

ETERNAL CAREER CLASSES

SUBJECT : BIOLOGY

CLASS : XII

FULL MARKS : 20

NAME :

BOARD TEST : 16

DATE : 21.12.2024

SECTION - A

Single answer type question. Attempt any nine question :-

Marks : 1 × 14 = 14

- How many of the following are present in galaxies ?
(a) One (b) Two
(c) Three (d) Four
- Which of the following bones are found in both bats and cheetah ?
(a) Carpals, tarsals, metacarpals and metatarsals
(b) Radius, ulna, femur and tibia
(c) Humerus and fibula
(d) Humerus, radius, ulna and phalanges
- Saltation is referred to as
(a) Inheritable large variations
(b) Inheritable small variations
(c) Single step large mutation
(d) Evolution by progressive mutations
- Choose which of the following period marks the emergence of vascular plants .
(a) Conifers evolved from seed ferns
(b) Dicotyledons evolved from progymnosperms
(c) Angiosperms evolved from herbaceous lycopods
(d) Bryophytes evolved from seed ferns
- Which scientists proposed that formation of life was preceded by chemical evolution ?
(a) SL Miller and Harold Urey
(b) Kohn Haldane and Alexander Oparin
(c) Charles Darwin and Thomas Malthus
(d) Alfred Wallace and Charles Darwin
- After about how many years of formation of earth, life appeared on this planet ?
(a) 500 billion years (b) 50 million years
(c) 500 million years (d) 50 billion years
- The flippers of the penguins and dolphins are the example of the
(a) adaptive radiation
(b) natural selection
(c) convergent evolution
(d) divergent evolution

8. Match List – I with List – II

	List – I		List – II
A	Mesozoic Era	1	Lower invertebrates
B	Proterozoic Era	2	Fish and Amphibia
C	Cenozoic Era	3	Birds and Reptiles
D	Paleozoic Era	4	Mammals

Choose the correct answer from the options given below

- | | | | |
|-------|---|---|---|
| A | B | C | D |
| (a) 2 | 1 | 3 | 4 |
| (b) 3 | 1 | 2 | 4 |

- (c) 1 2 4 3
 (d) 3 1 4 2

9. Given below are some stages of human evolution .
 Arrange them in correct sequence. (Past to recent)
 1 Homo habilis 2 Homo sapiens
 3. Homo neanderthalensis 4. Homo erectus
 Choose the correct sequence of human evolution form the option given below
 (a) D – A – C – B
 (b) C – B – D – A
 (c) C – B – D – A
 (d) A – D – C – B
10. In Hardy – Weinberg equation, the frequency of heterozygous individual is represented by
 (a) p^2 (b) $2pq$
 (c) pq (d) q^2
11. Typhoid fever could be confirmed by
 (a) Widal test (b) Mantoux test
 (c) Schick test (d) Dick test
12. Which of the following option is correct with regards to pneumonia ?
 (a) High fever and rashes
 (b) Severe frontal headache, muscle or joint pain
 (c) Lips may turn grey to bluish in colour
 (d) Mild fever, headache and back pain
13. Sensitivity to nay allergen is related to
 (a) deviation from the process of immunity
 (b) age of the person
 (c) eating habit
 (d) rise in environmental temperature
14. HIV, the Human Immunodeficiency Virus belongs to which of the following viral groups ?
 (a) Reoviruses (b) Retroviruses
 (c) Rhabdoviruses (d) Rhino viruses
15. Smack is a drug obtained from
 (a) latex of Papaver somniferum
 (b) Leaves of Cannabis sativa
 (c) flowers of Datura piñata
 (d) fruits of Erythroxyllum coca
16. Which of the following pair of diseases are transmitted by mosquitoes ?
 (a) Elephantiasis and dengue
 (b) Pneumonia and malaria
 (c) Elephantiasis and ascariasis
 (d) Chikungunya and pneumonia
17. What is the one thing that is common between pneumonia and common cold ?
 (a) Both are caused by same pathogen
 (b) both are incurable
 (c) Both are caused by droplet infection
 (d) Both are caused by same vector

18. Match List I with List II

	List I		List II
a	Typhoid	1	Fungus
b	Leishmaniasis	2	Nematode

c	Rihgworm	3	Protozoa
d	Filariasis	4	Bacteria

Choose the correct answer from the options given below

- | | | | | |
|-----|---|---|---|---|
| | a | b | c | d |
| (a) | 1 | 3 | 2 | 4 |
| (b) | 4 | 3 | 1 | 2 |
| (c) | 3 | 1 | 4 | 2 |
| (d) | 2 | 4 | 3 | 1 |
19. Which of the following disease is caused by a protozoan
 (a) Syphilis (b) Influenza
 (c) Babesiosis (d) Blastomycosis
20. Which of the following is not an autoimmune disease ?
 (a) Alzheimer's disease (b) Rheumatoid arthritis
 (c) Psoriasis (d) Vitiligo

SECTION - B

Short answer type question. Attempt any two question :-

Marks : 2 × 3 = 6

21. Comment on the statement, "Migration may increase or decrease the effects of selection".
22. Explain the terms:
 a. Race b. Breed c. Cultivars d. Variety
23. What is interferon? How do they monitor the infection of new cells?
24. What is a recombinant DNA vaccine? List two such vaccines. State their advantages.

Long answer type question. Attempt any four question :-

Marks : 4 × 5 = 20

25. Describe one example of adaptive radiation
26. Can we call human evolution as adaptive radiation?
27. Using various resources such as your school Library or the internet and discussions with your teacher, trace the evolutionary stages of any one animal, say horse.
28. Why are diseases like cholera, typhoid, dysentery etc., more common in overcrowded places?
29. How to detect cancer? What are a few approaches to treat cancer?
30. What Is Typhoid? List out the symptoms of Typhoid?
