Brain International School

Vikas Puri, New Delhi

REVISION SHEET

SUBJECT: BIOLOGY **CLASS-X** **TERM 1**

1 Marks Questions (MCQs)

1. Which part of the brain controls posture and balance?
(a) Cerebrum (b) Medulla (c) Cerebellum (d) Pons

2. Which plant hormone promotes cell elongation?
(a) Auxin (b) Cytokinin (c) Gibberellin (d) Abscisic acid

3. The gap between two neurons is called?
(a) Synapse (b) Axon (c) Dendrite (d) Node

4. Which gland secretes insulin?
(a) Liver (b) Pancreas (c) Thyroid (d) Adrenal

5. Which sense organ is responsible for balance?
(a) Eyes (b) Nose (c) Ear (d) Skin

6. Kala azar is:
(i) Bacterial disease (ii) Viral disease (iii) Protozoan disease (iv) Fungal disease

7. Multiple fission occurs in:
(i) Amoeba (ii) Yeast (iii) Plasmodium (iv) Leishmania

8. The root system grows out from:
(i) Plumule (ii) Radicle (iii) Embryo (iv) All of these

9. Permanent fertility control in male is achieved by:
(i) Tubectomy (ii) Vasectomy (iii) Anatomy (iv) Pills

10. The essential parts of a flower are:
(i) Sepals and petals (ii) Sepals and stamens (iii) Petals and pistils (iv) Stamens and pistils

(Assertion-Reason)

For each question, choose the correct option: (a) Both A and R are true, and R is the correct explanation of A (b) Both A and R are true, but R is not the correct explanation of A (c) A is true, R is false (d) A is false, R is true

11.Assertion (A): Photosynthesis occurs in the chloroplasts.
Reason (R): Chlorophyll absorbs light energy to convert CO_2 and water into glucose.
(a) Both A and R are true and R explains A (b) Both A and R are true but R does NOT explain A (c) A is true but R is false (d) A is false but R is true

12.Assertion (A): Pulmonary vein carries oxygenated blood.
Reason (R): It carries blood from the lungs to the heart.
(a) Both A and R are true and R explains A (b) Both A and R are true but R does NOT explain A (c) A is true

but R is false (d) A is false but R is true

13. **Assertion (A):** Reflex actions are controlled by the spinal cord.
Reason (R): Reflex actions occur without the involvement of the brain to save time.
(a) Both A and R are true and R explains A (b) Both A and R are true but R does NOT explain A (c) A is true but R is false (d) A is false but R is true

14. **Assertion (A):** Auxins are responsible for phototropism.
Reason (R): Auxins accumulate on the side of the stem away from light, causing cell elongation.
(a) Both A and R are true and R explains A (b) Both A and R are true but R does NOT explain A (c) A is true but R is false (d) A is false but R is true

15. **Assertion (A):** Plants raised by vegetative propagation can bear flower and seed earlier than those produced from seeds.
Reason (R): Plants which have lost the capacity to bear viable seeds, can propagate through vegetative propagation.
(a) Both A and R are true and R explains A (b) Both A and R are true but R does NOT explain A (c) A is true but R is false (d) A is false but R is true

16. **Assertion (A):** Amoeba reproduces by binary fission.
Reason (R): All unicellular organisms reproduce by asexual method.
(a) Both A and R are true and R explains A (b) Both A and R are true but R does NOT explain A (c) A is true but R is false (d) A is false but R is true

2 Marks Questions

17. Write two functions of xylem and phloem.

18. Differentiate between aerobic and anaerobic respiration.

19. Name two functions of the cerebellum.

20. What is phototropism? Give an example.

21. What is multiple fission? Give an example.

22. Name two unisexual and two bisexual flowers.

23. Name any four pollinating agencies.

24. Define placenta. Write its function.

25. Define regeneration. Explain with example.

26. Write differences between stamens and carpels.

27. Write any two advantages of vegetative reproduction.

28. (i) What is fragmentation in organism?
(ii) Name a multicellular organism which reproduces by this method.

3 Marks Questions

29. Explain the role of stomata in photosynthesis and transpiration.

30. Describe the structure and function of a neuron.

31. Explain the role of auxins in plant growth.

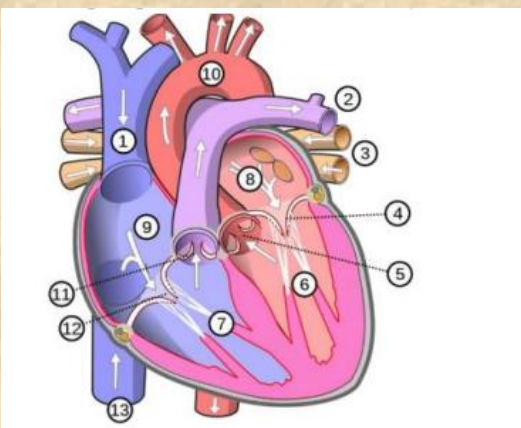
4 Marks (Case-Based Questions)

32. A student observed that a plant kept near the window bent towards sunlight after a few days.
(i) What is this phenomenon called?
(ii) Which hormone is responsible for it?

(iii) How does the hormone bring about this change?

33. The heart is a muscular organ which is as big as our fist. Because both oxygen and carbon dioxide have to be transported by the blood, the heart has different chambers to prevent the oxygen-rich blood from mixing with the blood containing carbon dioxide. The carbon dioxide-rich blood has to reach the lungs for the carbon dioxide to be removed, and the oxygenated blood from the lungs has to be brought back to the heart. This oxygen-rich blood is then pumped to the rest of the body.

Based on the passage above, answer the questions that follow.



(i) Which chamber of the heart (6, 7, 8 or 9) pumps blood to the lungs for oxygenation, name it? Identify and name the blood vessels that carry blood to the lungs.

(ii) Identify the structure at number 12 and state its function.

5 Marks Questions

34. Describe the process of digestion in humans with neat, labelled diagrams.

35. Explain the mechanism of breathing in humans.

36. Describe the structure and function of the human brain.

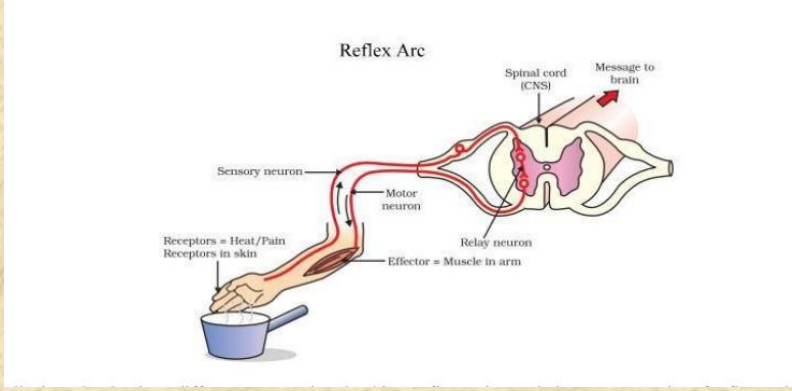
37. Explain the nervous and hormonal control in humans.

38.A person accidentally touches a hot plate and immediately withdraws his hand.

(i) What type of action is this?

(ii) Which part of the nervous system controls it?

(iii) Why is this type of response important?



39. a) List in order the three different neurons involved in a reflex action and give two examples of reflex action.

b) How are reflex actions and involuntary actions different from each other?

c) Name the part of brain which also controls the reflex actions.