

B.Sc. First Year (Zoology)

Paper 3: Taxonomy & Evolution, Biostatistics & Computers

Multiple Choice Questions

1. Father of taxonomy?

- a. Darwin
- b. Mayr
- c. Hippocrates
- d. Linnaeus

Answer: d

2. Who proposed the binomial nomenclature?

- a. Linnaeus
- b. Mayr
- c. Huxley
- d. Darwin

Answer: a

3. What is a taxon?

- a. A group of related families
- b. A type of living organisms
- c. A group of related species
- d. A group of any ranking

Answer: d

4. 12. Which of following is not a principle of International Code of Zoological Nomenclature (ICZN):

- a- Binomial and trinomial system of nomenclature should be adopted
- b- Name of the genus should start with capital letter followed by species with small letters
- c- The scientific name must be always written in italics or underlined only.
- d- The scientific name must be derived from Italian language only.

Answer: d

5. Basic unit of classification is

- (a) Kingdom
- (b) Division
- (c) Species
- (d) Order

Answer: c

6. Species which occupy different areas of distribution are called.

- a. Allopatric
- b. Sympatric
- c. Holotype
- d. Paratype

Answer: a

7. **Study of fossils is**

- (a) Palaeontology
- (b) Herpetology
- (c) Saurology
- (d) Organic evolution.

Answer: a

8. Correct order is:-

- (a) palaeozoic → archaeozoic → coenozoic
- (b) archaeozoic → palaeozoic → proterozoic
- (c) palaeozoic - →mesozoic → coenozoic
- (d) mesozoic → archaeozoic → Proterozoic

Answer: c

9. Which of the following is the method for dating of fossils?

- (a) radio-carbon method
- (b) potassium-argon method
- (c) electron-spin resonance method
- (d) uranium-lead method.
- (e) all of the above

Answer: e

10. In which era reptiles were dominant?

- (a) coenozoic era
- (b) mesozoic era
- (c) palaeozoic era
- (d) archaeozoic era.

Answer: b

11. Evolution is a:-

- a) continuous process
- b) discontinuous process
- c) both
- d) None of the above

Answer: a

12. Which of the following traits are evidence of a shared ancestry,

- a) analogous
- b) random
- c) dissimilar
- d) homologous

Answer: d

13. Theory of inheritance of acquired characters was given by

- (a) Wallace
- (b) Lamarck
- (c) Darwin
- (d) De Vries.

Answer: b

14. The theory of organic evolution by process of natural selection was proposed by:

- a. Mendel b. Darwin and Wallace
- c. Lamarck d. Darwin

Answer: d

15. Phenomenon of Industrial melanism' demonstrates

- (a) geographical isolation
- (b) reproductive isolation
- (c) natural selection
- (d) induced mutation

Answer: c

16. A type of natural selection in which genetic diversity decreases as the population stabilizes with respect to a particular trait value is

- a) directional selection
- b) stabilizing selection
- c) nonspontaneous selection
- d) none of these

Answer: b

17. Fossil evidence indicates that horses have gradually increased in size over geologic time. Which of the following terms best describes this?

- a. artificial selection
- b. directional selection
- c. stabilizing selection

d. disruptive selection

e. sexual selection

Answer: b

20. Speciation occurs

a. after populations become reproductively isolated and diverge.

b. when mutations generate observable differences.

c. when transitional forms develop between different populations.

d. when natural selection pressures reach their maximum.

e. when humans intervene and establish new breeds

Answer: a

21. Which one of the following factors is responsible for the evolution of organisms according to Neo-Darwinism:

a. Mutations

b. Natural selection

c. Mutations and natural selection

d. Either mutations or natural selection

Answer: c

22. Which of the following best describes the unique importance of the fossil record:

a. It provides the only source of information on relationships among living taxa

b. It provides the only source of information on divergence times of living taxa

c. It provides the only source of information on phenotypes of extinct taxa

d. It provides the only source of information on evolutionary trends over time

e. It provides the only source of information on population sizes over time

Answer: c

24. Which of the following is not true regarding the process of disruptive selection?

a) It favours intermediates in the population

b) It increases genetic diversity

c) It favours extreme traits in the population

d) It is the opposite of stabilizing selection

Answer: a

25. The best measure of central tendency is _____.

- a. arithmetic mean.
- b. geometric mean.
- c. harmonic mean.
- d. mode.

Answer: a

26. Diagrams are for _____

- a. the use of exports.
- b. better quantitative picture.
- c. better mental appeal
- d. the use of imports.

Answer: b

27. Simple random sampling is also known as_____.

- a. Probability sampling.
- b. Quota sampling.
- c. Convenience sampling.
- d. Purposive sampling

Answer: a

28. A grouped distribution can be represented by _____.

- A. Frequency polygon.
- B. Histogram.
- C. Frequency curve.
- D. Ogives.

Answer: b

29. Which of the following is volatile memory in a computer system

- a Hard Disk
- b. RAM
- c. ROM
- d. optical drive

Answer: b

30. which part of the computer can display the user's work?

- a. Keyboard
- b. Monitor
- c. Mouse
- d. Disk drive

Answer: b

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