

GIET UNIVERSITY, GUNUPUR – 765022

RJ19BSCAG558

		Registration No:				
Total Number of Pages: 2			AR-2018 FIRST YEAR EXAMINATION-JULY 2019		B.Sc (Ag)	
			AG-11			
			Introductory			
Time : 2 Hours					Maximum : 50 Marks	
			(Answer all questions	s of Section $-A$)		
SECTION – A						
1.	Sh	ort type answer			[1x5 = 5]	
		• •	n by diversity of life?			
		What is eugenics?				
	c) Write down the importance of cell di			?		
d) What is the function			-			
	e)	Who is the father	of binomial nomenclature	?		
2.	Ma	atch the following?			[10x0.5 = 5]	
		<u>Column-I</u>		Column-II		
	a)	Hugo de Vries		a) Sepals		
	b)	÷		b) Pachytene		
	c)	Maize		c) Father of classification	on	
	d)	Alfalfa		d) Petals		
	e)	Chaismata		e) Mutation		
	f)	Crossing over		f) Schleiden and Schwar	nn	
	g)	Calyx		g) Poaceae		
	h)	Corolla		h) Fabaceae		
	i)	Imbibition		i) Diplotene		
	j)	Carolus Linnaeus		j) Swelling of seeds		
3. F	ill u	p the blanks.			[10x0.5 = 5]	
		-				
a. Scientists use taxonomy to of organisms?					ms?	
b. Taxonomy provides consistent ways to organisms?c is the basic biological unit in the linnaean system of classification?						
d had given the theory of evolution of species by natural selection?						
e. The process by which new species develop from the existing species is called?						
		Prokaryotic cells lac				
	g	Or	ganelle which serves as a	primary packaging area f	or molecules that will be	
distributed throughout the cell?						
h contains single chromosome and cell division occurs through fission or budding?						
i. Petals in Brassicaceae are?						
	j. N	Aitosis makes	laughter cells?			



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4. Multiple choice question:

[10x0.5 = 5]

- a) Who had given the theory of evolution of species by natural selection?A. Darwin B. Mendel C. Dalton D. Morgan
- b) Which of the following are the sources which provide evidences for evolution? A. Homologous organs B. Analogous organs C. Fossils D. All the above
- c) Name the organs which have different basic structure but have similar appearance and perform similar functions?
 - A. Analogous organs B. Homologous organs C. Both A and B D. Neither A nor B
- d) The theory of origin of life on earth is proposed by:A. Haldane B. Stanley Miller C. Harold C. Urey D. Lamarck
- e) In most species of plants, food is stored in A.Radical B. plumule C. cotyledon D.zygote
- f) First part which comes out of a seed is
 - A.Radical B.plumule C. stem D. cotyledon
- g) When seed is sown into soil, first thing which happens it
 - A. takes up water B. takes up oxygen C.bursts apart D. splits into two parts
- h) In Brassicaceae the flowers are zygomorphic A.Brassica B. Raphanus C.Iberis D.Lepidium
- i) Choose the correct statement with respect to unicellular organisms:
 A. in unicellular organisms, tissues work in co-ordination to perform different functions.
 B.unicellular organisms do not require food.
 C. unicellular organisms respire and reproduce.
 - D. all unicellular organisms move by cilia.
- j) The largest subunit of prokaryotic ribosome is A.30S B.40S C.50S D.60S

<u>SECTION – B</u>

(Attempt any **five** questions. Each question carries equal marks) 5x6=30

- 5) Explain Darwin's theory of evolution?
- 6) What is binomial nomenclature? Explain the process of classification with example?
- 7) Define cell? Write the brief sketch of prokaryotic cells with features?
- 8) Write down the morphological characteristics of family Brassicaceae?
- 9) Explain various stages of mitosis?
- 10) Describe the process of seed germination?