

JAMB Biology syllabus by Studentmajor.com

OBJECTIVES OF BIOLOGY: Definition, and branches

1. Living organisms: Cell structure

Level of organization

- i. Cell
- ii. Tissue
- iii. Organ
- iv. Systems
- v. Organisms
- vi. Functionalities, behaviors, adaptations, and Structure of organisms.

2. Evolution:

- Monera
- Protista
- Fungi
- Plantae
- Animalia (Invertebrates, and vertebrates)
- pisces
- Amphibia
- Reptilia
- Aves
- Mammalia
- Flowering plant

3. Nutrition (modes, and types of nutrition), classes of food, food tests, and nutrition process etc.

4. Photosynthesis (Chlorophyll)

5. Transport in Body System: Including th functions, channels and materials needed for transportation.

6. Excretory System

7. Circulatory system:

- Heart
- Arteries
- veins
- capillaries

- Plant vascular system

8. Respiratory System and organs, their types and functions.

- Aerobic and Anaerobic respiration

9. Mechanism of gaseous exchange:

- Plants
- Mammals

10. Excretory System: Types, functions, structures, products and mechanisms (Kidneys, lungs, skin)

11. Skeleton (types & functions)

12. Sense Organs and their functions:

- skin
- nose
- tongue
- eye
- ear

13. Reproduction: Read everything about reproduction in Animals, plants and other Micro-organisms.

14. Growth: Read everything on growth in animal and plants

15. Co-ordination and control (Nervous System)

- Impulses
- central nervous system;
- peripheral nervous systems;
- Reflex action

16. Hormones: Study all the hormones in animals and plants and their functions.

17. Ecology (Ecosystem): Read everything on this topic including carbon, water and Nitrogen cycles

18. Habitats:

- Aquatic
- Terrestrial

19. Vegetation:

- Tropical rainforest

- Guinea savanna
- Sudan Savanna
- Desert
- Highlands
- Forests and
- Grasslands

20. Population density

21. Adaptation: Read everything on this topic:

22. Soil: Study all the types of soils, and their structures and fertility

23. Diseases: Study everything about diseases and infections including their mode of transmissions, systems and prevention methods including STDs.

24. Pollution: Note the types of pollutions, their pollutants sources, types, and how to control them.

25. Natural Resources & Conservation

26. Heredity And Variations (The structures and applications)

- Variation In Population
- DNA
- Heredity traits
- Physiological variation

27. Evolution: Know the theories of evolution, including the Lamarck's, Darwin's, Organic theories.

Jamb biology recommended textbooks for 2021 exam.

- Senior Secondary School Biology 1 -3 by Ndu, Aina J. and Co.
- Essential of Biology by Odunfa, S.
- Biology for Senior Secondary School Biology 1 -3 by Ogunniyi and Co.
- Modern Biology, SS Science Series by Ramalingam.
- (Revised Edition) Biology for Senior Secondary Schools by Stan.
- Biology for West African Schools by Stone R. and Co.
- Handbook of practical Biology by Usua, E.