

**COMMAND SCIENCE SECONDARY SHOOOL LAFIA**  
**TAKE HOME ASSIGNMENT**  
**SUBJECT: ENGLISH LANGUAGE**

**CLASS 2**

As the head boy or head girl of your school, write a speech to be delivered on the occasion of the Commander of the Nigerian Army Education Corps (NAEC), Major General Bello Alhaji Tsoho's visit to your school. (450 words).

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**TAKE HOME ASSIGNMENT**  
**SUBJECT: CHEMISTRY**  
**CLASS: SS 2**

1(a)(i) Complete the table below with the respiratory surface of each of the listed organism

| Organism       | Respiratory surface |
|----------------|---------------------|
| Tadpole        |                     |
| Cockroach      |                     |
| Domestic fowl  |                     |
| <i>Tilapia</i> |                     |
| Earthworm      |                     |
| <i>Amoeba</i>  |                     |

(ii) State five characteristic features of respiratory surfaces in organisms.

(b) Make a drawing 4 cm - 6 cm long of the respiratory organ in *Tilapia* and label fully.

2. The table below shows the percentage composition of fat and protein in six different meat types. Study it and answer questions 2(a) to 2(d)

| Meat type | Fat (%) | Protein |
|-----------|---------|---------|
| A         | 07.2    | 21.3    |
| B         | 25.3    | 10.6    |
| C         | 20.0    | 22.5    |
| D         | 03.1    | 28.2    |
| E         | 12.6    | 17.3    |
| F         | 13.2    | 14.3    |

(a)(i) Which two of the meat types may be recommended for obese patient? (ii) State one reason for the answer in 2(a)(i).

(b)(i) Which of the two meat types would provide the most energy? (b)(ii) State two reasons for the answer in (b)(i)

(c)(i) Which of three meats could be suggested for a child suffering from kwashiorkor? (ii) State one reason for the answer in (c)(i)

(d) Which of the meat type is most likely to be suitable for (i) an active teenager (ii) a 70 year old human?

(e) Which other class of food provides energy? (f) State three uses of fat in the body

(g) Describe briefly the procedure for testing for fat in a meat sample using a piece of white paper

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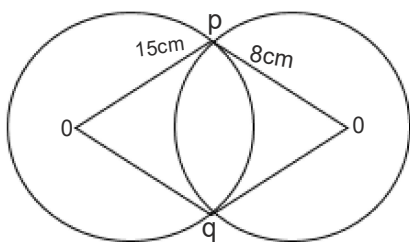
1. Explain reason why some metals occur as free elements in nature while others occur on combine forms.
  - (ii) Define the term Metal and non-metal
  - (iii) Give three (3) physical and chemical properties of each (metal and non-metal)
2. What is the main source of Aluminum in nature?
  - (ii) Why does Iron but not Aluminum Corrode easily on exposure to air despite the fact that Aluminum is above Iron in the electro-chemical series.
  - (iii) Give four (4) uses of aluminium.

**COMMAND SCIENCE SECONDFARY SHOOOL LAFIA**  
**TAKE HOME ASSIGNMENT**  
**SUBJECT: GEOGRAPHY**  
**CLASS: SS2**

1. Write five differences between traditional and modern means of communication.
2. Explain two ways government can improve communication in Nigeria

**COMMAND SCIENCE SECONDFARY SHOOOL LAFIA**  
**TAKE HOME ASSIGNMENT**  
**SUBJECT: MATHEMATICS**  
**CLASS: SS2**

1. a. Integral  $\int \frac{3}{(x+3)(x+2)} dx$ 
  - b. if  $\angle PQR = 8m$   $\angle QRP = 13m$ . the bearing of Q from P is  $050^\circ$  and the bearing of R from Q is  $130^\circ$ .
    - i. Find  $\angle PRQ$
    - ii. The bearing of R from P
2. From diagram below, find  $\angle POQ$  if  $\angle POQ = 12cm$



- b. A man deposited 720,000 in a bank for 2 years at 8% per annum C.I. Calculate the amount at the end of the 2 years period.

**COMMAND SCIENCE SECONDARY SCHOOL LAFIA**

**TAKE HOME ASSIGNMENT**

**SUBJECT: PHYSICS**

**CLASS: SS2**

1. (A) Define: (i) Specific heat capacity  
(ii) Complete the table below.

| Substances | SHC ( $\text{Jkg}^{-1}\text{K}^{-1}$ ) |
|------------|--|
| Aluminum   |  |
| copper     |  |
| Iron       |  |
| Lead       |  |
| Mercury    |  |

(B) (i) What is the quantity of heat that will be given out if a bar of brass of mass 350 gram is

2. (A) (i) State: (i) Boyle's law (ii) Charles law (iii) Pressure law

(B) (i) A fixed mass of gas at a pressure of 650 mmHg occupies a volume of 30  $\text{cm}^3$ . What will be the volume of the gas at 760 mmHg if the temperature remains constant?