

SS1

BIOLOGY

1. Draw and label fully, the front view of the following vertebrae;
Atlas and axis
Cervical vertebra
Thoracic vertebra
Lumber vertebra
The sacrum
The coccyx
2. Draw the diagram of the human skeleton and label fully.
(Note; all drawings are to be drawn in your drawing books)

CHEMISTRY

1. (a) Elements **R** and **Q** have atomic numbers 13 and 8 respectively.
 - i. Write the electronic configurations for **R** and **Q**.
 - ii. State the valencies of **R** and **Q**.
 - iii. Write the formula of the compound formed between **R** and **Q**.
 - iv. Predict the physical state of the compound formed in 1(a)iii.
2. State Avogadro's law.

MATHEMATICS

1. Briefly discuss the concept of Logical reasoning.
 - a. Explain with relevant examples, five (5) logical connectives.
2. What is the truth value of a statement?
 - a. Construct the truth tables for the following:
 - i. $P \vee Q$
 - ii. $\sim P \vee Q$
 - iii. $P \vee \sim Q$

PHYSICS

1.
 - a. State the fundamental law of electrostatic
 - b. With the aid of a diagram define the following
 - i. Open circuit
 - ii. Close circuit
 - iii. Short circuit