

# **The Ambassadors College, Ota**

**S.S.S 1**

**SECOND TERM (MID-TERM)**

## **HOLIDAY ASSIGNMENT**

**2023/2024 Academic Session**

**Name:** \_\_\_\_\_

# HOLIDAY ASSIGNMENT

## ENGLISH LANGUAGE

E-note, page 30, Week Seven

### MATHEMATICS

ABCD is a trapezium in which  $AB \parallel DC$ ,  $AB=8\text{cm}$ ,  $\angle ABC=60^\circ$ ,  $BC=5.5\text{cm}$  and  $BD=8.3\text{cm}$

- (a) Using a ruler and a pair of compasses only construct,
- the trapezium ABCD
  - a rectangle PQCD where P, Q are two points on AB.
- (b) Measure AC and QB

### CHRISTIAN RELIGIOUS KNOWLEDGE

- 1a. What did Paul teach on the need for order in the society.
- b. List FIVE ways by which a Christian Can show that he is a responsible citizen.

### GOVERNMENT

- 1a. Define Political Parties
- b. Outline FOUR types of political parties.
- 2a. Define Pressure Groups?
- b. Highlight FOUR methods adopted by pressure groups in achieving their aims/objectives.

### FINANCIAL ACCOUNTING

- 1a. Define Control Account?
- b. State EIGHT uses of control account.
2. Ngozi Enterprises cash book showed a debit balance of ₦ 2,860 on 31<sup>st</sup> December, 2007. On the same day, the bank statement showed a credit balance of ₦ 442.

On investigation, it was discovered that:

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- (i) The opening balance of the cash book of ₦ 1,840 had been brought down as ₦ 1,408.
- (ii) A dishonoured cheque of ₦ 300 was not recorded in the cashbook.
- (iii) A cheque of ₦ 3,240 issued to a creditor has not been presented for payment.
- (iv) Standing order of ₦ 320 was paid by the bank.
- (v) A cheque of ₦ 1,200 lodged with the bank had not been credited.
- (vi) A dividend of ₦ 640 was paid direct to the bank.
- (vii) The bank had debited ₦ 130 for its charges.
- (viii) A cash payment of ₦ 20 had been credited to the bank column of the cashbook.
- (ix) The bank had debited a cheque of ₦ 4,800 to Ngozi Enterprises account in error.

***You are required to prepare:***

- (a) An Adjusted Cashbook; and
- (b) A bank Reconciliation statement as at 31<sup>st</sup> December, 2007.

### COMMERCE

1. State and explain the steps involved in the formation of a Limited Liability Company.
2. State and explain SIX sources of finance for Private Limited Company.

### FURTHER MATHEMATICS

1. Solve for  $x$ ;  $x^3 - 6x^2 + 5x + 12 = 0$
2. If  $(x + 2)$  and  $(x - 1)$  are factors of  $f(x) = 6x^4 + mx^3 - 13x^2 + nx + 14$ 
  - a. Find the values of  $m$  and  $n$
  - b. Factorise  $f(x)$

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3. Express  $\frac{x-2}{(x^2+1)(x+2)}$  in partial fractions.
4. Solve the equations
  - a.  $(\log_2 m)^2 - \log_2 m^3 = 10$
  - b.  $\log_3 m + \log_m 3 = \frac{10}{3}$

### BIOLOGY

1. Mention FIVE agencies responsible for conservation of natural resources in Nigeria.
2. List FIVE air pollutants.

### CIVIC EDUCATION

- 1a. Discuss the historical background of the Universal Declaration of Human Rights (UDHR)
- b. Explain the SEVEN core values of the UDHR.

### GOVERNMENT

- 1a. Define Public Opinion.
- b. Identify FIVE factors hindering the citizens from freely expressing themselves.

### AGRICULTURAL SCIENCE

- 1a. List FIVE sources of farm power.
- b. State FIVE importance of irrigation.
2. State ONE function of the following farm machines.
  - a. Tractor
  - b. Buldozer
  - c. Sheller
  - d. Tree Puller

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## LITERATURE

Read and analyse the poem “*To kill a mocking bird*” by Harper Lee

## PHYSICS (Honours)

New School Physics by Anyakoha page 206 Questions 16.

## PHYSICS (Regular)

1. Define tensile strain.
2. A uniform rod of diameter 2.4mm undergoes deformation under a constant longitudinal force of 2.0kN. calculate the tensile strain of the rod.  
( $\pi = 3.142$ , *Young Modulus of the materials of the road* =  $1.2 \times 10^{11} Nm^{-2}$ )

## ECONOMICS

1. (a) Write short notes on the following:
  - i. *Limited liability* [4marks]
  - ii. *Legal entity or status* [4marks]
  - iii. *Deed of partnership* [4marks]
  - iv. *Memorandum of Association* [4marks](b) List FOUR (4) sources of income to a sole proprietor [4marks]
2. (a) Differentiate between a free-market economy and a centrally planned economy. [4marks]  
(b) Explain FOUR (4) advantages and FOUR (4) disadvantages of a free market economic system. [16marks]
3. (a) What is distributive trade? [2marks]  
(b) Explain FIVE (5) functions of the wholesalers to manufacturers. [10marks]  
(c) Discuss FOUR (4) functions of the wholesalers to the retailers. [8marks]

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## CHEMISTRY

1. (a) State Charles' law.
- (b) Sketch a graph to illustrate Charles' law.
- (c) A given mass of a gas occupied  $150 \text{ cm}^3$  at  $27^\circ\text{C}$  and a pressure of  $1.013 \times 10^5 \text{ Nm}^{-2}$ .

Calculate the temperature at which its volume will be double at the same pressure.

- (d) Arrange the three states of matter in order of increasing:
    - (i) kinetic energy;
    - (ii) forces of cohesion.
2. A metal M forms two chlorides P and Q. On analysis, 2.0g of P was found to contain 0.69g of M and 10.00g of Q was found to contain 4.41g of M.
    - (a) Calculate the mass of chlorine that combined with 1.00g of M to form P and Q respectively.
    - (b) Deduce that the law of multiple proportions is obeyed.
    - (c) Write the correct formula of P and Q.