臺北醫學大學 90 學年度第 > 學期期中考試命題紙

系		級	科	B	授課教師	考	試	月	期	學	號	姓	名		
	3=		生物	7	課建刻	914	<u>6</u> 月	20 日第	銌						
	<u>(1)</u>)請:	注意本語 張試題	試題共 <u></u> 張 卷務必填寫(學號	。加勢相百動ス	下足及空!	白頁或	.缺印・應1	當場請习	ド補齊・ 否則	训缺少部份概则	以零分計	- 0		
A	IIS'	wer	ALL (questions, as the	re is no penal	ty for wa	rong a	unswers. (4	 40%)		·				
() 1	1 The	•											
(Who mol	When glutamate dehydrogenase generates α-ketoglutarate from glutamate, which of the following molecules is utilized? (A) NAD ⁺ (B) NADP ⁺ (C) NADH (D) NADPH (E) none of the above											
(,		3 Urea	Urea is the byproduct of which enzymatic reaction? (A) arginosuccinate synthetase (B) arginase (C) arginosuccinase (D) ornithine transcarbamoylase (E) carbamoyl phosphate synthetase I											
()) 4	4 Whi phos	Which of the following enzymes catalyzes the initial reaction in polyamine biosynthesis? (A)carbamoyl phosphate synthesis I (B) aspartate transcarbamoylase (C) thymidylate synthase (D) serine hydroxymethyltransferase (E) ornithine decarboxylase											
()	1 5	5 Wha	What is the cellular role of ubiquitin? (A) protein translocation (B) protein folding (C) protein degradation (D) calcium binding protein (E) electron transport											
()) 6	6 Nitri	ric oxide is synt aragine (E) trypto	thesized by N					lysine (B)) glutamine	(C) argi	nine (D)		
()) 7	Tetra dihy	ahydrobiopterin drofolate reducta	is a coenzymase (D) ribon	ne of (A	(1) phe le redu	nylalanine ctase (E)	e hydro methio	oxylase (B)) histidine de	ecarboxy	ylase (C)		
()	8	Whice dehy	ich of the follo ydrogenase (B) o notransferase	owing enzyme	e activi	ity in	serum is	s an ir	ndicator of	f liver demo) malate) alanine		
)	9	oxalo	The two enzyme catalyzed reactions that utilize cobalamin (from Vitamin B_{12}) as a cofactor are the ones converting: (A) methylmalonyl-CoA to succinyl CoA and homocysteine to methionine (B) aspartate to oxaloacetate and glutamate to γ -aminobutyric acid (GABA) (C) tryptophan to serotonin and tyrosine to 3,4-dihydroxyphenylalanine (DOPA) (D) norepinephrise to epinephrine and lysine to trimethyllysine (E) valine to α -ketoisovaleric acid and α -ketoisovaleric acid to isobutyryl COA											
. ,)	10	Whic	ch of the following ysine (B) glycine	ing compound	ds does	NOT	contribute	e any c	carbons dire		ne biosy	nthesis?		
)	11	What blood and C	t is (are) the biod dstream (B) defi	chemical and a	genetic s iPRT en	sympto	oms of Le (C) eleva	sch-Ny ted ser	yhan syndr um uric ac	ome? (A) institution of the contract of the co	sufficient) A and	t ATP in C (E) B		
)	12	Durin (C) g	ng the biosynthe lutamine (D) A a	sis of cysteine and B (E) A ar	e, which nd C	ı of th	e followir	ng is th	e precurso	r? (A) methic	onine (B	s) serine		
)	13	Durin TMP	ng the biosynthe (B) TDP (C) dU	sis of dTMP, JMP (D) UMF	, which (E) UE	of the OP	e followin	ıg is th	ie immedia	ite precursor	of dTM	1P? (A)		
)	14	Uric a	acid is: (A) a hig y water-soluble p	thly water-solupurine analog	uble pyr (D) a ra	timidir ather ir	ne analog nsoluble p	(B) a raurine a	ather insolunalog (E) r	uble pyrimidinone of the al	ine analc bove	og (C) a		

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臺北醫學大學____90 學年度第___> 學期期中考試命 題紙

