

TERM-II

QUESTION PAPER (SAMPLE-3)

Class: XI

Subject: Biology

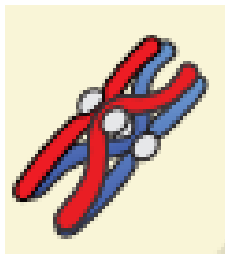
Time Allowed-2 Hours

Max.Marks.:35

Section-A

1 *4 = 4 Marks

1. If a tissue has at a given time 1024 cells, how many cycles of mitosis had the original parental single cell undergone?
2. The diagram shows a bivalent at Prophase-I of meiosis. Which of the four chromatids can cross over?



3. What is serum?
4. What do grey and white matter in the brain represent?

Section- B

3*7=21 Marks

1. Write briefly the significance of mitosis and meiosis in multicellular organism.
2. Six turns of Calvin cycle are required to generate one mole of glucose. Explain.
3. Explain why is water splitting complex related to PSII.
4. Respiration is an energy releasing and enzymatically controlled catabolic process which involves a step-wise oxidative breakdown of organic substances inside living cells. In this statement about respiration explain the meaning of
 - 1) Step-wise oxidative breakdown, and
 - 2) Organic substances (used as substrates).
5. The role of ethylene and abscissic acid is both positive and negative. Justify the statement.
6. What is the role played by Renin-Angiotensin in the regulation of kidney function?
7. Discuss the role of Ca^{2+} ions in muscle contraction. Draw neat sketches to illustrate your answer.

Section- C

5*2= 10 Marks

1. a. Distinguish between
 - (a) IRV and ERV
 - (b) Inspiratory capacity and Expiratory capacity.
- b. Define Tidal Volume.
2. Calcium plays a very important role in the formation of bones. Write on the role of endocrine glands and hormones responsible for maintaining Calcium homeostasis.

© PRAADIS
EDUCATION
DO NOT COPY