國立中山大學 101 學年度碩士暨碩士專班招生考試試題

科目:生物化學【海資系碩士班甲組選考】

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	of the following pairs of sugars consists of	- 14 - 14 - 14
	s, or (c) an aldose-ketose pairs	
() 1. D-glucose and D-1		
() 2. D-glyceraldehyde	· · · · ·	Ž
() 3. α -D-glucose and	· -	<i>/</i> -
() 4. D-glucose and D-f	·	
() 5. D-galactose and D	p-glucose.	
II. (5%) Match the catabolic pr	roducts in the right column with the amino acids in	
the left column from whi		
1. () Alanine	a. α -Ketoglutarate	
2. () Aspartate	b. Pyruvate	
3. () Isoleucine	c. Oxaloacetate	
4. () Glutamine	d. Succinyl-CoA	
5. () Serine		
III. (30%) Explain the following	a terms	
1. glycobiology:	S CALLE.	
2. primary structure of prote	eins:	
3. proteomes:		
4. SDS-PAGE:		
5. transcription:		
6. Western Blotting:		
7. Z scheme of photosynthe	esis:	
8. rubisco:		
9. glucogenic amino acids:	*	
10. acetyl CoA carboxylase:		
IV.問答題:		
1. (4%) What are the minimal re	requirements for DNA replication?	
2. (3%) Explain briefly how enz	zymes accelerate the rate of reactions.	
3. (2%)The sequence 6 bp restri	iction cleavage site for EcoRV is GATXXX. What is the	complete
	stranded restriction site?	*
4. Draw the structure:		
	(2). (3%) β -D-Ribofuranose:	
(2) (6) 11 2 021100\$\(\frac{1}{2}\) 111100\$	(2). (370) p D Ideoldidiose.	
5. (10%) Give the name, three,	one-letter abbreviation and draw the structure of the follo	owing
	charged at neutral pH.	- · · · - · · ·

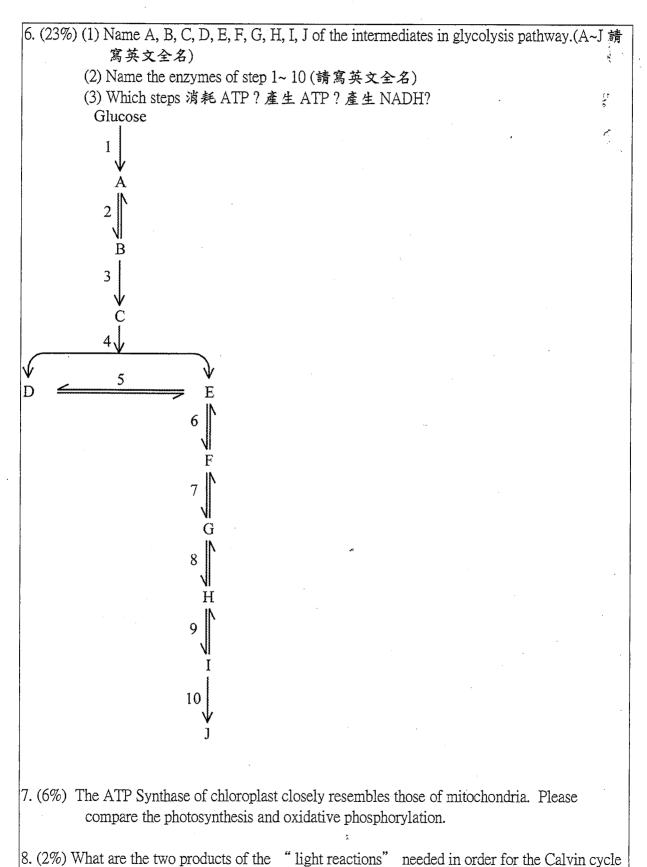
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to function?

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