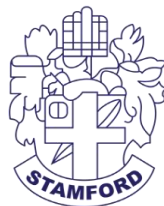


Stamford University Bangladesh

Sample Question for Admission Written Test

B. Sc. (Hons.) in Microbiology



Time: 90 minutes

Full Marks: 70

.....

Name of Candidate: _____

Admission Test Roll No: _____

Date: _____

Invigilator's Signature

Marks Obtained:	
Section A: <input type="text"/>	Section B: <input type="text"/>
<div>Total Marks (Section: A+B+C)</div> <div><input type="text"/></div>	Section C: <input type="text"/>
_____ <i>Answer Script Checked By</i>	_____ <i>Answer Script Checked By</i>

Section - A (English)

PART I: PARAGRAPH

Question 1

Time: 40 minutes

Marks: = 10

Write a paragraph on the following topic (Limit 120 words).

Environment Pollution: the Major Causes

PART II: GRAMMAR

Questions 2-11

Marks: $10 \times 1 = 10$

Tick (✓) on the correct answer.

2. I'll be ready to leave ____ about twenty minutes.
a. in
b. for
c. about
d. at
3. The child responded to his mother's demands ____ throwing a tantrum.
a. with
b. by
c. from
d. for
4. My fingers were injured so my sister had to write the note ____ me.
a. with
b. to
c. for
d. in
5. ____ is used to indicate possession.
a. A quotation
b. An apostrophe
c. A comma
d. A hyphen
6. ____ is used at the end of a sentence or remark to express strong emotion.
a. An exclamation mark
b. A question mark
c. A quotation mark
d. An apostrophe
7. The princess ____ down and slept for twenty years.
a. lain
b. lay
c. lai
d. lied
8. They love English weather, ____?
a. aren't they
b. isn't they
c. don't they
d. are they
9. Coal is still ____ in Britain.
a. manufactured
b. grown
c. built
d. mined
10. I can sell you some bananas but only ____.
a. a few
b. little
c. few
d. a little
11. Are you shopping for ____ health club to join so you can get in shape?
a. a
b. an
c. the
d. no article

PART III: READING COMPREHENSION

Question 12-21

Marks: $10 \times 1 = 10$

Read the following passage and tick (✓) the best answer.

Helicopters are very different from airplanes. They can do three things that airplanes cannot do. First, when airplanes move upward, they must also move forward, but helicopters can move straight up without moving ahead. Second, helicopters can fly backward, which airplanes cannot do. Third, helicopters can use their rotors to *hover* in the air (stay in one place) which is impossible for planes.

Because helicopters can *perform* actions that airplanes cannot, they are used for different tasks. Since helicopters can take off without moving forward, they do not need a runway for takeoff. They are used in *congested* areas where there is no room for airplanes or in *isolated* areas which do not have airports. Because they can hover, they are used on firefighting missions to drop water on fires. They are used in logging operations to lift trees out of forests. Helicopters are used as air ambulances to airlift patients out of situations which are difficult to reach by *conventional* ambulances. The police use helicopters to follow suspects on the ground or to search for cars on the ground. Of course, helicopters have military uses because of their design and capabilities.

12. Helicopters are able to-

- a. move straight up.
- b. fly backward.
- c. hover.
- d. All of the above

13. When airplanes move upward-

- a. They must move forward.
- b. They must move sideways.
- c. They must move backwards.
- d. Both A and B are correct.

14. Helicopters are used in firefighting because-

- a. They can reach difficult spots.
- b. They can hover above the fire.
- c. Their rotors can put out the fire.
- d. Both A and B are correct.

15. How are helicopters used as ambulances?

- a. They chase suspects on the ground.
- b. They airlift people out of accidents.
- c. They can drop water on fires.
- d. They lift trees out of forests.

16. Why don't helicopters need runways?

- a. They can take off without moving forward.
- b. They can hover in the air.
- c. They can fly backward.
- d. They are small.

17. Hover means-

- a. stay in one place in the air.
- b. move straight up in the air.
- c. go backwards in the air.
- d. fly sideways.

18. The best synonym for perform is-

- a. fly.
- b. do.
- c. lift.
- d. can.

19. If an area is congested it is-

- a. crowded.
- b. popular.
- c. cut off.
- d. in the city.

20. If an area is isolated it is-

- a. crowded.
- b. popular.
- c. cut off.
- d. in the city.

21. Conventional means-

- a. for a large group of people.
- b. created for the first time.
- c. for emergency use.
- d. regular.

Section – B (Biology)

Question 1-20

Marks: 20 × 1 = 20

Tick (✓) on the correct answer.

1. Which organelle does the Krebs cycle occur in?

- a. Nucleus
- b. Mitochondria
- c. Ribosome
- d. Golgi body

2. Which one is the bastfibre?

- a. Jute fibre
- b. Cotton
- c. Silk cotton
- d. Coir

3. Who is regarded as the Father of Biology?

- a. Galileo Galilei
- b. Charles Darwin
- c. Aristotle
- d. Robert Hooke

4. Full form of DNA is-

- a. Deoxyribonucleic acid
- b. Nucleic acid
- c. Ribonucleic acid
- d. None

5. ICBN means-

- a. International Code of Biological Nomenclature
- b. International Code of Botanical Nomenclature
- c. International Case for Botanical Nomenclature
- d. International Codon of Botanical Name

6. Ribosome is a site for-

- a. Photosynthesis
- b. Protein synthesis
- c. Fat synthesis
- d. Respiration

7. i. Plant convert energy from sunlight in food stored as carbohydrates

ii. Plants have chlorophyll

iii. Plant cells do not have cell walls

Among the following statements which is/are correct?

