

# PRE-ADMISSION BIOLOGY ASSESSMENT SAMPLE ASSESSMENT AND PREPARATION GUIDE

This booklet is designed to help you prepare for your Biology Assessment.

## HELPFUL HINTS

1. For online tests, make sure your computer meets the [minimum requirements](#).
2. Be on time! This will give you the opportunity to get setup.
3. Listen carefully and follow directions.
4. The tests are multiple choice. You will be required to choose the best answer to a question from several choices.
5. If one question is too hard, leave it and go on to the next. You can always come back and try it again if there is time.
6. Work steadily, and complete as many questions as you can. Please note the following are samples of the types of question you will encounter on the assessment and may not reflect exactly the difficulty of the assessment.

**If you have a documented disability and require accommodations, please contact [accessibility@conestogac.on.ca](mailto:accessibility@conestogac.on.ca).**

## WHAT TO EXPECT

You will be asked to complete 30 questions in 50 minutes.

We do not allow the use of calculators, dictionaries or learning aids, with the exception for individuals with approved testing accommodations.

## SAMPLE BIOLOGY ASSESSMENT

1. Blood flows directly from the right ventricle in the human heart to the:
  - a) left atrium
  - b) left ventricle
  - c) lungs
  - d) right atrium
2. Genes are located in (on) the:
  - a) centriole
  - b) mitochondrion
  - c) endoplasmic reticulum
  - d) chromosomes
3. A constant body temperature is characteristic of:
  - a) mammals and reptiles
  - b) birds and reptiles
  - c) mammals only
  - d) mammals and birds
4. The basic functional unit of the nervous system is the:
  - a) neuron
  - b) spinal cord
  - c) nerve
  - d) dendrite
5. The pH of blood is slightly basic. Which of the following would be most appropriate?
  - a) 6.4
  - b) 4.6
  - c) 7.4
  - d) 13.8
6. Which aspect of a protein determines whether it will function as an enzyme?
  - a) interior
  - b) surface
  - c) weight
  - d) colour

7. Granules which are the sites of protein synthesis within a cell are:
  - a) chloroplasts
  - b) mitochondria
  - c) endoplasmic reticula
  - d) ribosomes
8. Organelles associated with cellular respiration are called:
  - a) mitochondria
  - b) Golgi apparatus
  - c) chloroplasts
  - d) lysosomes
9. The ability of cell membrane to allow certain substances to enter or leave the cell is called:
  - a) diffusion
  - b) purposeful passage
  - c) osmosis
  - d) selective permeability
10. The most common method of cell division in the body is called:
  - a) osmosis
  - b) mitosis
  - c) meiosis
  - d) halitosis
11. A nerve cell is smaller than a(n):
  - a) virus
  - b) atom
  - c) proton
  - d) tissue
12. A person standing facing you has his heart located:
  - a) above the stomach
  - b) above the brain
  - c) behind the spinal cord
  - d) below the ovary
13. The cell nucleus is located:
  - a) outside the cell membrane
  - b) inside the mitochondria
  - c) next to the protons and neutrons
  - d) in the cytoplasm
14. Which of the following is the highest level of complexity in the human body?

- a) molecule
- b) cell
- c) organ
- d) tissue

15. Your blood flows throughout your body because of a(n):

- a) temperature gradient
- b) pressure gradient
- c) concentration gradient
- d) electrical gradient

Answers:

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|--------|--------|
| 1. (c) | 9.(d)  |
| 2. (d) | 10.(b) |
| 3. (d) | 11.(d) |
| 4. (a) | 12.(a) |
| 5. (c) | 13.(d) |
| 6. (b) | 14.(c) |
| 7. (d) | 15.(b) |
| 8. (a) |        |

Additional Resources:

When preparing for the Biology Pre-Admissions Assessment, you may find the following study guides helpful in reviewing your knowledge. These study guides are usually available at bookstores and libraries. However, please note that the resources are to serve as guides only and that they do not represent an exact match with the test content.

- GED Study Guides. These study guides are published by various publishers.
- Master the GED Science. 2nd edition. This study guide is published by Arco. ISBN 768910005
- Biology Grade 11. A Personal Tutor in a Book and Biology Grade12.A Personal Tutor in a Book. These study guides are published by The Academic Edge Ltd. ISBN 978-1-55202-029-6 (Grade 11) and ISBN 978-1-55202-030-2 (Grade 12).
- Biology 11 University Preparation. The Key Study Guide. This study guide is published by Castle Rock Research Corp. ISBN 1-55371-939-5.