	學系別	考試科目	考試日期	時間	
	學士後獸醫學系	生物化學	112.04.29	13:30-15:00	
1.	What is the primary different	ence between prokary	otic and eukar	yotic cells?	
	A. Prokaryotic cells lack a cytosol				
	<b>B.</b> Prokaryotic cells lack a nucleus				
	C. Prokaryotic cells lack a	cell envelope			
	<b>D.</b> Prokaryotic cells are multi-compartmented				
2.	Which one of the followin	g amino acids is nonp	olar?		
	A. Phenylalanine B. Serine C. Threonine D. Cysteine				
3.	What is the origin of the capacity for oxidative phosphorylation in eukaryotic				
	cells?				
	A. Endosymbiosis with oth	ner eukaryotic cells			
	<b>B.</b> Endosymbiosis with ba	cteria			
	C. Horizontal gene transfe	r from bacteria			
	<b>D.</b> None of the above				
4.	Which complex in the resp	oratory chain does NC	OT direct incre	ease the	
	electrochemical proton gradient?				
	A. Complex I B. Complex II C. Complex III D. Complex VI				
5.	What type of interaction is	decisive in protein an	nd nucleic acio	l folding?	
	A. Covalent bonds B. Hyd	rogen bonds			
_	C. Ionic bonds D. Van der	Waals interactions			
6.	Which of the following car	rbohydrate is NOT a h	nomopolysacc	haride?	
	A. Starch B. Peptidoglyca	n <b>C.</b> Cellulose <b>D.</b> Gly	cogen	~	
7.	What buffer systems can n	naintain intracellular a	and extracellul	ar fluids at their	
	optimum pH in cells and ti	ssues?			
	A. Nitrate and sulfate buff	er systems			
	<b>B.</b> Carbonate and hydrogen	n sulfide buffer syster	ns		
	<b>D</b> . Dhogphoto and biographic	10 buffer systems			
0	<b>D.</b> Phosphate and dicardon		1		
δ.	A Clusses <b>B</b> Emistage C	rbonydrates is non-red	lucing?		
	A. Glucose <b>B.</b> Fructose <b>C</b> .	Lactose <b>D</b> . Sucrose			
9.	Histidine has the following	$g pK_a$ values: $pK_1 = 1$ .	82, $pK_2 = 9.1$	$y, pK_{\rm R} = 6.0$	
	Give the net charge of histidine at $pH = 4$				
	<b>A.</b> 0 <b>B.</b> +1 <b>C.</b> +2 <b>D.</b> -1				
10.	Which protein is involved	in some neurodegene	rative diseases	5?	
	A. Albumin B. Amyloid C	<b>C.</b> Hemoglobin <b>D.</b> My	oglobin		
11.	Which amino acids do NO	T exist in stereoisome	eric forms?		
	A. Glycine B. Alanine C. A	Aspartic acid <b>D.</b> Phen	ylalanine		

	學系別	考試科目	考試日期	時間
	學士後獸醫學系	生物化學	112.04.29	13:30-15:00
12.	How are defective proteins	s degraded?		
	A. They are degraded by p	proteasomes, which ar	e not highly c	onserved.
	<b>B.</b> They are first tagged by	y linkage to ubiquitin,	a highly cons	erved protein.
	<b>C.</b> They are not degraded,	but are instead excret	ted from the c	ell.
	<b>D.</b> They are degraded by a	an ATP-independent sy	ystem.	
13.	How are amino acids class	sified based on their R	group?	
	A. According to their size			
	<b>B.</b> According to their shap		-	
	C. According to their polar	rity and charge at pH	/	
1 /	<b>D.</b> According to their adm Which of the following is	ty to form nydrogen b	onds	nea to initial
14.	which of the following is	the first antibody to a	ppear in respo	inse to initial
	exposure to an antigen?	I~D		
1 -	A. IgO B. IgA C. IgWI D.	IgD	·	
15.	Which of the following ch	romatographic proced	lures 15 NOT u	used to separate
	proteins?			
