	GY

Time: 3 Hrs.

July - 2016

Marks: 70

SECTION - I: Botany

Q.1.	Select and write the most appropriate for each sub-question:	opriate answer from the given alternatives (7)	
(1)	(a) I ^A I ^A (b) I ^A I ^B	O' will be (c) <i>i i</i> (d) I ^A <i>i</i>	
(3)	'Cry' genes are present in (a) Agrobacterium tumefaciens (c) Rhizobium species	(b) Bacillus thuringiensis (d) Escherichia coli	
(4)	'Tropane' is obtained from	(b) Catharanthus roseus (d) Mentha piperata not fat soluble?	
(5)	(a) Vitamin A (b) Vitamin B How many meiotic divisions are requi	(c) Vitamin D (d) Vitamin V	
(6)	(a) 50 (b) 100 Energy flow in ecosystem is	(c) 200 (d) 250	
(7)	(a) reverse(c) bidirectionalEndosperm of angiosperm is	(b) unidirectional (d) multidirectional	
	(a) haploid (b) diploid	(c) triploid (d) tetraploid	

(a) malaria

(a) Banded Krait

(b) cancer

(c) AIDS

(7) For DNA fingerprinting radioactive probe obtained from is used in India.

(b) King Cobra (c) Viper

(d) high chloesterol level

(d) Rat snake

functions.

Q.6. (A	A) Answer the following in 'one' sentence each:	AL CO
(1) Give any two examples of commensalism.	(6)
. (2)) What is the common name of Apis mellifera?	
(3)	Which growth hormone is used to enhance dairy productivity?	
(4)	Define Linkage.	
(5)	Name of two classes to which <i>Archaeopteryx</i> acts as connecting link.	
(6)	Define the term natality.	
(B)	Sketch and label Malpighian body.	8)
(C)	Attempt any Two of the followings	(2)
(1)	Enlist any four sequential evolutionay names of human ancestors.	(4)
(2)	Give the significance of transgenic animals for betterment of life.	
(3)	Ove the economic importance of lac	
(4)	Give the fate of mesoderm.	
Q.7. (A)	Attempt any Two of the following:	
(1)	Explain the mechanism of sex determination in birds.	(6)
(2)	Give any two unique features of acquired immunity.	
(3)	With the help of pyramid, describe the growing population.	
(B)	Sketch and label reflex arc.	
Q.8.	ATAMES TYLE DISENSES OF PRIVACIONAL COLUMN C	(3)
2.0.	Explain the process of early cleavage till the formation of morula.	(7)
	OR	
	Describe five types of leucocytes, with the help of diagrams. Add a note on their	