

## **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:

- a.     /PT/;
- b.     the distance between H and the top of the tower;
- c.     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  $x = 2$

## **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.

## **CHRISTIAN RELIGION STUDIES**

- 1a. Give a comprehensive account of Cyrus contributions to the return of the Jews from exile.
- b. State THREE (3) measures a nation can take to prevent God's wrath.
- 2a. Recount the event that took place after Herod Agrippa 1 killed James.
- b. Outline THREE (3) factors that motivate Christians to pray.

## **ISLAMIC RELIGIOUS STUDIES**

- 1a. Highlight any four (4) relevance of polygamy in Islam.
- b. Write the transliteration or translation of Suratul-Alaq (Q 96:1-5)
- 2a. Enumerate any five (5) teaching in the Prophet's (S.A.W.) farewell sermon.
- b. Give an account of the contributions of Caliph Abu Bakr to Islam

## **LITERATURE**

1. Critically examine the theme of 'romantic love' in the novel "Unexpected Joy at Dawn" by Alex Agyiri.
2. To what extent is the belief that "Nature is the backbone of human existence?"\* Explain your proposition to the above in relations to Binsey Poplars.

**VISUAL ART**

- 1a. Describe the difference between representational and non representational art.
- b. Discuss the importance of art appreciation in the society.
- 2a. Define the elements of lines, shape and form.
- b. Discuss the principles of balance, proportion in art composition.