

(4)

7. Describe the methods of gene regulation in eukaryote.

Unit-I V/F-IV

A

(Printed Pages 4)

Roll No. _____

Unit-I V/F-IV

8. Write short notes on the following : $5\frac{1}{2} \times 2$

(i) Transgenic Plants

Transgenic Plants

(ii) Applications of tissue culture

Applications of tissue culture

9. Describe the applications of Biotechnology in human welfare. 11

Applications of Biotechnology in human welfare

S-638

B.Sc. (Part-III) Examination, 2015

BOTANY

Second Paper

Molecular Biology and Biotechnology

Time Allowed : Three Hours] [Maximum Marks : 75

Note : Answer five questions in all. Question No.1 is compulsory. Attempt one question from each Unit. Attempt all parts of a question together.

Compulsory Question
Question No. 1
Attempt one question from each Unit. Attempt all parts of a question together.

1. Write brief notes on the following : 10×3

(i) DNA probes

[Dr. S. V. S. Desyame]

(ii) Vitamin B

[Dr. S. V. S. Desyame]

	(2)	(3)
(iii) Reducing Sugars [Yebnele Mekelj eS]		3. Give an account of genetic code. 11 pereskeā keā ejej Ce eueKeS Unit-II / FkāF-II
(iv) Restriction enzymes j mškeleve SveeFme		4. Write notes on the following : 5½ × 2 efecveeKele hej eShheCeUeeB eueKeS : (i) Storage polysaccharide medleUeve heeuemelkeaj eF [
(v) TATA Box šeše yekeme		(ii) High energy compounds GÜÜe Tpeel Uenikeā
(vi) Lipids efeehe[the		5. Write short notes on the following : 5½ × 2 efecveeKele hej eShheCeUeeB eueKeS : (i) Mechanism of enzyme action. ejekaj keā eeaüee (ii) Effect of substrate on enzyme activity. meymešš keā ejekaj keā eeaüee ejeeDe hej feYeeJe Unit-II / FkāF-II
(vii) Plasmids huepbeete[the		
(viii) Okazaki Fragments Deekaepekeāer KeC [
(ix) Holoenzyme neseeSveeFce		
(x) DNA Polymerase [er Sve S heuecej pe		
	Unit-I / FkāF-I 5½ × 2	
2. Describe the following : efecveeKele keā ejej Ce oepes : (i) Types of RNA Deej . Sve. S. keā ejekaj (ii) Protein Synthesis keeserve mehueseCe		6. Write notes on the following : 5½ × 2 efecveeKele hej eShheCeer eueKeS : (i) Calcium and Calmodulin keiuMellece SJeb keiuces[Yebueve (ii) Hormonal control of gene action. peave eeaüee keā nej ceueue efeljev\$eCe