	A. Ion-exchange chromatography <b>B.</b> Gel filtration chromatography			
10	C. Affinity chromatography D. Gas chromatography			
10.	A Signal acquances are al	true about protein targ	geting in euka	ryotic cells?
	A. Signal sequences are an synthesized protein	lways located at the ca	arboxyi terimi	ius of a newry
	<b>B.</b> Polypeptides with signa	al sequences are move	ed into the Go	lgi apparatus as
	they are synthesized.	1		6 11
	C. Proteins targeted to the	nucleus have an inter	mal signal seq	uence cleaved once
	the protein is successfu	lly targeted.		
	<b>D.</b> Proteins targeted to mit	tochondria and chloro	plasts do not u	use an
1 5	amino-terminal signal s	sequence.		
17.	How does electrophoresis	separate proteins?		
	<b>A.</b> By differences in their j	primary structure		
	<b>C</b> By differences in their 1	hydrophobicity		
	<b>D.</b> By differences in their i	mass or charge		
18.	Which of the following is	the major contributor	to stabilizing	the globular form of
101	most soluble proteins?		8	
	<b>A</b> . Hydrophobic effect <b>B</b> .	Van der Waals interac	tions	
	C. Ionic interactions <b>D</b> . Hy	vdrogen bonds		
19.	Which amino acid has two	chiral centers?		
[	A. Glycine <b>B.</b> Tyrosine <b>C</b> .	Valine <b>D.</b> Isoleucine		
	·			

	學系別	考試科目	考試日期	時間
	學士後獸醫學系	生物化學	112.04.29	13:30-15:00
20.	<ul> <li>20. What is the quaternary structure in proteins?</li> <li>A. The arrangement of a protein's side chains</li> <li>B. The local spatial arrangement of the main-chain atoms in a selected segment of a polypeptide chain</li> <li>C. The complete three-dimensional structure of a polypeptide chain</li> </ul>			
21.	<ul> <li>D. Interactions between the subunits of multi-subunit proteins or large protein assemblies</li> <li>21. What is the primary carrier of energy within cells?</li> </ul>			
22.	<ul> <li>A. NADH B. NADPH C. FADH<sub>2</sub> D. ATP</li> <li>22. What is the role of Hsp70 chaperones and chaperonins in protein folding?</li> <li>A. They catalyze the disulfide-bond formation</li> <li>B. They facilitate protein folding</li> <li>C. They degrade misfolded proteins</li> <li>D. They isomerize Propertide bonds</li> </ul>			
23.	<ul> <li>3. What is the primary electron donor in reductive biosynthesis?</li> <li>A. NADH B. NADPH C. FADH<sub>2</sub> D. ATP</li> </ul>			
24.	<ul> <li>4. Which of the following statements is true regarding hemoglobin?</li> <li>A. Oxygen binding to hemoglobin is not allosteric</li> <li>B. Oxygen binding to hemoglobin is cooperative and allosteric</li> <li>C. Hemoglobin exists in a single structural state</li> <li>D. Hemoglobin contains a single heme prosthetic group</li> </ul>			
23.	<b>A.</b> Restriction enzyme <b>B.</b>	DNA ligase C. Plasm	id <b>D.</b> DNA top	poisomerases
26.	Which immunoglobulin cl A. IgA B. IgG C. IgD D. I	ass is the most abunda gE	ant in humans'	?
27.	Which technique exploits to A. Western blotting <b>B.</b> No: C. Southern blotting <b>D.</b> Pe	the binding specificity rthern blotting olymerase chain reacti	/ of immunogl on	obulins?
28.	<ul><li>Which of the following me</li><li>A. Polymerase chain react</li><li>C. Sanger dideoxy method</li></ul>	ethods can determine p ion (PCR) <b>B.</b> Edman d <b>D.</b> Oligonucleotide s	protein sequer degradation synthesis	ice?
29.	<ul> <li>What is the function of Ca</li> <li>A. It binds to myosin to pr</li> <li>B. It binds to troponin to the troponin-tropomyosin c</li> <li>C. It binds to actin to prom</li> <li>D. It binds to myoglobin to</li> </ul>	<sup>2+</sup> in muscle contraction omote its dissociation rigger a conformation complex. note its dissociation fr o promote oxygen bin	on? from actin. al change in a rom myosin. ding.	

