

Cell Biology IONIQ CORE (Edexcel IGCSE)

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* Indicates required question

1. 1. Which order shows levels of organisation from smallest → largest? *

Mark only one oval.

- ☐ A) Tissue → organ → cell → system
- ☐ B) Organelle → cell → tissue → organ → system
- ☐ C) Cell → organelle → tissue → organ → system
- ☐ D) System → organ → tissue → cell → organelle

2. 2. Which part controls the activities of a cell? *

Mark only one oval.

- ☐ A) Cell wall
- ☐ B) Nucleus
- ☐ C) Chloroplast
- ☐ D) Ribosome

3. 3. Which structure is in plant cells but not animal cells? *

Mark only one oval.

- ☐ A) Mitochondria
- ☐ B) Cell wall
- ☐ C) Nucleus
- ☐ D) Ribosomes

4. 4. Which structure is found in BOTH plant and animal cells? *

Mark only one oval.

- ☐ A) Chloroplasts
- ☐ B) Vacuole only
- ☐ C) Mitochondria
- ☐ D) Cell wall

5. 5. What is the main job of ribosomes? *

Mark only one oval.

- ☐ A) Make proteins
- ☐ B) Store water
- ☐ C) Control the cell
- ☐ D) Let gases in/out

6. 6. What does the cell membrane do? *

Mark only one oval.

- ☐ A) Makes glucose
- ☐ B) Controls what enters and leaves the cell
- ☐ C) Supports the plant
- ☐ D) Stores genetic material

7. 7. Which elements are found in carbohydrates? *

Mark only one oval.

- ☐ A) Carbon, hydrogen and oxygen
- ☐ B) Carbon and nitrogen only
- ☐ C) Carbon, hydrogen, oxygen and nitrogen
- ☐ D) Hydrogen and chlorine

8. 8. Which statement about large food molecules is correct? *

Mark only one oval.

- ☐ A) Lipids are made from amino acids
- ☐ B) Proteins are made from simple sugars
- ☐ C) Starch and glycogen are made from simple sugars
- ☐ D) Lipids are made from starch

9. 9. Which test shows starch is present? *

Mark only one oval.

- ☐ A) Benedict's solution turns brick-red on heating
- ☐ B) Iodine turns blue-black
- ☐ C) Biuret turns lilac
- ☐ D) Ethanol turns cloudy white

10. 10. What is an enzyme? *

Mark only one oval.

- ☐ A) A vitamin
- ☐ B) A biological catalyst that speeds reactions
- ☐ C) A type of cell that produces proteins
- ☐ D) A mineral

11. 11. What usually happens to enzymes at very high temperatures? *

Mark only one oval.

- ☐ A) They work faster forever
- ☐ B) Their active site changes shape and they stop working
- ☐ C) They freeze and stop functioning
- ☐ D) They turn into sugars

12. 12. Which statement describes osmosis? *

Mark only one oval.

- ☐ A) Movement of particles from high to low concentration
- ☐ B) Diffusion of water through a partially permeable membrane
- ☐ C) Movement against a concentration gradient using energy
- ☐ D) Movement of air into lungs

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