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BF—80—2016

FACULTY OF SCIENCE

B.Sc. (First Year) (First Semester) EXAMINATION

OCTOBER/NOVEMBER, 2016

(Old Course)

BOTANY

Paper II

(Cell and Molecular Biology)

(MCQ + Theory)

(Friday, 21-10-2016)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—10+30=40

N.B. :—(i) Attempt All questions.

(ii) All questions carry equal marks.

(iii) Use separate answer-sheet for MCQs (OMR sheet) and descriptive questions.

(iv) Draw well labelled diagrams, wherever necessary.

(v) Time allotted to MCQ and descriptive questions is 2.00 hours.

MCQ

1. Choose the *correct* answers of the following questions : 10

(1) The subunits of prokaryotic ribosomes are :

(a) 60 'S' & 40 'S'

(b) 70 'S' & 30 'S'

(c) 60 'S' & 30 'S'

(d) 50 'S' & 30 'S'

(2) Ribosomes plays an important role in synthesis of

(a) Proteins

(b) Fat

(c) Lipids

(d) Carbohydrates

(3) Terminal part of chromosome is

(a) Chromonemata

(b) Telomere

(c) Centromere

(d) Chromomere

P.T.O.

3. Describe Prophase-I of Meiosis in detail. 10

Or

Describe in brief :

(i) Significance of mitosis 5

(ii) Amniocentesis. 5

4. Describe the double helical structure of DNA. 10

Or

Describe in brief :

(i) Structure and functions of t-RNA 5

(ii) Sickle cell anemia. 5