1.7.10.00, 2011-21001, 2017

Zoology

III. Molecular Biology and Taxicology

QP Code : 05095

(21/2 Hours) [Total Marks : 75 N.B. (1) All questions are compulsory. (2) Figures to the right indicate full marks. (3) Draw neat and labelled diagrams wherever necessary. Describe the following: (a) Hershey-Chase experiment. (a) Excision repair mechanism. (b) Semiconservative nature of DNA replication. (b) Photoreactivation. Explain the following:-(a) Lac operon. 7 (a) DNA binding Domains. (b) Alkylating and intercalating agents. (b) Heterochromatin and euchromatin. Describe the following: (a) Measurement of dose response relationship. (a) Scope of toxicology. (b) Venom of Honeybee and Coelenterates. OR (b) Threshold dose and NOEL. 8 4. Explain the following: (a) Phase I reaction. OR (a) Distribution and accumulation of toxicants. (b) Susceptibility of kidney and examples of nephrotoxicants.

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5.		nort notes on :—	
	. (a)	Theta (θ) mode of replication in bacteriophages.	
		OR	
	(a)	SOS repair mechanism.	
	(b)	UV radiation.	
		OR	
	(b)	Transition and transversion.	
	(c)	Caffeine.	
		OR	
	(c)	Mycotoxin.	
	(d)	Paracetamol	
		OR	
	(d)	Margins of safety.	