

TERM-II

QUESTION PAPER (SAMPLE-4)

Class: XI

Subject: Biology

Time Allowed-2 Hours

Max.Marks.:35

Section-A

1*4= 4 Marks

1. Name the blood component which is viscous and straw coloured fluid.
2. State the functions of the following in blood
 - a. Fibrinogen
 - b. Globulin
3. What physiological circumstances lead to erythroblastosis foetalis?
4. Name the cells/tissues in human body which
 - a. exhibit ameboid movement
 - b. exhibit ciliary movement

Section-B

3*7=21 Marks

1. A cyclic process is occurring in C3 plant, which is light dependent, and needs O₂. This process doesn't produce energy rather it consumes energy.
2. Explain the relationship between absorption spectrum of chlorophyll a and b and action spectrum of photosynthesis.
3. Why is respiratory pathway referred to as an amphibolic pathway? Explain.
4. Name a hormone which
 - a. is responsible for phototropism
 - b. induces femaleness in flowers of cucumber
 - c. is used for killing weeds (dicots)
5. How is respiration regulated?
6. On an educational trip to Uttaranchal, Ketki and her friends observe that many local people were having swollen necks. Please help Ketki and her friends to find out the solutions to the following questions.
 - a. Which probable disease are these people suffering from?
 - b. How is it caused?
 - c. What effect does this condition have on pregnancy?
7. If someone receives a blow on the back of neck, what would be the effect on the person's CNS?

Section-C

5*2=10 Marks

1. Comment on the statement – Telophase is reverse of prophase.

OR

What are the various stages of meiotic Prophase-I? Enumerate the chromosomal events during each stage?

2. Draw a labelled diagram showing reabsorption and secretion of major substances at different parts of the nephron.

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