

## REVISION QUESTIONS: Themes 1-4

1. The term "biology" was coined by:

- a) Charles Robert Darwin
- b) Jean - Baptiste Lamarck
- c) Jan Amos Komenský

2. The *Živa* periodical, still published today, was founded by:

- a) Jan Neruda
- b) Karel Havlíček Borovský
- c) Jan Evangelista Purkyně

3. Jan Evangelista Purkyně termed the cellular substance as:

- a) prenesta
- b) epidermis
- c) protoplasm

4. The formulation of cellular theory is attributed to these biologists:

- a) Schleiden, Schwann, Purkyně
- b) Darwin, Mendel, Mareš
- c) Lamarck, Darwin, Mendel

5. Catastrophism was used to explain evolution by:

- a) George Cuvier
- b) René Descartes
- c) Plato

6. The creationist theory of the origin of life is based on the conviction that:

- a) life is as old as the Earth and originated along with it.
- b) life was brought to the Earth from another part of space.
- c) the world and its components (including Nature) were created by God (Creator).

7. The origin of living systems from inanimate substance is advocated by:

- a) the theory of self-creation
- b) the theory of organic effects
- c) the anaerobic theory

8. The theory of self-creation was held, for example, by :

- a) Aristotle
- b) Plato
- c) Democritus

9. The origin of life from probiotic molecules was explained by:

- a) J. G. Mendel
- b) A. I. Oparin
- c) CH. R. Darwin

10. Josef Velenovský developed his philosophy of Nature as:

- a) Ornamentalism
- b) Gradualism
- c) mechanical materialism

**CORRECT ANSWERS:1B, 2C, 3C, 4A, 5A, 6C, 7A, 8A, 9B, 10A**

**REVISION QUESTIONS: Themes 5-8**

1. The philosophical aspect of the beauty of sea animals was described by:

- a) Ch. R. Darwin
- b) Adolf Portmann
- c) Josef Velenovský

2. According to Portmann, the beauty of living organisms is most captivating at places:

- a) with low selection pressure
- b) with high selection pressure
- c) with sufficient oxygen and solar energy

3. Monism is generally represented by:

- a) Ernst Haeckel
- b) I. A. Oparin
- c) J. E. Purkyně

4. Among the most prominent philosophers-naturalists born in South Bohemia is ranked:

- a) František Mareš
- b) Karel Domin
- c) Emanuel Rádl

5. František Mareš develops in his philosophical works the theory of:

- a) Mechanism
- b) vitalism
- c) monism

6. Experiments on plant hybrids were conducted by:

- a) Johann Gregor Mendel
- b) Josef Velenovský
- c) František Mareš

7. Johann Gregor Mendel is also known as eminent

- a) meteorologist
- b) geologist
- c) paleontologist

8. One of Mendel's most significant contributions to genetics consists in the fact that he:

- a) managed to formulate mathematical regularities in the transmission of particular dispositions
- b) managed to explain the important conditions of evolution
- c) managed to prepare experimental material for crossbreeding

9. In the case of the *Manuscripts* authenticity T. G. Masaryk clashed for example with:

- a) František Mareš
- b) Josef Velenovský
- c) Bohumil Němec

10. Portmann classifies young animals as:

- a) independent and independent
- b) small and big
- c) Nesthockers and Nestflüchters

**CORRECT ANSWERS: 1B, 2A, 3A, 4A, 5B, 6A, 7A, 8A, 9A, 10C**

#### **REVISION QUESTIONS: Themes 9-12**

1. The Czech philosopher who spend her life away from civilisation, in harmony with Nature, was

- a) Jaroslava Pešková
- b) Jiřina Popelová
- c) Anna Pammrová

2. The prominent scientist who travelled round the world was

- a) Ch. R. Darwin
- b) J. E. Purkyně
- c) J. G. Mendel

3. The theory of natural selection is based on the fact that

- a) organisms produce adequate progeny and so all of them can mature to further reproduction
- b) organisms produce large progeny, all of which cannot survive, and only some can mature to further reproduction
- c) even the most delicate can survive

4. The same opinions as those formulated by Ch. R. Darwin were also held by:

- a) H. Ch. Driesch
- b) J. E. Purkyně
- c) A. R. Wallace

5. The basic unit of evolution is:

- a) organism
- b) population
- c) cellula

6. Apart from ecology, Anna Pammrová's efforts were devoted to:

- a) women's emancipation
- b) the relationship between mother and child
- c) multiculturalism

7. The variations that are advantageous in the struggle for existence are:

- a) inexplicable
- b) not hereditary
- c) hereditary

8. Ethical dimensions are introduced to contemporary ecological issues by

- a) Erazim Kohák
- b) J. E. Purkyně
- c) František Mareš

9. Ecocentrism claims that:

- a) man is a creature responsible to himself and to Nature in general
- b) man is a creature responsible mainly to himself
- c) man is a creature responsible mainly to Nature

10. The ideas of J. Rousseau and L. N. Tolstoy inspired:

- a) František Mareš
- b) Anna Pammrová
- c) Josef Velenovský

CORRECT ANSWERS: 1C, 2A, 3B, 4C, 5B, 6A, 7C, 8B, 9A, 10B

#### **REVISION QUESTIONS: Themes 1-12**

1. The experiments on plant hybrids were conducted by:

- a) František Mareš
- b) Jan Evangelista Purkyně
- c) Johann Gregor Mendel

2. Adolf Portmann explored the philosophical aspects of

- a) the beauty of sea animals
- b) the beauty of terrestrial animals
- c) the beauty of terrestrial plants

3. Johann Gregor Mendel became famous in his time as a:

- a) meteorologist
- b) evolutionist
- c) vitalist

4. In the case of the Manuscripts authenticity Masaryk clashed also with:

- a) Josef Velenovský
- b) František Mareš
- c) Emanuel Rádl

5. *Živa* periodical was founded by:

- a) Jan Evangelista Purkyně
- b) Jan Neruda
- c) Josef Velenovský

6. The theory of catastrophism was used to explain evolutionary phenomena by:

- a) Ch. R. Darwin
- b) J. B. Lamarck
- c) George Cuvier

7. Aristotle is a representative of the theory of:

- a) creationism
- b) self-creation
- c) transferring life to the Earth from other areas in space

8. Ernst Haeckel is respected as a representative of:

- a) vitalism
- b) monism
- c) pragmatism

9. Erazim Kohák introduces to ecological problems namely:

- a) ethical aspects
- b) economic aspects
- c) astonishment

10. The same opinions as those formulated in Ch. R. Darwin's researches were expressed by:

- a) A. R. Wallace
- b) J. G. Mendel
- c) H. Ch. Driesch