112 學年度學士後獸醫學系招生考試試題紙

	學系別	考試科目	考試日期	時間		
	學士後獸醫學系	生物化學	112.04.29	13:30-15:00		
30.	Which step of polymerase	chain reaction (PCR)	cycle requires	s the highest		
	temperature?	, ,	5	8		
	<b>A.</b> Annealing <b>B.</b> Elongatio	on <b>C.</b> Hybridization <b>D</b>	. Denaturation	ı		
31	. What is the function of enzymes in a reaction?					
51.	<ul> <li>A. To stabilize the reaction products</li> <li>B. To change the equilibrium constant of the reaction</li> <li>C. To increase the activation energy of the reaction</li> </ul>					
	<b>D.</b> To lower the activation	energy of the reaction	1			
32.	<b>D.</b> To lower the activation energy of the reaction 2. What type of inhibitor Y is the following Lineweaver-Burk plot shown?					
	<sup>1/V</sup> Inhibitor Y	U	1			
	1/V <sub>Max</sub>					
	1/K <sub>m</sub> 1/[S]					
	<b>A</b> Competitive inhibition <b>B</b> Noncompetitive inhibition					
	<b>C</b> . Uncompetitive inhibition	on <b>D</b> . Irreversible inhi	ibitors			
22	What is the definition of the	$\sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i$	Michaelis Ma	ntan aquation in		
55.		ie constant $K_m$ of the		inten equation in		
	A The concentration of or		no option noto	a qual ta ana half		
	A. The concentration of en	izyme that results in a	reaction rate	equal to one-nall		
	$v_{\text{max}}$ <b>B</b> The substrate concentra	tion that results in a r	eaction rate ec	uual to one-half V		
	<b>C</b> . The maximum rate of a	n enzyme-catalyzed r	eaction at satu	ration		
	<b>D.</b> The turnover number of	f an enzyme				
34.	Which amino acid has an i	ndole ring?				
	<b>A</b> . Asn <b>B</b> . Trp <b>C</b> . Lys <b>D</b> . P	ro				
35.	What is the primary mean	by which the activity	of allosteric e	nzvmes?		
	A. Cleavage of zymogens	- j		<b>)</b>		
	<b>B.</b> Covalent modification					
	C. Reversible binding of a	specific modulator to	a regulatory	site		
	<b>D.</b> Remove inhibitor					
36.	Which amino acid signific	antly affects the tertia	ry structure of	f the protein?		
	A. Asn B. Trp C. Lys D. P	ro				
37.	What is zymogen?					
1	A. Enzymes that are synthetic environment of the synthetic environment of	esized as inactive pre-	cursors and ac	tivated by cleavage.		
	<b>B.</b> Enzymes that are regulated and the regulation of the second	ated by covalent modi	fication.			
1	C. Intermediates in metabo	olic pathways.				
	<b>D.</b> Modulators that bind to	allosteric enzymes.				

	學系別	考試科目	考試日期	時間
	學士後獸醫學系	生物化學	112.04.29	13:30-15:00
38.	Which amino acid plays a	key role in N-linked g	glycosylation?	(N-glycans are
	attached to the nitrogen at	om of this amino acid	)	
	A. Asn B. Trp C. Lys D. P	ro		
39.	Which of the following is	a polysaccharide that	serves as a str	uctural component
	in the exoskeletons of arth	ropods such as crusta	ceans and inse	ects?
