D 21521	( <b>Pages</b> : 2)	Name
		Reg. No·····
THILL) SEME TE B.Sc. I	DEGREE EXAMINA	TION, NOVEMBER 2011
,	(C.C.S.S.)	
M	robiology—Core Course	
	MOLECULAR MICROB	
4	MOLINCOLMIC MICELOZ	Maximum Weightage: 30
Tow. Three Hours	111 4	William Worg
-,,	r all twelve questions :	
I <b>The</b> naturally occurring for		
(a) A DNA.	(b) B DNA.	
(c) Z DNA.	(d) All forms.	
2 Wobble hypothesis proposes	3	
(a) Universality of general		
(b) Flexibility in the III	d base of genetic code.	
(c) Complementarity of	genetic code.	
(d) Punctuations in gene	tic code.	
Ca apo ii a repression is pre		
(a) Tryptophan operon.	(b) Histidine	
(e) Arabinose °mon.	(d) Lactose of	peron.
4 At codon encodes:		
(m)	(b) Methionia	
yatine	(4) Stop codo	on.
	D NA nm.	
11 4+1111+Ie1 <b>opt</b> of all <b>n4e1ap</b>	htew es in a cell	is called
)NA willing is broug	oj	me that are found in all organisms.
h DNA polymerase I is Mph		
replicación occur	phase of cell cycle?	
Who is known as father Or		
II Which expertment explain		nservative?
2 Who proposed one gene on	o ammo hypothesis ?	(12: 1/ = 2 majahtana)
		$(12 \times \frac{1}{4} = 3 \text{ weightage})$

Turn over

2 **D** 2152

- II. Short Asnwer Type Questions. Answer all nine questions:
  - 13 What is an operon?
  - 14 Function of RNA polymerase.
  - 15 What is telomerase?
  - 16 Which is a trailer sequence?
  - 17 Mendel's law of seggregation.
  - 18 What is an inducible enzyme?
  - 19 What is a nucleotide?
  - 20 What is hn RNA.
  - 21 What is heredity?

x 1 = 9 weightage

- III. Short Essay or Paragraph Questions. Answer any five questions:
  - 22 Explain Lac operon.
  - 23 Write a note on DNA binding proteins.
  - 24 Explain structure and function of histones.
  - 25 Explain rolling circle replication with suitable example.
  - 26 Discuss about post translational modifications in eukaryotes.
  - 27 Explain genetic code.
  - 28 What are the different stages of mitosis.

 $(5 \times 2 = 10 \text{ weightage})$ 

- IV. Essay Questions. Answer any two questions:
  - 29 Explain organisation of eukaryotic chromosomes.
  - 30 Discuss about protein synthesis in prokaryotes.
  - 31 Explain structure and function of DNA and RNA.

 $(2 \times 4 = 8 \text{ weightage})$