

TERM-II

QUESTION PAPER (SAMPLE-7)

Class: XI

Subject: Biology

Time Allowed-2 Hours

Max.Marks.:35

Section-A

1*5= 5 Marks

1. Why is mitosis called equational division?
2. Diagrammatically explain Cell Cycle indicating formation of 2 cells from one.
3. Gibberellins were first discovered in Japan when rice plants were suffering from bakane (the foolish seedling disease) caused by a fungus *Gibberella fujikuroi*. Give two functions of this phytohormone.
4. A farmer grows cucumber plants in his field. He wants to increase the number of female flowers in them. Which plant growth regulator can be applied to achieve this?
5. Identify the glands that perform the excretory function in prawns.

Section-B

3*5= 15 Marks

1. Name the stage of cell cycle at which one of the following events occur:
 - (i) Chromosomes are moved to spindle equator.
 - (ii) Centromere splits and chromatids separate.
 - (iii) Pairing between homologous chromosomes takes place.
2. Explain the mechanism of breathing with neat labelled sketches.
3. Describe the important steps in muscle contraction.
4. Mention the difference between hypothyroidism and hyperthyroidism.
5. a. Our reaction like aggressive behaviour, use of abusive words, restlessness etc. are regulated by brain, name the parts involved.
b. Explain reflex arc.

Section-C

5*3=15 Marks

1. Differentiate between C3 and C4 Plants.

2. Give an account of Glycolysis. Where does it occur? What is the end product? Trace the fate of these products in both aerobic and anaerobic respiration.
3. Describe the events in cardiac cycle. Explain “double circulation”.

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