A. Starch B. Cellulose C. Chitin D. Dextran				
40.	Which of the following ch	aracteristics describe	glycoproteins	?
	A. Proteins with covalentl	y attached oligosacch	arides	
	<b>B.</b> Glycoconjugates with s	sulfated glycosaminog	glycans covale	ntly attached to a
	core protein			
	C. Extracellular structural	proteins that provide	rigidity to tiss	sues
	<b>D.</b> Heteropolysaccharides	that strengthen bacter	rial and algal c	cell walls
41.	What is the difference betw	ween RNA and DNA'		
<b>A.</b> RNA contains thymine, while DNA contains uracil				
	<b>B.</b> RINA contains adenine,	while DNA contains	guanine	
	<b>D</b> RNA contains ribose y	while DNA contains d	eoxyribose	
42	How are nucleotides joined	d together to form nuc	cleic acids?	
	<b>A.</b> By covalent bonds bety	ween the phosphate gr	oups	
	<b>B.</b> By phosphodiester link	ages between the 5'-h	nydroxyl grou	o of one pentose and
	the 3'-hydroxyl group of	of the next		1
	C. By peptide linkages be	tween the nitrogenous	s bases	
	<b>D.</b> By hydrogen bonds bet	ween the nitrogenous	bases	
43.	Which of the following aq	ueous solutions has th	ne lowest pH?	The solutions have
	H <sup>+</sup> concentration respectiv	ely of		
	<b>A</b> . $3 \times 10^{-4}$ mol/L <b>B</b> . $8 \times 10^{-3}$	$^{3}$ mol/L C. 2×10 <sup>-10</sup> mo	ol/L <b>D</b> . 4×10 <sup>-6</sup>	mol/L
44.	What is a method for routi	ne DNA sequencing of	of gene segme	nts?
	A. Polymerase chain react	ion (PCR) <b>B.</b> Edman	degradation	
	C. Sanger dideoxy method	d <b>D.</b> Oligonucleotide	synthesis	
45.	What is the role of adenosities	ine triphosphate (ATP	) in cells?	
	<b>A.</b> It is a cofactor for enzy	me catalysis.	11	
	<b>B.</b> It is the central carrier of	of chemical energy in	cells.	1 1.1
	c. It is a common second	messenger produced	in response to	normones and other
	<b>D</b> It serves as a neurotran	smitter in signaling p	athwave	
	<b>D.</b> It serves as a neurotran	sinuer in signaling p	amways.	

	學系別	考試科目	考試日期	時間	
	學士後獸醫學系	生物化學	112.04.29	13:30-15:00	
46.	How does the genetic code	vary among differen	t species?		
	A. There are significant variations in the codon sequences that specify amino				
	acids.				
	<b>B.</b> The code is universal in	all species except for	r single-celled	organisms.	
	C. The code is universal in all species, but there are minor deviations in				
	mitochondria and some	single-celled organis	ms.		
	<b>D.</b> The code is completely different in every species.				
47.	Which technique allows for	or the amplification of	chosen segme	ents of DNA for	
	cloning?				
	A. Polymerase chain react	ion (PCR) <b>B.</b> Edman	degradation		
	C. Sanger dideoxy method	<b>D.</b> Oligonucleotide s	synthesis		
48.	Which of the following is	NOT a signal for term	ination of trai	islation in bacteria?	
	A. UGA B. UAG C. UAA	<b>D.</b> AUG			
49.	What is the primary function	on of triacylglycerols	?		
	A. To act as a storage form	n of energy			
	<b>B.</b> To serve as a componer	it of cell membranes			
	C. To act as a structural su	pport for cells			
50	<b>D.</b> 10 facilitate communic	ation between cells			
50.	where does transcription s	top in bacteria?			
	A. At the terminator seque $C$ At the promotor seque	ence <b>B</b> . At the complete $\mathbf{D}$ At the signal so	mentary seque	ence	
51	Which amino acid residuer	are commonly found	quelice	ustar interface of	
51.	transmamhrana protoing?	s are commonly found	at the lipid-w		
	A Arg and Lug <b>P</b> Asp and	Clu C Sor and Thr	D Tur and Tr		
50	A. Alg and Lys D. Asp and What is the first step of he	atorial transprintion?		)	
32.	A Binding of PNA polym	verse to the promotor			
	<b>B</b> Binding of RNA polym	erase to the terminato	nr.		
