4. Write note on :

(a) Chromosome structure in plant cell 5

(b) Polyploidy 5

5. (a) Describe genetic code. 5

(b) Explain structure and function of organelle DNA. 5

Or

6. (a) Describe structure of Deoxyribonucleic acid (DNA) with the help of a neat diagram. 5

(b) Explain the structure and function of Golgi Apparatus. 5

7. Write note on :

(a) Allelic interactions 5

(b) Mutation 5

Or

8. Write note on :

(a) Epistasis 5

(b) DNA repair mechanisms 5

9. (a) Explain the structure of prokaryotic gene. 5

(b) Describe plant tissue culture. 5

Or

10. (a) Explain protein synthesis in prokaryotes. 5

(b) Describe different structural types of proteins. 5

★★★

UG (CBCS) EVEN SEMESTER EXAMINATION, 2024

EDUCATION

(B.Sc. B.Ed.)

4th Semester

Course No. : BSBP – 402

(Cytogenetics & Biotechnology)

Full Marks : 50

Pass Marks : 20

Time : 2 hours

The figures in the margin indicate full marks for the questions

(*Answer five questions*)

1. (a) Explain structure of plasma membrane. State its functions. 3+2=5

(b) Describe ultra-structure of nucleous. List its function. 5

Or

2. (a) Describe structure and function of nuclear membrane. 5

(b) Explain components of plant cell wall. 5

3. Write note on :

(a) Morphological alterations in chromosome 5

(b) Sex chromosomes 5

Or