

DR. KANAILAL BHATTACHARYYA COLLEGE

B.Sc. General Practical Examination (CBCS system) – 2020

Semester- III

Subject- Botany

Paper: GE3/CC 3 (Cell biology, genetics and microbiology)

Time: 1 hr 30 min (2:00 P.M. – 3:30 P.M.)

Date: 20.3.2021

Full marks- 30

1. Draw and label metaphase and anaphase stages of Onion (*Allium cepa*) root tip. Mention two identifying reasons of each of the two stages. (2+2+1+1+2+2)
2. Write the procedure of slide preparation for Gram staining from curd specimen. Draw free hand drawing and label the observed result and comment on the morphology and Gram nature of bacteria found. (5+1+1+3)
3. Write the identifying characters with diagram of the following (2×5)
 - a) Anaphase- II of meiosis
 - b) Telophase of mitosis
 - c) Metaphase- I of meiosis
 - d) Coccus bacteria
 - e) Spiral bacteria