

1. Which of the following set is the evidence of evolution?
 - (a) Homologous and vestigial organs (✓)
 - (b) Analogous and vestigial organs
 - (c) Homologous and analogous organs
 - (d) All of the above

2. Of the following anatomical structures, which is homologous to the wing of a bat?
 - (a) The arm of a human(✓)
 - (b) The wing of a butterfly
 - (c) The tail of a fish
 - (d) The dorsal fin of a shark

3. Which one of the following sets of structures includes only analogous organs?
 - (a) Wings of butterfly, housefly and bat(✓)
 - (b) Hind legs of horse
 - (c) Hands of man, monkey and kangaroo
 - (d) Mandibles of cockroach, mosquito and honeybee

4. Which of the following set represents all vestigial structures in the human body?
 - (a) Vermiform appendix, body hair and cochlea
 - (b) Wisdom teeth, coccyx and patella
 - (c) Coccyx, vermiform appendix and muscles of ear pinna(✓)
 - (d) Body hair, muscles of ear pinna and atlas vertebra

5. The earliest animal to have been domesticated by man most likely the
 - (a) Horse
 - (b) Pig
 - (c) Dog(✓)
 - (d) Cow

6. Presence of gill slits in the embryo of all vertebrates supports the theory of
 - (a) Organic evolution
 - (b) Recapitulation(✓)
 - (c) Metamorphosis
 - (d) Biogenesis

7. Appearance of ancestral characters in the new borne, such as tail, multiple mammae, etc., are known as
 - (a) Homologous
 - (b) Analogous
 - (c) Atavistic(✓)
 - (d) Vestigial

8. Evolution is defined as
 - (a) History of race
 - (b) Development of race

- (c) History and development of race with variations(√)
- (d) Progressive history of race

9. The book named “Philosophic zoologique” was published in 1809 and was written by:

- (a) Mendel
- (b) Darwin
- (c) De Vries
- (d) Lamarck(√)

10. Penguin is a bird that lost the use of its wings by not flying. Such a statement would express the views of

- (a) Darwin
- (b) Wallace
- (c) Lamarck(√)
- (d) Huxley

11. A scientist kept 80 generations of Drosophila in darkness, even after that the flies had normal eyes. This disproves law of

- (a) Natural selection
- (b) Acquired characters(√)
- (c) Use and disuse
- (d) Synthetic theory

12. Weismann cut off tails of mice generation after generation but tails neither disappeared nor shortened showing that

- (a) Darwin was correct
- (b) Tail is an essential organ
- (c) Mutation theory is wrong
- (d) Lamarckism was wrong in inheritance of acquired characters(√)

13. What did CHARLES DARWIN publish in 1859?

- (a) Origin of Species by Natural selection(√)
- (b) Species plantarum
- (c) Philosophie Zoologique
- (d) De Naturien Familien

14. The book ‘Descent of Man and Selection in Relation to Sex’ was written by:

- (a) Charles Darwin(√)
- (b) J.B. Lamarck and C. Darwin
- (c) F.B. Sumner and E. Darwin
- (d) Robert Brown

15. Darwin worked on Galapagos finches. The number of species of these finches is

- (a) 10
- (b) 12
- (c) 14(√)

(d) 11

16. Which one of the following evolutionists proposed the theory of evolution similar to Charles Darwin's?

- (a) Alfred Russell Wallace(✓)
- (b) Erasmus Darwin
- (c) Thomas Godfrey
- (d) Thomas Robert Malthus

17. The ultimate source of organic variation is

- (a) natural selection
- (b) sexual reproduction
- (c) hormonal action
- (d) mutations(✓)

18. World environment day is

- (a) June 5(✓)
- (b) February 28
- (c) August 5
- (d) April 28

19. Tendon connects

- (a) Cartilage with muscles
- (b) Bone with muscles(✓)
- (c) Ligament with muscles
- (d) Bone with bone

20. Sewage infection of water will be demonstrated by cysts of

- (a) Entamoeba(✓)
- (b) Escherichia coli
- (c) Pseudomonas
- (d) Leishmania

21. Which type of tissue forms glands?

- (a) Epithelial(✓)
- (b) Connective
- (c) Nervous
- (d) Muscle

22. Eutrophication leads to death of fish due to

- (a) Increased O₂ content
- (b) increased algae content
- (c) decreased algae content
- (d) Decreased O₂ content(✓)

23. Sebaceous glands are found in

- (a) Dermis of skin of mammals(√)
- (b) Epithelium of stomach of frog
- (c) Epithelium of intestine of frog
- (d) Epidermis of skin of mammals

24. Minamata disease is a pollution-related disease, which results from

- (a) Release of human organic waste into drinking water
- (b) Accumulation of arsenic into atmosphere
- (c) Release of industrial waste mercury into fishing water(√)
- (d) Oil spills into sea

25. Which type of tissue forms the framework of the external ear?

- (a) Epithelial
- (b) Connective(√)
- (c) Muscle
- (d) Nervous