- a. i
- b. i, ii
- c. i, ii, iii
- d. None

8. Life span of red blood cell-

- a. 500 days
- b. 200 days
- c. 80 days
- d. 120 days

9. Jute genome sequencing discovered by-

- a. Mobarak Ahmad Kha
- b. MaqsudulAlam
- c. MaqsudulKarim
- d. SenjutiSaha

10. Which of the following is a characteristic of a virus?

- a. Viruses can live only in a living cell
- b. Viruses are acellular
- c. Viruses have only a protein coat and genetic material
- d. All

11. The scientific name of human beings is-

- a. Homo sapiens
- b. Labiorohita
- c. Tanualosailisha
- d. None

12. Which are present in the epidermis of a Hydra?

- a. Nerve cell
- b. Germ cell
- c. Both
- d. None

13. Human blood pressure normal range-

- a. 120/80 mmHg
- b. 200/100 mmHg
- c. 200/80mmHg
- d. 100/60mmHg

14. Which part of the body maintains the body balance?

- a. Cerebrum
- b. Heart
- c. Kidney
- d. Lungs

15. Nucleus is absent in-

- a. WBC
- b. Platelets
- c. Leukocytes
- d. RBC

16. The blood is filtered in-

- a. Lungs
- b. Heart
- c. Kidney
- d. Stomach

17. Which are the characteristic of the phylum Chordata?

- a. Dorsal hollow nerve cord
- b. Notochord
- c. Gill slits
- d. All

18. Functional unit of lungs is called-

- a. Trachea
- b. Pleura
- c. Lobule
- d. Alveoli

19. The structural and functional unit of body is—

- a. Kidney
- b. Cell
- c. Tissue
- d. All

20. DPT Vaccine is applied for-

- a. Diphtheria, Pertussis, Tetanus
- b. Diphtheria, Polio, Tuberculosis
- c. Diphtheria, Polio, Tetanus
- d. None

Section – C (Chemistry)

Question 1-20

Marks: $20 \times 1 = 20$

Tick (✓) on the correct answer.

1. The nucleus of the atom consists of –

- | | |
|---------------------------|------------------------------------|
| a. Protons and neutrons | b. Protons and electrons |
| c. Neutrons and electrons | d. Protons, neutrons and electrons |

2. Oxidation is a chemical reaction involving the –

- | | |
|---------------------|--------------------|
| a. Gain of neutron | b. Loss of neutron |
| c. Loss of electron | d. None |

3. Which of the following is a homogeneous mixture?

- | | |
|------------------------------------|-----------------------|
| a. Mixture of soil and water | b. Sugar solution |
| c. Mixture of sugar, salt and sand | d. Iodized table salt |

4. Chemical formula of benzene-

- | | |
|-------------|-----------|
| a. C_6H_6 | b. H_2O |
| c. N_2 | d. None |

5. Which gas is responsible for the unpleasant smell of rotten eggs?

- | | |
|-------------------|-------------|
| a. Sulfur dioxide | b. Hydrogen |
| c. Oxygen | d. None |

6. Which of the following is a noble gas?

- | | |
|-------------|-------------|
| a. Nitrogen | b. Hydrogen |
| c. Helium | d. Chlorine |

7. Which atomic particle has positive charge?

- | | |
|-----------|-------------|
| a. Proton | b. Neutron |
| c. Photon | d. Electron |

8. Which gas is commonly known as laughing gas?

- | | |
|------------------|-------------------|
| a. Nitrogen | b. Oxygen |
| c. Nitrous oxide | d. Carbon dioxide |

9. What is the pH of a neutral solution?

- | | |
|------|-------|
| a. 7 | b. 14 |
| c. 0 | d. 1 |

10. Which of the following is an acid?

- | | |
|----------|---------|
| a. Water | b. HCl |
| c. Both | d. None |

11. Boiling point of water-

- a. All types of solids
- b. No type of solid
- c. Amorphous solids
- d. Crystalline solids

12. What makes a solution?

- a. 100°C
- b. 700°C
- c. 800°C
- d. 900°C

13. What is the atomic number of Oxygen?

- a. 6
- b. 7
- c. 8
- d. 9

14. Radioactive rays are of-

- a. 2 types
- b. 3 types
- c. 4 types
- d. 5 types

15. Which of the following compounds is not electro conductive in water solution?

- a. NaCl
- b. CaCl₂
- c. HCl
- d. C₆H₁₂O₆ (Glucose)

16. What kind of compound is Calcium oxide?

- a. Covalent
- b. Ionic
- c. Metallic
- d. Polar

17. Which of the followings has the highest rate of diffusion?

- a. CO₂
- b. NH₃
- c. HCl
- d. H₂SO₄

18. The oxidation number of Cr in Cr(CO)₆ is-

- a. 0
- b. +2
- c. -2
- d. +6

19. The vertical columns in the periodic table are termed as-

- a. Periods
- b. Groups
- c. Series
- d. None of these

20. The most electronegative element in the periodic table is-

- a. Nitrogen
- b. Oxygen
- c. Chlorine
- d. Fluorine

=====GOOD LUCK=====
