

B. N. BANDODKAR COLLEGE OF SCIENCE, THANE - 400 601.
FIRST TERM EXAMINATION OCT. - 2010

S. Y. B. Sc.

TIME : 2 Hrs.

SUBJECT : BOTANY - II

MARKS : 60

N. B. : 1. All questions carry equal marks.

2. All questions are compulsory.

3. Draw neat and labeled diagrams wherever necessary.

Q.1 A) Answer in ONE sentence :

i) Who invented the technique of chromatography ? What was the separation associated with the invention of chromatography? [1]

ii) What is photophysiology ? [1]

iii) What is non-disjunction ? [1]

B) Answer ANY TWO of the following :

i) Describe paper chromatography technique studied by you. [6]

ii) Give an account of carbohydrate classification. [6]

iii) What is linkage ? Add a note on the properties of linkage. [6]

Q.2 A) Describe Column chromatography in detail. [7]

B) Give an account of structure and working of scanning electron microscope. [8]

OR

B) Describe structure and working of phase contrast microscope. [8]

Q.3 A) Explain the biosynthesis of sucrose. [7]

B) Give an account of photosynthetic pigments. [8]

OR

B) Give a detailed account of Calvin and Benson cycle. [8]

Q.4 A) Discuss extra chromosomal inheritance in prokaryotes. [7]

B) Describe various sub-stages of Prophase I in meiosis. [8]

OR

B) What is crossing over ? Add a note on double crossing over. [8]

