

**Sample Paper**  
For  
CBSE Class X

Time allowed: one hour

Maximum marks: 24

Instructions:

- 1) All questions are compulsory
- 2) There is no overall choice. However, internal choice has been provided in some questions. You are to attempt only one option in such questions.
- 3) Marks allocated to every question are indicated against it
- 4) Question numbers 1 to 3 are very short answer questions carrying 1 mark each. These are to be answered in one word or one sentence
- 5) Question numbers 4 and 5 are short answer question carrying 2 marks each. These are to be answered in 30-40 words each.
- 6) Question numbers 6 to 9 are also short answer questions carrying 3 marks each. These are to be answered in 40-50 words each.
- 7) Question number 10 is a long answer question carrying 5 marks. It is to be answered in about 70 words

1. What is mutation (1)
2. Name the process which is used in working of an artificial kidney. (1)
3. Name the structure through which oxygen rich air enters in the insects.(1)
4. What is eutrophication? Mention its harmful effects. (2)
5. List two main advantages of vegetative propagation. (2)
6. Describe the events which occur in the human stomach when food reaches it.

(Or)

Explain why oxygen leaves the blood from tissue capillaries, but carbon dioxide enters the blood in tissue capillaries or explain gaseous exchange between tissues and blood (3)

7. What is meaning of term double circulation? Explain (3)
8. What are phytohormones? Mention any two functions regulated by phytohormones in the plants. (3)
9. Answer the following
  - i. Structure of chromosome at metaphase stage
  - ii. Chemical nature of a eukaryotic chromosome.
  - iii. Chemical nature of prokaryotic chromosome. (3)
10. Draw a labeled diagram of human female reproductive system. Describe how fertilization occurs in human beings (5)