

DWARKA INTERNATIONAL SCHOOL

SECTOR- 12, DWARKA-110078

SUBJECT: BIOLOGY

Sample Paper

CLASS: XI

M.M: 70

DURATION:3 Hours

SECTION A (1×5)

- Oxidative phosphorylation is found in _____
a) Chloroplasts b) Leucoplasts c) Peroxisomes d) Mitochondria
- Citric acid cycle is the alternate name of _____
a) HMP shunt b) Glycolysis c) TCA cycle d) Calvin cycle
- Which one yields the maximum energy?
a) Krebs cycle b) Anaerobic respiration c) Glycolysis d) Aerobic respiration
- Which of these is the naturally occurring auxin
a) Indole acetic acid b) 2,4-D c) Abscisic acid d) Butyric acid
- In Electron Transport chain, one pair of electrons passing from NAD reduced to oxygen produces
a) 4 ATP b) 3 ATP c) 2 ATP d) 1 ATP

SECTION B (2×7)

- What is the difference between oxyhaemoglobin and carbaminohaemoglobin?
- Write differences between systole and diastole.
- Explain symport and antiport method of facilitated diffusion?
- What are floating ribs? How many of them are there?
- What is endarch and exarch arrangement?
- Mention various types of roots.
- Write the functions of Golgi Apparatus.

SECTION C (3×12)

- Describe diagrammatically a sarcomere and label its part. Which of these parts shorten during muscle contraction?

15. Describe any 2 disorders of muscular system.
16. Write the functions of:
- (i) Luteinizing Hormone
 - (ii) Thyroid stimulating Hormone
 - (iii) Prolactin
17. What is the function of sclera and choroid?
18. What is osteoporosis? Name two factors which are responsible for osteoporosis
19. Explain any 2 disorders of the excretory system?
20. Write differences between monocot and dicot root.
21. What is the function of Leg hemoglobin
22. Mention 2 functions of: (i) Phosphorus and (ii) Calcium
23. What is the function of
24. Write a note on ABO grouping.
25. Write the differences between active transport and passive transport

SECTION D (5×3)

26. Explain the process of reabsorption and secretion of major substances at different parts of nephron with the help of schematic diagram.
27. Describe the structure of human heart.

OR

Explain sliding filament theory of muscle contraction

28. Describe the mechanism of urine formation.

