(i)	Printed Pages: 3 Roll No
(ii)	Questions :9 Sub. Code: 0 0 5 3 Exam. Code: 0 0 0 1
	B.A./B.Sc. (General) 1st Semester
	(2122)
	BOTANY
	Paper : B (Cell Biology)
Tim	Allowed: Three Hours] [Maximum Marks: 36
Not	 Q.No. 1 is compulsory. Attempt only ONE question from each Section. Attempt only FIVE questions in total. A) Fill in the blanks: (a) Glucose 6 phosphatase is functional in
	organelle.
	(b) Translocation means
	(c) Which is equational division in meiosis is
	(d) Wobble hypothesis is
	B) Mark the correct answer:
	(e) The nuclear envelopes has two membranes which disintegrate at:
	(i) Prophase (ii) Metaphase
	(iii) Anaphase (iv) Telophase
	enouseval periocetatic distribution (a)

(f) According to Radial loop model, the scaffold proteins hold:
(i) Nucleosomes (ii) DNA-histone loops
(iii) Centromere (iv) None of the above
(g) The grass used in breeding of hexaploid wheat is:
(i) Aegilops speltoides (ii) Aegilops squarrosa
(iii) Both (i) & (ii) (iv) None
(h) The synapsis during meiosis is formed in:
(i) Leptotene (ii) Zygotene
(iii) Pachytene (iv) Deplotene $8\times 1=8$
SECTION—I
2. Describe with the help of diagrams, the structure of Ribosomes.
3. Write short notes on the following:
(a) Cisternae mananala ladoularios et double (a)
(b) Resistance of lysosomal enzymes by its own membrane.
(c) Diagram of Fluid-mosaic model. 2,2,3
SECTION—II
4. Give a brief account of the following:
(a) Balbiani rings
(b) Pericentric inversions 3,4
Contract of the second of the

What is Aneuploidy? Explain its various types with suitable 5. examples. SECTION—III Describe the process of mitosis with the help of diagrams 6. and mention its significance. Give a brief account of the following: 7. Nucleosome (a) 3,4 (b) DNA Replication. SECTION—IV Write short notes on the following: 8. Characteristics of Genetic Code. (a) (b) Processed RNA (c) Enzymes of Translation. 3+2+2

How the expression of a gene is regulated in Prokaryotes?

Describe the repressible system of gene regulation.

9.