

Health Science

- 1.a. What is Sex Education?
- b. What is assertive communication?
- 2.a. What is population Education?
- b. Mention two advantages of accurate population
- c. State two disadvantages of over population
3. a. What is emotional health?
- b. Explain the relationship between emotional health and social health

Physics

Questions

- 1(a) Define alternating current
- (b) What is power factor
2. An a.c source of frequency 50Hz has inductance of 0.45H, calculate it's inductive reactance. [$\pi=3.142$]
- 3(a) Define impedence
- (a) Draw the vector diagram of Resistor-Inductor series circuit.

Chemistry

Questions:.. Make a comprehensive note on Representative Metals and their compounds under the following headings.

- ** Introduction
- ** (Alkali metal)Sodium and it's compound.
- ** (Alkaline-earth metal) Calcium and it's compound
- ** Aluminum and it's compound.

Computer Studies

Question 1.

Use the table to answer the following questions

- i. Show the formula used to get the total score for each student 5mks
- ii. Show the formula used to get the average score for each student 5mks
- iii. Show the formula used to get the grade for each student 5mks

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1NAME	CLASS	ENG	MTHS	COMP	PHY	CHM	BIO	GEO	IGBO	CIVIC	TOTAL	AVG	GRADE	REMARKS
2UCHE	3U	89	78	98	87	76	54	78	67	89				
3EME	3V	67	87	77	66	65	69	90	98	65				
4UGO	3W	76	78	89	87	65	54	54	43	65				
5EMMA	3X	65	54	56	57	67	78	89	87	87				
6MIKE	3Y	76	77	76	78	89	98	76	65	54				
7CHRIS	3Z	67	87	88	89	87	76	65	54	43				

Garment Making

Using a set of measurements which is 18 by 10 inches, sew two (2) soft cushion or throw pillows. use velvet or fur fabric's.

Catering

Two vegetarians will be coming to your restaurant.

- A. Prepare a three course menu for them.
- B. Lay a table d'hote cover for two, using silver service. Serve them complete menu.
- C. Serve them mixed drink as a drink from the bar.

Civic Education

Prepare for a class presentation on the topic: The outbreak of Cholera in Nigeria and ways of curbing the spread.

- 1) What is National Integrity?
- 2) Explain five ways we can promote National integrity in Nigeria.

Financial Accounting

1. What is departmental Accounting
2. What are the importance of departmental accounts
3. State the format of departmental accounts

Economics

1. Give one reason for international trade
2. Differentiate between internal trade and external trade
3. Define the following terms;
A) Balance of trade. B) Balance of payment.

Animal Husbandry

- 1) Define livestock improvement.
- 2) Enumerate three livestock improvement methods.

Commerce

- 1- Explain the term sole proprietorship.
- 2- Mention the advantages of sole proprietorship.
- 3- Explain the term partnership and its features

Marketing

- 1- What is ICT in international marketing?
- 2- Outline the functions of ICT in marketing.
- 3- What is browsing?
- 4- Define communication
- 5- State the various types of communication you know.

Agriculture

1. Make a comprehensive note on crop improvement.

CRS

1. Discuss in detail the comparison of the temptations of Jesus Christ as recorded in Mtt4 vs 1-11, Mk1 vs 12-13, Lk4 vs1-15.
- 2 Which ways can we overcome sin today?

Animal Husbandry

- 1) Define livestock improvement.
- 2) Enumerate three livestock improvement methods.

Dyeing and Bleaching

- 1i, What is a motif?
 - ii, produce a stencil on 6X 9 inches using cultural motif.
2. Write a report on how to produce a stencil_ Introduction, Materials- (10) and procedures.

Visual Arts

- 1.i, What is fine Art?
 - ii, State 10 materials for drawing and painting.
 - iii, list 4 African Arts and locations.
- 2, List 5 Nigerian Contemporary Artists, place of birth and 2 notable works from each.

Foods And Nutrition

Question: interpret this test;

- A) prepare, cook and serve two fresh fish dishes
- B) cook a suitable accompaniment for one of the dishes in 'a'
- C) prepare a baked dessert to make the dishes prepared a two course meal
- D) set a table for two

English Language

What is a preposition?

List (40) prepositions you know and their uses.

Biology

ANSWER ALL QUESTION

- 1) Mention the three meninges membranes that protect the brain and the spinal cord.
- 2) State the sense organs and their functions

Literature

Read the book 'the Invisible Man' and summarise it.

General Mathematics

Instruction: Attempt All Questions. (Detailed solutions including diagrams are required)

- A point H is 20 m away from the foot of a tower on the same horizontal ground. From the point H, the angle of elevation of the point P on the tower and the top T of the tower are 30° and 50° respectively. Calculate, correct to 3 significant figures:
 - $\angle PT$;
 - the distance between H and the top of the tower;
 - the position of H if the angle of depression of H from the top of the tower is to be 40° .
- The bearing of Q from P is 150° and the bearing of P from R is 015° . If Q and R are 24 km and 32 km respectively from P,
 - represent this information in a diagram;
 - calculate the distance between Q and R, correct to two decimal places;
 - find the bearing of R from Q, correct to the nearest degree.
- A sack contains 10 blue and 6 red crayons; another sack contains 9 blue and 12 red crayons. Two crayons are drawn at random without replacement from each sack. What is the probability that:
 - all the four crayons are blue?
 - exactly one of the four crayons is red?

Further Mathematics

1.(a) Evaluate $\int_1^3 \left(\frac{x-1}{(x+1)^2} \right) dx$

(b) Solve the following equations simultaneously using the determinant method:

$$3x - y - z = -2$$

$$x + 5y + 2z = 5$$

$$2x + 3y + z = 0$$

2a. Given that $\frac{2x}{(x+6)(x+3)} = \frac{P}{x+6} + \frac{Q}{x+3}$. Find the value of P and Q.

b. Resolve $\frac{3x^2 - x + 2}{(x+2)^2(1-2x)}$ into partial fractions.

3a. Using the substitution $U = \cos x$ or otherwise, find $\int (\cos x)^5 \sin x dx$

b. A particle is projected in a straight line from a point O with a speed of 6m/s. At time t_s (seconds) later, its acceleration is $(1 + 2t)m/s^2$. For the time when $t = 4$, calculate for the particle:

i. Its velocity from O

ii. Its distance from O

4a. Evaluate $\int \frac{2x^3 - 2x^2 - 2x - 7}{x^2 - x - 2} dx$

b. Find the volume of the solid of revolution generated when the region bounded by $x = y^2$, $x = 1$, $x = 4$ and the x-axis is revolved about the x-axis through 360° .

5. Using the trapezium rule with eight ordinates at $x = -3, -2, -1, 0, 1, 2, 3, 4$. Calculate correct to three decimal places, an approximate value of:

$$\int_{-3}^4 \frac{6x}{x^2 + 2} dx$$

Technical Drawing

Draw in Scale of 1:1 the drawing above showing all construction lines.

