Roll No.

Total Pages: 02

GSE/D-21

798

BOTANY Paper II

Cell Biology

Time : Three Hours] [Maximum Marks : 40

Note: Attempt *Five* questions in all, selecting *two* questions from each Unit. Q. No. 1 is compulsory and short answer type. All questions carry equal marks. Draw neat and well labelled diagrams where they are necessary.

Compulsory Question

- 1. (i) What do you understand by Inversion?
 - (ii) What are air vacuoles?
 - (iii) What is glycocalyx?
 - (iv) What are suicidal bags?
 - (v) Define hemicellulose.
 - (vi) Define the term G_0 phase.
 - (vii) What is NOR?
 - (viii) What is autolysis?

 $1\times8=8$

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Unit I

2.	(a) "Nucleus is controlling centre of cell." Discuss the statement.				ie
	(b)			on the structure of EF ctions.	₹. ,4
3.	(a)	e short notes on the f Grana Cristae.	Collow (b)	ing: Vacuoles 3,3,	,2
4.	Write (a)	e notes on the following Peroxisomes	_	Chloroplast. 4,	,4
5.	Discuss the ultrastructure of Golgi complex.				
		Uni	t II		
6.	Define Mitosis. Give its detailed account with its significance. How does it differ from meiosis?				
7.	Explain the following: (a) Sex determination in plants (b) Homologous chromosomes. 4,4				
8.	(a)	e short notes on the f Karyotype Centromere.	follow (b)	ing: Allopolyploidy 3,3,	,2
9.		t is chromosomal aber		? Discuss the structure	al 8
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