



BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – B.Tech.(ECE)-2019
Course Name – Biology
Course Code - BSC(ECE)401
(Semester IV)

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Brainware University
Barasat, Kolkata -700125

		Time: 2: ks. Candidates are required to give their answers			
	own word	ds as far as practicable.]			
		Group-A			
	(Multiple Choice Type Question)				
1.	Choose the correct alternative from the		x 15=15		
(i)	(i) The tendency of an offspring to resemble its parent is known as				
	a) Variation	b) Heredity			
	c) Resemblance	d) Inheritance			
(ii)	The tendency of an offspring to resemb	le its parent is known as			
	a) Variation	b) Heredity			
	c) Resemblance	d) Inheritance			
(iii)	known as powerhouse of the cell?				
	a) mitochondria	b) nucleus			
	c) endoplasmic reticulum	d) lysosomes			
(iv)	Enzymes are				
	a) Proteins	b) Carbohydrates			
	c) Lipids	d) None of these			
(v)	The process of protein synthesis takes place in which of the following cell organelles?				
	a) Nucleus	b) Cytoplasm			
	c) Vacuoles	d) mitochondria			
(vi)	Name the simplest amino acid				
	a) Asparagine	b) Alanine			
	c) Tyrosine	d) Glycine			
(vii)	Cell membrane is a				
	a) carbohydrate bilayer structure	b) lipid bilayer structure			
	c) protein bilayer structure	d) nucleic acid bilayer structure			
	The tendency of an offspring to resemb				
	a) Variation	b) Heredity			
	c) Resemblance	d) Inheritance			

(ix) Which of these bacterial components is least likely to contain useful antigens?

	a) flagella c) ribosomes	b) capsule		
(x) Chromosomes are seperated during	d) cell wall		
•	a) Telophase	b) Prophase		
	c) Anaphase	d) Metaphase		
()	ci) The alternate form of a gene is			
	a) Alternate type	b) Recessive character		
12	c) Dominant character	d) Allele		
(x	ii) Which of the following statements is true abo	ut chromosomes?		
	a) It is present within the nucleus	b) It carries genes and helps in	inheritance	
	 c) It is composed of DNA in the form of Chromatin and protein 	d) all of these		
(x	iii) Which of the following is not a double membr	rane-bound organelle?		
	a) Chloroplasti	b) Mitochondria		
	c) Endoplasmic Reticulum	d) all of these		
(x	iv) Which of the following statements is true abo	ut proteins?		
	a) Proteins are made up of amino acids.	 b) Proteins are essential for the of skin, teeth and bones. 	development	
	 c) Protein is the only nutrient that can build, repair and maintain body tissues. 	d) all of these		
(x	v) Chromosome structure can be observed best	during		
	a) Metaphase	b) Anaphase		
	c) Prophase	d) None of these		
		up-B	3 x 5=15	
(Short Answer Type Questions)				
	(Answer any Five	from the following)		
2	M/hat is magnet by assemblementary, base resision 2		(2)	
	What is meant by complementary base pairing? Define gene.	(3)		
	What are Thylakoids? Where are they found?		(3) (3)	
	What is meant by phenotype?	(3)		
	How do RNA and DNA differ chemically?		(3)	
	C	PR		
	Define promoter. Mention its function in transcri	ption.	(3)	
		up-C		
	(Long Answer T	경소하는 그는 양 시간 내가 보았습니다. 그렇게 그렇게 되는 그 보다는 사람들이 되었다고 있다. 모모모	5 x 6=30	
	(Answer any Six fr	rom the following)		
	Mention the differences between prokaryotic ar	(5)		
8. 9.	Describe the structural organisation of proteins. Explain the steps of DNA replication.	(5)		
	Explain the structure and functions of different t	(5)		
	Explain the structure and functions of difference Explain the process of protein biosynthesis (tran	(5)		
	What are the three types of asexual reproduction	그는 이 그들이 그렇게 하는 이번 그는 그 사람이 아르는데 아이는 이번 등을 모르게 살아갔다.	(5)	
	O	사용하는 사람들은 사람들이 나를 하는 것이 되었다. 그렇게 되었다면 하다 전에 보는 것이 되었다면 하다.	(5)	
	Describe the process of pollination.		(5)	
	And the state of the second			