	<b>C.</b> Elongation of RNA syn	thesis	1		
	<b>D.</b> Termination of RNA sy	rnthesis			
53.	What is the primary factor	that affects the fluidit	ty of biologica	al membranes?	
	<b>A.</b> The temperature, fatty	acid composition, and	sterol conten	t	
	<b>B.</b> The presence of integra	l membrane proteins		-	
	<b>C.</b> The presence of lipid ra	afts			
	<b>D.</b> The size of the membra	ne vesicles			
54.	What is the primary fuel for	or heart muscle to obta	ain ATP?		
	A. Glucose B. Fatty acids	C. Ketone bodies D.	Phosphocreati	ne	
55.	What type of transport is u	sed by the lactose trai	nsporter of E.	coli?	
	A. Passive transport B. Pri	imary active transport			
	C. Symport D. Antiport				

	學系別	考試科目	考試日期	時間	
	學士後獸醫學系	生物化學	112.04.29	13:30-15:00	
56.	What is the end products of	of purine degradation i	in human?		
	A. Uric acid B. Creatinine	C. Ammonia D. Lact	ic acid		
57.	<ul> <li>What is the function of aquaporins?</li> <li>To correct ions across membranes</li> </ul>				
	A. To carry ions across me	embranes			
	<b>B.</b> To maintain the different	nces in cytosolic and e	extracellular c	oncentrations of	
	$Na^+$ and $K^+$				
	<b>C.</b> To transport glycerol of	r urea	_		
	<b>D.</b> To facilitate the movement of water across membranes				
58.	8. How is cholesterol transported in the blood?				
	A. As free cholesterol				
	<b>B.</b> As cholesteryl esters				
	<b>C.</b> As both free cholestero	l and cholesteryl ester	S		
50	<b>D.</b> As cholesterol conjugat	ted with lipoproteins	.1.0		
39.	A. What is the starting material for the citric acid cycle?				
<u> </u>	A. Succinate B. Acetyl-CoA C. Fumarate D. Malate				
60.	what is the net gain of AI $\mathbf{A}$	P molecules during gl	ycolysis ?		
<b>C</b> 1	<b>A.</b> 1 AIP <b>B.</b> 2 AIP <b>C.</b> 3 A	1 P <b>D.</b> 4 AI P	· · · · · · · · · · ·		
01.	The urea cycle occurs man	$\frac{1}{2}$ niy in the liver. How i	s ammonia io	rmed in other	
	tissues transported to the li	iver?		<b>C</b>	
	A. As the amide nitrogen of C. As the amide nitrogen	of aspartate <b>B</b> . As the $\mathbf{B}$	amino group o	of arginine	
$\mathcal{C}$	<b>U</b> hat hav malacula agend	of glutamine $\mathbf{D}$ . As the	a amino group	o of creatine	
02.	what key molecule connect $\mathbf{A}$ Supering to $\mathbf{P}$ A partial Co	$\Delta C$ Eumonate <b>D</b> M	l the TCA cyc.	le?	
62	A. Succillate <b>D.</b> Acetyr-Co Which of the following is	DA C. Fulliarate D. Ma	alate n mitochondri	a that in activates	
03.	which of the following is	a protective enzyme n	n muochondri	a that mactivates	
	reactive oxygen species (R	(US)?	: 1 (C	-1 <b>IV</b>	
	A. NAD-linked denydroge	enase <b>B.</b> Cytochrome	oxidase (Com	plex IV)	
61	What is the presurger for r	use (Complex II) <b>D.</b> So	agid synthesi	nuclase (SOD)	
04.	nantosa phosphata pathwai		aciu synuiesi	s produced by the	
	A Diboso 5 phosphate <b>B</b>	y (FFF)? Clucose 6 phosphote			
	<b>C</b> Pentose phosphates <b>D</b>	Hexose phosphates			
65	How many molecules of C	'O <sub>2</sub> are released durin	a each cycle o	f the citric acid	
05.	cycle?		g caen cycle o	i the entite dela	
	$\mathbf{A} = \mathbf{B} + \mathbf{C} + \mathbf{B} + \mathbf{C}$				
66	Which electron carriers ho	ld most of the ovidati	on anarov dur	ing the citric acid	
00.	which electron carriers no	in most of the oxidati	on energy dur	ing the citile actu	
	A ATD and CTD D EADL	L and NADU			
	<b>A.</b> ALL allo ULL <b>D.</b> FADE <b>C</b> Coenzyme $\Lambda$ and ovalo	12 allu INADA Dacetate <b>D</b> Nucleosida	trinhosnhata	2	
1	C. COEnzyme A and Oxalo	actait <b>D.</b> INUCICOSIU	. urphosphates	5	

