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6 SEM TDC ZOO M 3

2017

(May)

ZOOLOGY

(Major)

Course: 603

(Molecular Biology and Immunology)

Full Marks: 48
Pass Marks: 19/14

Time: 2 hours

The figures in the margin indicate full marks for the questions

	1110	for the questions	
ι.	(a)	Fill in the blanks: (i) nucleotides are present in one	×5=:
		turn of DNA helix. (ii) is the initiation codon in	
		genetic code.	r
		introducing desired DNA sequence into bacteria.	3

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- (iv) Lymphocytes are continuously made in ____ tissue.
- (v) ELISA is an ____ technique.
- Differentiate between any two of the following: 4x1
 - (i) Genome organization in prokaryotes and Eukaryotes
 - (ii) Replication and Transcription
 - (iii) Conjugation and Transduction
 - (iv) Antigen and Antibody
 - (v) Monoclonal and Polyclonal antibody antibody
- 2. What is nucleic acid? Write about different forms of DNA. the 1+6
- 3. Explain the prokaryotes. translation in process

What is central dogma? Explain the Wobble hypothesis

4. What is gene expression? Write about regulation of gene expression with Lac

- 5. Write about the different organs involved in immunity.
- 6. Write short notes on any two of the 31/2×2=7 following:
 - AIDS (a)
 - Clonal selection theory (b)
 - Immunodeficiency diseases (c)
 - Functions of immunoglobulin (d)

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