

## TERM-II

### QUESTION PAPER (SAMPLE-8)

**Class: XI**

**Subject: Biology**

**Time Allowed-2 Hours**

**Max.Marks.:35**

#### **Section-A**

**1\*5=5 Marks**

1. Distinguish cytokinesis from karyokinesis.
2. Can there be mitosis without DNA replication in 'S' phase?
3. Plant growth substances (PGS) have innumerable practical applications.  
Name the PGS you should use to
  - a. Increase yield of sugar cane.
  - b. Promote lateral shoot growth.
4. What is the significance of juxta glomerular apparatus (JGA) in kidney function?
5. Old people have weak immune system. What could be the reason?

#### **Section-B**

**3\*5= 15 Marks**

1. Describe the following:  
(a) synapsis (b) bivalent (c) chiasmata  
Draw a diagram to illustrate your answer.
2. Distinguish between the following: (a) Aerobic respiration and Anaerobic respiration.
3. Give the schematic representation of an overall view of Krebs' cycle.
4. Name the organs of respiration in the following organisms:
  - a. Flatworm - \_\_\_\_\_
  - b. Birds - \_\_\_\_\_
  - c. Frog- \_\_\_\_\_
5. Draw a standard ECG and explain the different segments in it.

**Section-C**

**5\*3=15 Marks**

1. Explain in brief the universal cycle which operates in all Plants. Also mention the location where it happens in C3 and C4 plants.

OR

Explain ETS.

2. Draw the diagram of a sarcomere of skeletal muscle showing different regions.

OR

Define sliding filament theory of muscle contraction.

3. Name the parts of human forebrain indicating their respective functions.

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