

SUBJECT :BIOLOGY

SHIFT I

CLASS: XI

1. Prepare the answers of exercise questions of chapter "Cell-Structure and Cell-division"

CLASS :XII

1. Prepare the answers of exercise questions of chapter Evolution, Common diseases-drug abuse.
2. Solve last 5 years board question papers from completed chapters.

SHIFT II

CLASS: XI

- 1) Exercise of chapter-Cell as the basic unit of life.
- 2) Structure of DNA, Carbohydrates-(sugar, starch)proteins and fats).
- 3)What is 'Z' scheme in light reaction of photosynthesis.Why is it called so?
- 4)Give two reasons as to why photosynthesis is important for sustaining life on earth?
- 5)Differentiate between absorption spectrum and action spectrum?
- 6)Write any 3 differences between cyclic and non cyclic photophosphorylation?
- 7)Ramu and Sonu are reading the chapter on photosynthesis and the structure of chloroplasts as part of it. Shiv,interrupted them and asked 'do you know there is division of labour in a chloroplasts too?'
The boys answered No. Only cells and tissues show division in labour and not cell organelles. Shiv explained the phenomenon to Ramu and Sonu.
- 8)What are the two phases in photosynthesis?
- 9)How does chloroplasts exhibit division of labour?
- 10)What value is shown by Shiv?

CLASS :XII

- 1) Mention the principle behind gel electrophoresis.
- 2) What is the advantage of Sparged Stirred-tank bioreactor over simple Stirred –tank bioreactor?
- 3) What is 'Ori'?

- 4) Name the source organism of Taq polymerase
- 5) Write the significance of Taq polymerase enzyme in amplification.
- 6) What is a palindromic sequences? Give an example.
- 7) How is Agrobacterium used as a cloning vector for transformation in plant cells?
- 8) Describe the naming of restriction enzymes with an example
- 9) What is insertional inactivation?
- 10) Show diagrammatically the three steps in PCR.