系	极	₹		目	授課教師	考		E	期	學	5 £	姓	老
压			如伙贤		3東建立		6月2				1.77		
*	1	青注	意本試題共 リ		如發現頁數					· 文補齊	否則缺少部份概以	人零分 計	t •
	②每張試題卷務必填寫(學號)、(姓名)。												
() 15 The chemotherapeutic drug methotrexate reduces DNA synthesis by inhibiting: (A) ribonucleotide reductase (B) dihydrofolate reductase (C) glutathione reductase (D) HMG-CoA reductase (E) thioredoxin reductase												
() 16 Both liver and muscle can degrade glycogen, yet only liver is able to export the glucosyl residues into the blood. What accounts for the difference? (A) Muscle cannot convert the glucosyl residues of glycogen to glucose 1-phosphate. (B) Muscle cannot convert glucose 1-phosphate to glucose 6-phosphate. (C) Muscle cannot convert glucose 6-phosphate to free glucose. (D) Muscle lacks a glucose transporter.												
()	17	Glucokinase CoA is high (glucose levels a is low	re high	(C) acetyl
()	18	Which of the β-hydroxybut			: દ ાકાશુ	y source	s of the	ne brair	n? (A)	glucose (B) fat	(C) pr	rotein (D)
() 19 Glucagon (A) stimulates the formation of glycogen and inhibits the breakdown of glycogen (B) inhibits the formation of glycogen and stimulates the breakdown of glycogen (C) simultaneously inhibits the formation of glycogen and glycogen breakdown (D) simultaneously stimulates the formation of glycogen and glycogen breakdown												
()	20	The coenzyme (D) FADH ₂ (F			reducta	ise is (A) 10-fo	rmyl-TI	HF (B)	5,10-methylene	THF (0	C) NADH
Ex	pla	in w	hy diabetes me	ellitus	may be descr	ibed as	a disord	er of lij	oid meta	ıbolism	ı. (5%)		
								•					
Ex	pla	in bi	riefly why amn	nonia i	s highly toxic	e to brai	n cells. ((5%)					
Ex	Explain why alcoholism can sometimes cause hypoglycemia, lactic acidosis and hypoglycemia. (5%)												
					*				•				

第 (↓之 >)

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私立臺北醫學院_90_學年度第_>學期期中考試命題紙

系	級	科	目	授	课教后	币考	試	E	期	學	就	姓	名
压		生物化学		乘	建刻	91#6			鈴				
*	①請 ②每	注意本試題共 <u>↓</u> 張試題卷務必填寫(張 c (學號	。如引) 、 (發現頁數 姓名)。	收不足及空白 。	頁或缺	印,應當	當場請求	∤補齊, 否	則缺少部份概以	人零 分計	0
						配	合	題(初	复選)	•			
				題	目欄			答	案 欄				
				1	Pheoc	chromocytoma		Α	Amin	e derivatives	S		
				2	K^+ Ch	iannel		В	Effect	er			
								C	Modu	lator			·
								D	Steroi	d hormone			
					•							•	
				3	ras ge	ne		Α	Anti-g	growth			}
				4	rb gen	ie		В	Domi	nant			
								C	Prolife	eration			
								D	Reces	sive			

答 案 纸

(共 30 分)

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答	В	0	0	0	0
	C	0	0	0	0
案	D	0	0	0	0

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第(中之子)頁

私立臺北醫學院_90_學年度第_>學期期中考試命題紙

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系	級	科	且	授課教師	考	試	日	期	學		貌	姓	名
匝	ر م	生物化学		孫建え	91 46		20 日第		1				
*	(1)請 ② 每	∮注意本試題共 ∙張試題卷務必	張 填寫(學號	。如發現頁數 ²)、(姓名)。	下足及空台	自頁或	缺印,應	當場請決	求補齊,	・否則缺少	部份概.	以零分計。	
		1	. 如何利用	目 pronuclear mic	roinjection	的技術	断製作出 (ransgeni	c animals	s ? (8%)		,	
		2	・	over-expression 可 小transgene 表現	以 ectopic-e L的	express1	on Z tran 。 並請嬰	sgenic ar 例信分明:	iimals・』 ク。(7%)	其關鍵在於 N	所		
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