

SEMESTER-TWO

BIOLOGY

Class XII

Sample Paper—2

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. Phosphorylation is step of this
 - (a) Krebs's cycle
 - (b) glycolysis
 - (c) digestive systems
 - (d) excretion
2. Sucrose is converted into glucose and fructose by the enzyme.
 - (a) Convertase
 - (b) Vertase
 - (c) Invertase
 - (d) None of these

3. The process of oxidation of food by using oxygen is called
 - (a) aerobic respiration
 - (b) anaerobic respiration
 - (c) both (a) and (b)
 - (d) none of these
4. Functional unit of kidney is
 - (a) nephron
 - (b) neuron
 - (c) nephritis
 - (d) loop of Henle
5. It consists of a pinna.
 - (a) External ear
 - (b) Middle ear
 - (c) Internal ear
 - (d) none of these
6. Full form of GBV is
 - (a) Gender based violence
 - (b) Gonad based Violence
 - (c) both (a) and (b)
 - (d) None of these
7. The hormone receptors present on the cell membrane of the
 - (a) target cell
 - (b) nerve cell
 - (c) round cell
 - (d) none of these
8. This water is the most impure form of natural water.
 - (a) Ocean
 - (b) Sea
 - (c) River
 - (d) Pond
9. This is typically transported through a sewer system.
 - (a) Air
 - (b) Water
 - (c) Land
 - (d) Sewage
10. In this method of purification of water chlorine is used.
 - (a) Filtration
 - (b) Chlorination
 - (c) Boiling
 - (d) Sedimentation

Section B

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

11. _____ is often used in place of anaerobic respiration.
12. _____ is common to both aerobic and anaerobic modes of respiration.
13. Reduction is _____ of oxygen.
14. Oxidation is _____ of oxygen.
15. It is secreted by the corpus luteum during the later stages of pregnancy _____.
16. Testosterone is secreted by this organ _____.

17. Estrogens are secreted by this organ _____.
18. This is injurious for our health and causes lung cancer _____.
19. In this process, water is boiled to purify water _____.
20. This comprises water used to flush toilets _____.

Section C

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

21. Fermentation is often used in aerobic respiration.
22. During oxidation, electrons are lost.
23. Loss of oxygen occurs in reduction.
24. Involuntary action is performed with its will.
25. Personal hygiene is good for our health.
26. Vaccines contain the same antigen that cause diseases.
27. Do not wash your hands after use of restroom.
28. Single unit smooth muscle fibres may contract automatically and rhythmically.
29. Hyaline cartilage stores fats.
30. Transitional epithelium prevents loss of blood.

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Section D

Answer each of the questions 31 – 40.

31. What is pleurae?
32. What are the types of respiration?
33. Write chemical formula of aerobic respiration.
34. Write one difference between voluntary and involuntary actions.
35. Give two examples of reflex action.
36. Define astigmatism.
37. Write one cause of land pollution.
38. What do you understand by personal hygiene?
39. Write about personal health.
40. Define community health.

Section E

Answer each of the questions 41 – 45.

- 41.** Give two differences between oxidation and reduction.
- 42.** What is the role of diaphragm muscles in respiration, intercostal.
- 43.** What are the types of nervous actions?
- 44.** Write two importance of first aid.
- 45.** Define sewage disposal and discuss methods of sewage disposal.