



# ESSENCE COLLEGE, KANO

Guda Abdullahi Road, Farm Centre, Kano  
Third Term 2023/2024 Academic Session

## SSS TWO TO THREE

### ENGLISH LANGUAGE

1. Define word formation.
2. List and explain how new words are formed in English language.
3. List ten words that have French and Arabic origin borrowed into English.
4. List the consonant sounds in English with their symbols.

### MATHEMATICS

1. The scores of 50 students in an exam is as shown below.

Scores	11 – 15	16 – 20	21 – 25	26 – 30	31 – 35	36 – 40
Frequency	3	7	10	12	15	3

- a. Draw a histogram for the distribution.
  - b. Use your histogram to estimate the mode.
  - c. Calculate the median of the distribution.
2. The scores of 50 students in an exam is as shown below.

Scores	11 – 15	16 – 20	21 – 25	26 – 30	31 – 35	36 – 40
Frequency	3	7	10	12	15	3

- a. Draw a cumulative frequency curve for the above data.
  - b. From the ogive, i. estimate quartile deviation. ii. find semi-interquartile range.
3. The distance of Q from P is 40km on a bearing of  $050^\circ$ . R is on a bearing of  $165^\circ$  from Q. if the bearing of P from R is  $288^\circ$  find the distance between P and R to one decimal place.

### CHEMISTRY

1. What are organic compounds?
2. List two main elements present in all organic compound.
3. Define catenation.

## PHYSICS

1. A body of mass 0.1kg dropped from a height of 8m onto a hard floor bounces back to a height of 2m. Calculate the change of momentum, if the body is in contact with the floor for 0.1s. What is the force exerted on the body? [  $g=10\text{m/s}^2$  ]
2. A body of mass 2kg falls freely from rest through a height of 50m and comes to rest having penetrated 5.0m sand. Calculate
  - a. The velocity with which the body hit the sand.
  - b. The time taken in falling.
  - c. The average force exerted by the sand in bringing the body to rest.

## BIOLOGY

1. Define homeostasis
2. List three organs and glands associated with homeostasis.
3. List and explain 10 functions of the mammalian liver.

## LITERATURE IN ENGLISH

1. Differentiate between a gothic novel and satirical novel.
2. Differentiate between autobiographical and biographical novel
3. List five novels that are autobiographical.
4. List five books/poem written by Professor Wole Soyinka.

## COMMERCE

1. Explain public relation.
2. Who is a public relation officer (PRO)?
3. State five duties of a PRO.
4. Differentiate between customer relation service and public relation service.