleeding from an open wound **PROJECT** In an album, draw the following (a) Binary fission in amoeba (b) Multiple fission in amoeba (c) Conjugation in spirogyra (d) Fragmentation in spirogyra Draw and label the digestive systems of the following (a) Earth worm (b) Cockroach (c) Bird (d) Rabbit

CIVIC EDUCATION 1. Write the full meaning of the following i UDHR ii. EFCC iii. NDC iv. ECOWAS v. CDC 2. Give five reasons why constituted authority is important in society. 3a. Explain the term political Parties b. State five importance of Political Parties 4. List and explain five ways of promoting orderliness 5a. Define Cultism b. State three reasons why incidence of Cultism constitutes a national problem c. List five reasons why eradication of Cultism in schools will promote National development 6. Highlight five relevance of power sharing among the three tiers of government in Nigeria. **PROJECTS** Make a diagram of people participating in politics Topic: Popular Participation

ECONOMICS Instruction: Use graph book to answer question 1 In a certain market, the quantity demanded of rice per kilogram(kg) per week is represented by the function, $Q_d=60-2p$ whereas the quantity supplied is represented by the function, $Q_s=20+2p$ (a) Find the equilibrium price and the equilibrium quantity. (b) If the values of P are (i)10 (ii)15 (iii)20 (iv)25 (v)7. Find the equilibrium price and quantity from the graphs of the demand and supply functions. 2 A village consists of twenty (20) households with the following annual incomes:

INCOMES				
30	20	50	40	60
40	40	50	20	60
80	40	20	20	70
40	70	30	40	80

(a) Determine the (i) mean income (ii) mode income (iii) median income (b) What is the range of income distribution? 3. (a) What is meant by production? (b) Explain with examples the following types of production. (i) primary (ii) secondary (iii) tertiary. 4. Economic problems arise because a country's resources are limited in relation to her unlimited wants. Identify and explain these economic problems. 5. Define ageing population and explain its effects on an economy. 6. Distinguish between labour and labour force. (b) State four reasons for the differences in earning among workers.

PROJECT Draw an outlined map of Nigeria. On the map, show and name (i) One area noted for the mining of any three of the following: crude oil, limestone, columbite, iron ore, (ii) one major town in any three of the areas shown in (a)(i) above. (B) Outline five ways in which crude oil contributes to the economic development of Nigeria. Use

cardboard sheet to draw the map.

CRS (1) Discuss Jesus as the light of the world (2) Mention three consequences of not working in the light (3) Explain the significance of Jesus as the lamb, the door, the good shepherd (4) State your responsibilities as sons and daughters of God/citizens of Nigeria (5) how did St. Paul reconcile Philemon with Onesimus? (6) List four types of prayers and explain them (7) State four types of persecution Christians may encounter today (8) Mention five signs of the second coming of the Lord and explain the preparation for the second coming of Jesus. **PROJECT:** In not less than 5 pages of album, write 10 leadership qualities of Joseph

ENGLISH LANGUAGE: (1) Read the passage on page 104-105 of the NOSEC for SS1 and answer the questions that follow Nos a-e (2) Read the passage on page 119 of the NOSEC for SS1 and answer the summary questions that follow (No i-ii) (3) Do the exercise on page 138 of the NOSEC for SS1 (B) Exercise Nos a-j. **PROJECT** . In a cardboard sheet, show in a tabular format (a) Features of a Pronoun (2) Types of Pronouns (3) Functions of each type

VISUAL ART: Explain the following (1) Terracotta (2) Applique (3) Lettering (4) Graphic (5) Design **PROJECT:** Design slippers of any material of your choice not more than three colors or any Art work of your choice

MATHS 1 if $26=2\text{mod}x$, find the possible values of x 2 calculate using log table $289.5 \times 4567 \div 599.7$ 3 form the quadratic equation with the root (-7 and $\frac{3}{2}$) complete the table below

A	B	C	D	AVB	C^D	CVB	A^A
T	T	T	F				
T	T	F	F				
T	F	T	T				
T	F	F	T				
F	T	T	F				
F	T	F	F				
F	F	T	T				
F	F	F	T				

5. from a top of a tree 600m high, the angle of depression of a car is 60 degree. Find the without calculator or table i. distance between car and the foot of the tree ii. distance between the car and the top of the tree 6. a frustum of a cone has bottom and top diameter as 32cm and 24cm respectively. If the height is 40cm, calculate i C.S.A ii T.S.A iii Volume **Project.** Make an album of laws of indices and logarithms

