CS/B.TECH(N)/ODD/SEM-3/3500/2022-2023/1019

MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code: CE(BS)301 Blology for Engineers

Time Allotted : 3 Hours

UPID: 003500

Full Marks :70

The Figures in the margin indicate full marks. Candidate are required to give their answers in their own words as far as practicable

Group-A (Very Short Answer Type Question)

1. Ans.	No. 1 of the fallows	· ····································	Type Question)		
(1)	ver any ten of the following:				[1 x 10 = 10]
(II)	Genetic codes are		,		
(III)	Name the inhibition where end products	Of binsynthan		111 - #t 007VM	e?
(IV ₎	ame the inhibition where end products of biosynthesis pathway inhibit the activity of the first enzyme? which portion of the growth curve bacteria shows rapid growth is observed? /hat is the basic unit of classification?				
	What is the basic unit of classification?	and shows rapid growth	is observed?		
(V)	Which disorder is also called the Royal a	disassa	.*		
(VI)	The the polysaccharides sweet like such			. 2.3	
(VII)	now many base pairs are found.	*7. *			
(*116)	anti-parallel stran	A OF DAIR .			
	How many molecules of acetyl CoA are which microscope is used to visualize in	O OF DINA IS	_	Transfer of	. •
(X)	Which microscope is used to visualize in	generated by a single m	rolecule of glucose v	which enters the h	(rebs cycle.
(XI)	If a plant with genotype Aaph is salt a	virig cells?			
(Xii)	If a plant with genotype AaBb is self-fertil Distance between two adjacent nitrogen	bases of DNA is	getting AABB genoty	pe will be (A and	B are not linked)
		Dases of DINA is			
	Grou	p-B (Short Answer Ty	pe Question)		
	The state of the s	Answer any three of the	following		$\{5 \times 3 = 15\}$
2. Exp	plain the following terms with example				,
					[5]
3 244	ncomplete dominance				
ii) '	low peptide bond formation takes place? g	rive the structure.			
	Amino acids exist as zwitterions". Give its plain the concept of taxonomic hierarchy.	structure and why is it f	ormed?		[5]
5. De	line and design a test-cross.			the first of	
6. W	nen a cross in made bothyood tell at a training				[5]
þr	nen a cross in made between tall plant with oportions of phenotype in the offspring coul	yellow seeds (TiYy) ar	nd tall plant with gre	en seed (Ttyv), wh	[5]
	oportions of phenotype in the offspring coul	a de expected to be (a)	tall and green and	(b) dwarf and gree	[5]
	Grou	p-C (Long Answer Ty)	pe Question)		A A
		Inswer any three of the	following		
- 1-	S SAULUS did Mandal abroad non plant for his				$[15 \times 3 = 45]$
(h) Why did Mendel choose pea plant for his () How is human sex determined?	experiment?			10.0
(0) Give differences between mitosis and mei	osis		and the second	[5+5+5]
8. 1:	What is alycogen? How is it different from	starch?			10 m
0	Ninat are essential and non-essential ami	ino acids? Give two ex-	amples		[5]
· (c) Write a short note on monosaccharides.	Sire (iii Cx)	amples of each type	•	[5]
		raits are inherited inde	·.	• .	(5)
9. (a) How do Mendel's experiments show b) Explain how colour blindness is passed in	children?	pendently?		[10+5]
	· i-seachia (1 175
		RNA			[15]
11/2	Vrite a note on thalassaerma: a) Briefly describe the Clover leaf model of the Clover leaf mode				[10]
(b) Write a short note on	. ^	1.1		[5]
				÷.	