

SEMESTER-TWO

BIOLOGY

Class XII

Sample Paper—1

Max. Marks: 50

Time Allowed: 90 minutes

General Instructions:

- (i) This question paper consists of 45 questions in 5 sections.
- (ii) Section A consists of 10 Objective type questions carrying 1 mark each.
- (iii) Section B consists of 10 Fill in the blanks type questions carrying 1 mark each.
- (iv) Section C consists of 10 True or False statement type questions carrying 1 mark each.
- (v) Section D consists of 10 Very short answer type questions carrying 1 mark each.
- (vi) Section E consists of 5 Short answer type questions carrying 2 marks each.

Section A

Select and write one most appropriate option out of the four options given for each of the questions 1 – 10.

1. This process is the removal of metabolic wastes from the body of living organisms.
 - (a) Excretion
 - (b) Respiration
 - (c) Circulation
 - (d) Digestion
2. Our lungs remove about 18 litres of
 - (a) CO₂
 - (b) O₂
 - (c) NaCl
 - (d) NaOH

3. The sweat glands secrete an aqueous fluid called
 - (a) sweat
 - (b) water
 - (c) urine
 - (d) oil
4. The colour of urine is due to pigment
 - (a) cytochrome
 - (b) urochrome
 - (c) chlorophyll
 - (d) none of these
5. The CNS includes
 - (a) brain and spinal cord
 - (b) nerves
 - (c) eye and ear
 - (d) none of these
6. It consists of three parts—olfactory lobes, cerebrum and diencephalon.
 - (a) Midbrain
 - (b) Forebrain
 - (c) Hindbrain
 - (d) None of these
7. How many pairs of cranial nerves originate from the brainstem?
 - (a) 12
 - (b) 14
 - (c) 16
 - (d) 18
8. Those resources which cannot be renewed are called
 - (a) renewable
 - (b) non-renewable
 - (c) (a) and (b)
 - (d) None of these
9. Solar radiation is an example of
 - (a) flow resource
 - (b) non-renewable resources
 - (c) water
 - (d) air
10. The water polluted with sewage usually contains
 - (a) virus
 - (b) bacterial
 - (c) worms
 - (d) all of these

Section B

Fill in the blanks with a suitable word for each of the questions 11 – 20.

11. _____ are reddish brown, bean shaped structure.
12. _____ help to protect the kidney.
13. Urethra carries only _____ .
14. _____ contains water, some inorganic salts, and traces of urea.
15. A structural and functional unit of nervous system _____ .
16. A nerve impulse is transmitted from one neuron to another through the junctions _____.

17. This forms the major part of the brain _____.
18. It is a process of making a person immune to a disease _____.
19. It is liquid water in the form of droplets _____.
20. Wells and springs are the sources of water _____.

Section C

State whether the following statements are true or false for each of the questions 21–30.

21. In anaerobic respiration, organic food is oxidised incompletely.
22. During anaerobic respiration water is not produced.
23. A voluntary action is performed with its will.
24. Vaccination is the process of making a person immune to a disease.
25. Vaccines help prevent infectious diseases and saves many lives
26. The blood in the pulmonary veins has more oxygen than that of pulmonary arteries.
27. Alveolar air has more of PO_2 than the inspired air.
28. Carbon dioxide is transported by the plasma of blood only.
29. Oxygen is mainly transported by the haemoglobin of blood.
30. In mammals, the left lung is larger than the right lung.

Section D

Answer each of the questions 31 – 40.

31. Name one organ of excretory system.
32. Write function of urethra.
33. Name two bile pigments.
34. Define homoeostasis.
35. What are the types of Nervous system?
36. What is neuron?
37. Give examples of peripheral nervous system.
38. Define natural resources.
39. What are the types of natural resources? Name them.
40. Define pollution.

Section E

Answer each of the questions 41 – 45.

- 41.** Define Internal Respiration.
- 42.** Write chemical equation of anaerobic respiration.
- 43.** Explain electrical synapses.
- 44.** Discuss at least two uses of sewage.
- 45.** Describe filtration method of water purification.