C 26038	(Page	s : 2)	I	Vame					
]	Reg. No					
FOURTH	SEMESTER B.Sc. DEGI	REE	E EXAMINAT	'ION, MAY 2012					
	(CCS	SS)							
	Biotechnology -	- Cor	e Course						
	BT 4B 01— MICRO)BIA	L GENETICS						
Time : Three Hou	ırs			Maximum: 30 Weightage					
I. Objective 7	Type Questions. Answer all question	ns:							
· ·	e the following:								
1.	DNA Virus.								
2.	Coliphage.								
3.	Intercalating agent.								
4.	Discovered jumping genes.								
5.	Prion disease.								
6.	Plant virus.								
7.	High temperature tolerating enzyme used in PCR.								
8.	Causative agent of small pox.								
B. Selec	t the appropriate correct answer:								
9.	The terminator codons are:								
	(a) UAG, UAA, UGA.	(b)	UUG, UGA, GU	G.					
	(c) UUU, GAG, GAA.	(d)	UAA, UGG, UU	A .					
10.	Small pox is caused by:								
	(a) Varicella Virus.	(b)	Variola Virus.						
	(c) Paramyxo Virus.	(d)	Retrovirus.						
11.	Genes are composed of nucleic ac	ids ca	alled DNA was first	discovered by:					
	(a) James D. Watson.	(b)	Francis Crick.						
	(c) Rosalind Franklin.	(d)	Oswald T. Avery	·.					
12.									
	(a) Stimulates wound healing. (b) Improves fertility.								
	(c) Used in cancer treatment.	(d) U	Jsed in treatment	of haemophilic anemia.					
				$(12 \times 4 = 3 \text{ weightage})$					

Turn over

II.	Short Answer	Type	Ouestions.	Answer	anv nine	questions :	
	OHOI C THIOW CI	1.) PC	Questions.	THISVOI	ally runce	90.000.010110	•

- 13. IS elements.
- 14. Ethidium bromide.
- 15. RT-PCR.
- 16. Viroids.
- 17. HIV.
- 18. Cryptic plasmids.
- 19. Frame shift mutation.
- 20. Excision repair.
- 21. Passive transposition.

 $(9 \times 1 = 9 \text{ weightage})$

III. Short Essay or Paragraph questions. Answer any five questions:

- 22. Specialised transduction.
- 23. Ames test.
- 24. Retrotransposons.
- 25. RNA Viruses.
- 26. Lysogeny.
- 27. Missense mutations.
- 28. UV mutagenesis.

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

IV. Essay Questions. Answer any two out of three:

- 29. Site-directed mutagenesis.
- 30. Replication of viruses.
- 31. Types of plasmic's.

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