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Sr. No. 0192

ENTRANCE TEST-2019

SCHOOL OF BIOLOGICAL SCIENCES BIOTECHNOLOGY Paper-II

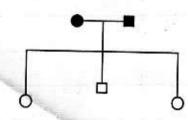
Total Questions : 20
Time Allowed : 120 Minutes Roll No. :

Section 2000 Control of the Control	
Roll No. :	

Note: - Each question carries 2 marks.

(Given pKa acetic acid = 4.76 and le	$10.30 \mathrm{M}$ sodium acetate is mixed, calculate the pH of the existing so $\log(15) = 1.18 \mathrm{approx.}$	
(Given p.K.a acetic acid - 4.70 and is		
What is the concentration of H+ in a	a solution of 0.1 M NaOH ?	
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3.	Draw a pair of free energy diagrams with correctly labeled axes that show the differences between the following reactions: an endergonic reaction versus an exergonic reaction.
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27.50	activity. Why doesn't this observation prove that the active site includes a Lys residue?
5.	One form of congenital deafness in humans is inherited as a recessive condition and controlled by two independent genes (A and B). In the pedigree shown below, two deaf individuals have children with normal hearing ability. What



would be the probable genotypes of the deaf parents?

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Explain the role of Mg2+ ions in ATP h	ydrolysis under in vivo	conditions.		
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Explain briefly, splicing.				
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. How do retroviruses cause cancer?				
			47.3	
. Draw structure of phosphatidylcholine.	0.10 079			
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0. Draw the structure of Serine.				
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What role does cAMP play in lac operon?		
. What is the difference between a BAC and Y	AC?	ans a who have a
. What is the difference between a 1971 o min		
3. Explain the role of epinephrine.		
5. Explain the fole of epinepin ite.		
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Calculate the doubling time for bacterial cell mass (in exponential phase), given ne Plot substrate saturation curve for the action of Phosphofructokinase-1 using F6P a o the curve in the presence of AMP and ATP.	
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o the curve in the presence of Aivin and Airi.	
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17. List any two differences between DN	A pol II and III of E.c.	oli.		
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18. Explain role of MHC class II molecules.				
to le of whice class II molecules.			100	
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	aracteristics it must p	ossess.		¥
9. What is cloning Vector? List 2 essential ch	aracteristics it must p	ossess.		
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