	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) $I^A I^B$	' will be	
(2)	'Cry' genes are present in	(5) Write the formulae of the raw man als and lo	
	(a) Agrobacterium tumefaciens (c) Rhizobium species	(b) Bacillus thuringiensis (d) Escherichia coli	
(3)	'Tropane' is obtained from	(a) phenol in alkaline medium (b) Air	
	(a) Daucus carota (c) Datura stramoneum	(b) Catharanthus roseus (d) Mentha piperata	
(4)	Which of the following vitamins is no		
(5)	(a) Vitamin A (b) Vitamin B	(c) Vitamin D (d) Vitamin V	
(5)	How many meiotic divisions are requi	uired to produce 200 seeds?	
(6)	(a) 50 (b) 100 Energy flow in ecosystem is	(c) 200 (d) 250	
	(a) reverse (c) bidirectional	(b) unidirectional (d) multidirectional	
(7)	Endosperm of angiosperm is	(1) (a) How are the following polymers prepare	
	(a) haploid (b) diploid	(c) triploid (d) tetraploid	

(d) high chloesterol level

(d) Rat snake

(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

functions.

Q.6. (A) Answer the following in 'one' sentence each:	0
(1) Give any two examples of commensalism.	5)
(2) What is the common name of <i>Apis mellifera</i> ?	
(3) Which growth hormone is used to enhance dairy productivity?	-
(4) Deline 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.	
(C) Attempt any Two of the following:)
(1) Enlist any four sequential evolutionay names of human ancestors. (2) Give the giantification of the sequential evolutional names of human ancestors.)
(2) Give the significance of transgenic animals for betterment of life.	
(b) Give the economic importance of lac	
(4) Give the fate of mesoderm.	
Q.7. (A) Attempt any Two of the following:	0
(1) Explain the mechanism of sex determination in birds.)
(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. 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	
functions 1 and a note on their	