COMMERCE (1) Explain 5 factors that affect the chance of occupation? (2) Identify the sources of capital in partnership? (3) Define limited liability company? (4) Explain 4 disadvantages of limited liability company? (5) Define trade association (6) State 4 functions of trade association **PROJECT** Using a carton, construct any media of transportation

FINANCIAL ACCOUNTING SSS2A & B Art 1 Explain the following terms: (i) Bad debt (ii) Provision for bad debt (iii) Prepayment and accruals (iv) Assets and liabilities. 2 State the purpose of the following: (a) Trading account (b) Profit and loss account. (c) Balance sheet. 3 (a) Define control account and mention two categories. (b) List five items at the debit side of sales ledger control account. 4 Mention five items found at the debit side of total creditors account and three at the credit side. 5 Differentiates sales ledger control and account from purchases ledger control account. **PROJEC** Using an album, draw the following formats. a Manufacturing account format b Trading account format (a) Profit and loss account format (all under manufacturing account) Format for (a) Receipts and payments account (b) Income and expenditure account.

DATA PROCESSING 1) List any three advantages of digitalization of data. 2) Explain five functions of operating system. 3) List and explain five uses of ICT 4) Define computer ethics. 5) Mention any three safety measures taken while using the computer. 6) Mention the four number systems we have. 7) List the steps in opening MS word. 8) Define database management system. 9) Create a database of the hostels in QRC with their hostel mistresses, save in a flash drive with your name to be submitted on return.**PROJECT-** In an album form and using cardboard sheet, illustrate using diagram and explain the four types of data model.

GOVERNMENT 1a. Explain party system ? b. Outline types of party system and their functions C. Enumerate the advantages and disadvantages of all the party system. 2a. Explain pressure group b. Outline types of pressure groups c. Enumerate features or characteristics of pressure groups d. Mention and explain the mode of operation or method employed by pressure groups in achieving their aims and influencing government? e. Explain all the functions of pressure groups

PROJECT Elections means the process through which the electorate choose their representatives into government positions, Use plywood/ carbon sheet and show how the different citizens of the country exercise their franchise through voting.

LITERATURE IN ENGLISH (1) Give an account of the following aspects of the literary appreciation you have studied. (ii) Genres of literature (iii) What literature is, its functions and genres (iv) Figurative expressions and imageries (v) What are symbols. (2i) Give a plot account of the novel 2nd class citizen, showing the background characterization and themes. (ii) Give briefly the subject matter of the novel (a) Unexpected Joy at Dawn (b) Lion and Jewel (3) What is the central message of the novel – Let Me Die Alone **PROJECT:** Give a brief blue print of the Harmonized scheme of work of literature for 2021 – 2025. WAEC, NECO, NABTEB

FOOD/NUTRITION (1) Mention and explain the six major groups of nutrients (2) Classify and explain carbohydrates into three main groups (2) State five factors that influence selection of kitchen equipment (3) As a food nutritionist, list five career opportunities in foods and nutrition (4) What are the two functions each of these enzymes, ptyalin, amylase, maltose and tpsin (5) Discuss the relationship between nutrition and reproductive health (6) List ten items in the first aid box and analyses the simple first aid treatment of the following: cuts, burns, scald (7) Enumerate the five nutritive values of vegetables (8) State three examples of cereals and legumes each. Cereals can be stored in (9) _____ and (1)___ ProjectIn a small container, package any cereals of your choice

CATERING CRAFT PRACTICE 1. What do you understand by the term “hospitality industry”? (b) Mention the three components of hospitality industry (c) Mention five importance of catering.2. Catering establishment are classified into commercial and non-commercial catering. b. List five commercial catering and non-commercial catering 3. Change the following culinary food commodities in English to French

English	French
(i) Butter	
(ii) Rice	
(iii) Fish	
(iv) Sweets	
(v) Cake	

4 Fire is classified as follows:(a) Class A-which involve combustibile solid materials such as wood, paper can be dealt with by using-5. Mention three fire fighting equipments and their uses 6. List three items in measuring food items in catering establishment 7. State the effect of heat on the following food nutrients (i) protein (ii) carbohydrates (iii) fats/oil 8. Digestion of food starts in the mouth and it is called 9. List three food and beverage personal and three of their duties each 10. What do you understand by the term cover? b. List five tvpes of cover.

GEOGRAPHY 1a. Define the following terms: **i** Isotherms **ii** Lapse rate **iii** Isohyet
 b. Convert 30o to Fahrenheit scale c. Name four factors that influence the climate of a place.
 2a Name any four planets in the solar system.b. With the aid of appropriate diagram explain THREE proofs to show that the earth is spherical.**PROJECT** Make an album of two samples of these environmental resources a. Vegetation resources, b. Mineral resources