D - 11 1	*	To the state of th
KOIL	10	
SAME AND A PARTY	10.	•••••

Total No. of Questions: 9]
(2034)

[Total No. of Printed Pages: 4

# UG (CBCS) IIIrd Year Annual Examination 3006

B.Sc. BOTANY

(Economic Botany and Biotechnology)
(DSE-1A)

Paper: BOTA 301

Time: 3 Hours]

[Maximum Marks: 50

Note:— Attempt five questions in all, selecting one question each from the Sections—B, C, D and E. Question No. 1 of Section—A is compulsory. Attempt all subparts of a question together.

#### Section-A

### (Compulsory Question)

- 1. (i) Name the center of origin of 'Rice'.
  - (ii) Wheat belongs to family ......

CH-306

) Turn Over

	. (ii	i) Pulses belong to family	
	(iv	Give the botanical name of 'Tulsi'.	
a	(v)	What is 'Black Tea'?	
	(vi)	Expand the term RFLP.	
	(vii)	) Northern blotting is used to detect	9
	(viii	i) Define Vector.	
	(ix)	Foreign DNA is also called as Passenger DNA.	*
	en de de la company	(True/False)	
	(x)	Name a disease caused by SNPs. 1×10=1	0
		Section-B	
2.	Write	e short notes on the following:	
	(a)	Morphology of wheat	
	(b)	Soyabean as a vegetable	
	(c)	Vavilov's centers of origin 3,3,4	
3.	izak keral Na	Explain 'Clove' and 'Black Pepper' as spices.	
		Write in short about medicinal value of 'Ginger'. 6,4	
C	H <u>–</u> 30	문에는 이번 이렇게 이렇게 어떻게 들어지 하는 시민 없다고 그 사람이 사용하게 살아가 이 사람들이 하는 사람들이 가는 사람들이 되었다. 그는 그리다는 그리다	

## Section-C

4	l. (a)	Describe origin, distribution, cultivation practices	×
		and improved varieties of coffee.	
	(b)	Explain the term 'Ratooning'.	8,2
5.	. (a)	Describe Emblica and Cathranthus as medicinal	
		plants.	
	(b)	Write in short the economic uses of Sugarcane.	7,3
		Section-D	
6.	Wri	te short notes on any two of the following:	
	(a)	Embryo culture	
	(b)	Haploid production	
	(c)	Micropropagation	5,5
	(a)	What are the applications of plant tissue culture	
		in agriculture, horticulture and forestry?	
	(b)	Define Somatic Embryogenesis.	8,2
14.			3.30%

CH-306

(3)

**Turn Over** 

#### Section-E

8.	Write	short	notes	on	any	two	of	the	following	•
	The second secon	於數 30g 形式 15 Y 18 S 15 Y	A MARIN A MARIN S.		13 THE 10			1000 1 100		•

- (a) Southern blotting
- (b) Monoclonal antibodies
- (c) Agarose electrophoresis

5,5

- 9. (a) Give a general account on PCR and its types.
  - (b) RAPD and RFLP as molecular DNA markers. 5.5