

# AHMES SECONDARY SCHOOL

## PRE-FORM ONE HOLIDAY PACKAGE (2021)

1. (a) Define the term “Biology” and “Biologist”  
(b) Mention major branches of Biology.  
(c) Briefly explain how Biology is related to the following field:
  - i. Agriculture
  - ii. Medicine
  - iii. Nutrition
  - iv. Forest
2. (a) What is waste?  
(b) Mention three (3) types of waste with three examples.
3. Give three examples of each of the following
  - a. Organic waste
  - b. Biodegradable waste
  - c. Biohazardous waste
4. i) What is waste disposal?  
ii) Outline three basic principle of waste disposal.  
iii) Giving examples, explain the waste disposal methods.  
iv) State four effects of poor waste disposal to the community
5. (a) write the uses of the following apparatus
  - i. Pooter
  - ii. Specimen bottle
  - iii. Petri dish
  - iv. Hand lens
  - v. Spatula  
(b) Mention the accident which can be prevented by doing the following;
  - i. Eat slowly and do not take part in eating competitions .....
  - ii. Do not taste things in the laboratory .....
  - iii. Do not go swimming alone .....
  - iv. Do not allow children to play in the kitchen.....
  - v. Avoid playing dangerous games such as climbing trees .....
  - vi. Properly dispose of broken glass and empty tins .....
6. (a) Define the following terms:
  - i. Laboratory
  - ii. Virology
  - iii. Test tube      iv) Botany  
(b) State the uses of each of the following laboratory apparati:
  - i. crucible
  - ii. Thermometer
  - iii. Test tube holder
  - iv. Petri dish
  - v. Mortar and pestle

7. (a) What is a microscope?  
(b) Draw a light microscope and label all parts.
8. (a) What do you understand by the term “personal hygiene”?  
(b) State four principles of personal hygiene  
(c) State four principles of good manners:
9. (a) What do you understand by the term “puberty”  
(b) Mention four requirements of personal hygiene.  
(c) State five ways of maintaining personal hygiene during puberty.
10. (a) Mention five importance of personal hygiene and good manners.  
(b) How would you help a person with bad manners?
11. (a) What is First Aid?  
(b) List four components of first Aid Kit.  
(c) State the procedures of giving First Aid to a person who has been stung by a bee.
12. (a) Explain the uses of the following First Aid kit components:
  - i. Cotton wool
  - ii. Petroleum jelly
  - iii. Liniment
  - iv. Tweezers
  - v. Adhesive plaster  
(b) Explain six (6) the importance of giving First Aid.
13. (a) What do you understand by the following terms:
  - a. Pathogen
  - b. Antigen
  - c. Natural immunity
  - d. Antibody
  - e. Immunity
  - f. Artificial immunity  
(b) List down any five factors that may weaken body immunity. State how each can be controlled.
14. (a) State one major advantage of vaccines over active natural immunity  
(b) Give three reasons why good health is important.
15. With example draw and explain the meaning of the following warning signs
  - i. Flammable
  - ii. Biohazard
  - iii. Explosive
  - iv. Toxic
  - v. Oxidant
16. (a) Explain the meaning of the term infection and disease  
(b) Using relevant examples, differentiate between communicable and non-communicable diseases  
(c) Briefly explain the following terms with examples
  - i. Endemic diseases
  - ii. Pandemic diseases
  - iii. Epidemic diseases