

Exam of the Course « Universal History of Biological Sciences »
Level: 1st year common core Natural and Life Sciences

First Name :

Last Name :

Questions

1) Give the definition of :

Science meaning "knowledge", science is a whole set of systematic methods for acquiring knowledge (0,5 pt)

Biology is the science of life, which is concerned with the study of living things; animals and plants (0,5 pt)

Anthropology is the science of the study of development of human in over time (0,5 pt)

Archaeology is the science which focused on ancient writing (0,5 pt)

Antiquity that follows prehistory. Antiquity is characterized by the development of writing (0,5 pt)

Middle Age is a period between the capture of Rome by the Barbarians and the capture of Constantinople by the Turks (0,5 pt)

Cuneiform in the type of writing in Irak (Mesopotamia) (0,5 pt)

2) Complete the following sentences :

Prehistoric man invented tools made of: wood (0,5 pt) + Bone (0,5 pt) + Stone (0,5 pt)

Prehistoric man used plants for a variety of purposes because plants

Have therapeutic properties (0,5 pt) Constitute a source of alimentation (food) (0,5 pt)

The three postulates of cell theory are as follows :

All cells originate from pre-existing cells (0,5 pt)

The cell is the basic unit of life (0,5 pt)

All living organisms consist of at least one cell (0,5 pt)

3) What is the difference between Paleolithic and Neolithic periods ?

Paleolithic period is characterized by the technique of sculpted stone, killing and represents the oldest and longest period of prehistory (1pt)

But the Neolithic period is a period of prehistory marked by profound technical, economic and social changes, linked to the adoption by human groups of a subsistence model based on agriculture and animal husbandry, and usually involving sedentarization (1pt)

4) Give the main types of humans

Homo habilis (0,5 pt)

Homo sapiens (0,5 pt)

Homo ergaster or craftsman (0,5 pt)

Homo Cro-Magnon (0,5 pt)

5) Name the main theories of each scientist

Thales water is the origin of all life (0,5 pt)

Pythagoras the idea of sea-level change (0,5 pt)

Alcméon to perform systematic dissections. He relates the brain and the senses (0,5 pt)

Charles Darwin theory of evolution (0,5 pt)

Gregor Mendel theory of heredity and genetic (0,5 pt)

Louis Pasteur et Koch Vaccination and developement of Microbiology (0,5 pt)

Aristot wrote the first known treatise on embryology (0,5 pt)

6) Give a synonym for the following period :

Middle Ages = Medieval (0,5 pt)

16th century = Renaissance of sciences (0,5 pt)

17th century = Scientific revolution (0,5 pt)

18th century = Age of light (0,5 pt)

7) Name the two founders of microscope and microbiology :

Antoni Van Lowenhook (0,5 pt) and Robert Hook (0,5 pt)

8) What the elements required for molecular cloning?

Plasmid (vector) (0,5 pt)

Enzymes (0,5 pt)

Gene of interest (0,5 pt)

Host organism (cell) (0,5 pt)

GOOD LUCK

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