

## **HOLIDAY ASSIGNMENT**

### **SS3**

#### **MATHEMATICS**

A point H is 20m 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  $30^\circ$  and  $50^\circ$  respectively. Calculate, correct to 3 significant figures:

- /PT/;
- the distance between H and the top of the tower;
- the position of H from the foot of the tower if the angle of depression of H from the top of the tower is to be  $45^\circ$ .

#### **ENGLISH LANGUAGE**

##### **GRAMMAR**

The Bedrock, Pages 379-380,  
Questions I – XX

##### **COMPREHENSION**

NOSEC, Book 3, Page 303,  
Passage A, Questions 80-91

##### **SUMMARY**

NOSEC, Book 3, Page 292, Questions 1 and 2

##### **SPEECH**

NOSEC, Book 3, Pages 293-294,  
Questions 1-20

## **CIVIC EDUCATION**

- 1a. Define the term popular participation
- b. Discuss any **FOUR (4)** factors that favour popular participation
  
- 2a. Discuss any **FOUR (4)** need for popular participation
- b. Mention the **TWO (2)** major modes of popular participation

## **ECONOMICS**

- 1a. Distinguish between *Economics growth* and *Economics Development*.
- b. Enumerate the **problems** facing development planners in Nigeria.
  
- 2a. Define **renewable natural resources**.
- b. With specific examples, explain any **three** benefits of renewable natural resources to an economy.

## **BIOLOGY**

- 1a. State any four organs used for the maintenance of constant internal environment in animals.
- b. Briefly explain any three diseases of kidney.
  
- 2a. What is an hormone
- b. In a tabular form, state the location and one hormone produced by the following endocrine gland:
  - i. Adrenal gland
  - ii. Testis
  - iii. Pancrease
  - iv. Pituitary gland

## **COMPUTER STUDIES**

- 1a Define Information and Communication Technology (ICT).
- b Discuss five applications of ICT in education, health, and banking sectors.
- 2
  - ai Computer Virus
  - ii Firewall
  - iii Phishing
- b Discuss three methods of protecting computer systems from malware attacks.

## **ANIMAL HUSBANDRY**

- 1a Define Animal improvement.
- b Explain the following briefly:
  - (i) selection method
  - (ii) breeding method
  - (iii) hybridization.
- 2a Define diseases.
- b Explain briefly four factors that can predispose farm animals to diseases.

## **DATA PROCESSING**

- 1. Database Management Systems (DBMS):
  - a Define a database and explain its importance in data management.
  - b Differentiate between a primary key and a foreign key in a relational database.
- 2. Spreadsheet Applications:
  - a Define a spreadsheet and list five common uses of spreadsheet software.
  - b Explain the functions of the following spreadsheet features:
    - i) Cell referencing
    - ii) Functions (e.g., SUM, AVERAGE)
    - iii) Charts and graphs

## **DYE AND BLEACHING**

- 1a. What is the difference between natural and synthetic dye's?
- b. Describe the process of dying fabric using the immersion method.
- 2a. What is the purpose of bleaching in textile processing?
- b. Describe the different types of bleaching agents.

## **FURNITURE MAKING**

- 1a. Make a neat freehand isometric sketch of a dining chair.
  - b. Name three major processes that are involved in the production of the dining chair about.
2. Mention two types of joints that can be used in the above construction.

## **FURTHER MATHEMATICS**

1. Differentiate the following with respect to x

i.

$$y = \frac{(2x + 1)^3}{(x^3 - 4)^2}$$

ii.  $y = (2x - 1)^3(x^2 + 5)^2$

iii.  $y = 3x^2 + 2x - 1$

- 2 a. After t seconds, a particle has traveled a distance of s metres, where  $s = 27t + 15t^2 - t^3$ . Find;

i. its velocity after 6 seconds

ii. acceleration after 6 seconds

b. Find the gradient of  $y = 5 - 3x^2$  at  $x = 2$

## **FINANCIAL ACCOUNTING**

- 1a. What is branch accounting?
- b. State three (3) objectives or reasons for branch account.
  
- 2a. Highlight three (3) differences between branch and departmental organization.
- b. Mention two (2) basis of transferring goods from the head office to the branches.

## **GOVERNMENT**

- 1a. What is political leadership?
- b. Identify any four (4) qualities of a good leader.
- 2a. Outline any Five (5) political impact colonial administration had on west African states leading to statehood.
- b. Explain any four (4) reasons for military intervention in politics.

## **COMMERCE**

- 1a. What are business laws?
- b. Define a contract.
  
- 2a. Identify two (2) essential qualities of a valid contract.
- b. State and explain two (2) types of misrepresentation.