	學系別	考試科目	考試日期	時間
	學士後獸醫學系	生物化學	112.04.29	13:30-15:00
67.	Which of the following is	NOT true regarding ic	on channels?	
	A. Neurotoxins only inhibit ion channels to disrupt the nervous system.			
	<b>B.</b> They can be gated by membrane potential or ligands.			
	C. They are important for signaling in neurons and other cells.			
	<b>D.</b> Neurotransmitters can neuron.	activate specific ion cl	hannels in the	postsynaptic
68.	What is the site of photosy	onthesis in algae and p	lants?	
	A. Chloroplasts B. Mitoch	ondria		
	C. Endoplasmic reticulum	<b>D.</b> Golgi apparatus		
69.	What is the final stage of t	he oxidative pathway	for fatty acid	oxidation?
	A. Citric acid cycle B. Gly	ycolysis		
	C. Oxidative phosphoryla	tion <b>D.</b> Gluconeogene	sis	
70.	What is apoptosis?			
	A. Uncontrolled cell divis	ion leading to tumor f	ormation	
	<b>B.</b> A type of mutation in o	ncogenes		
	C. The programmed and c infected cells	controlled cell death of	f unnecessary,	damaged, or
	<b>D.</b> A type of mutation in t	umor suppressor gene	S	
71.	What is the important role	of nicotinamide aden	ine dinucleoti	de (NAD) in
	numerous metabolic pathw	vays?		
	A. Substrate B. Inhibitor (	C. Enzyme <b>D.</b> Coenzy	me	
72.	In which type of tissue is e	electron transfer uncou	upled from AT	P synthesis, leading
	to the dissipation of energy	y as heat?		
	A. Brown adipose tissue of	of newborns <b>B.</b> Muscle	e tissue	
	C. Cardiac tissue D. White	e adipose tissue of adu	ults	
73.	Where does glycolysis occ	cur?		
	A. Cytosol B. Golgi appar	atus C. Nucleus D. M	litochondria	
74.	How NADH enters to mite	ochondria for oxidativ	e phosphoryla	ation?
	A. They diffuse through the	ne inner mitochondrial	l membrane.	
	<b>B.</b> They are moved by the shuttle.	malate-aspartate shut	tle or the glyc	erol 3-phosphate
	C. They are converted to I matrix.	$NAD^+$ in the cytosol a	nd then transp	ported into the
1	<b>D.</b> They are actively trans	ported across the inne	r mitochondri	al membrane.
75.	Which of the following or	ganelles carries out β-	oxidation in a	nimals?
1	A. Mitochondria B. Perox	isomes		
	C. Endoplasmic reticulum	<b>D.</b> Golgi apparatus		

	學系別	考試科目	考試日期	時間	
	學士後獸醫學系	生物化學	112.04.29	13:30-15:00	
76.	76. How does glycogen enter glycolysis?				
	A. Directly as glucose 6-phosphate				
	<b>B.</b> Through direct hydrolysis to form glucose				
	<b>C.</b> Through conversion to fructose 6-phosphate or fructose 1-phosphate				
	<b>D.</b> Through phosphorolytic cleavage to form glucose 1-phosphate and				
	subsequent conversion to glucose 6-phosphate				
77.	How are the urea cycle and	d the citric acid cycle	interconnected	d?	
	<b>A.</b> Both cycles share the s	ame enzymes	_		
	<b>B.</b> The urea cycle is a brar	ich of the citric acid c	ycle		
	C. Both cycles use the sam	ne intermediates	, • ,	. 1	
70	<b>D.</b> The urea cycle and the	citric acid cycle are n	ot interconnec	ted	
/8.	In which organs does gluc	oneogenesis primarily	occur in man	nmals?	
	A. Brain, muscles, and ery	throcytes <b>B.</b> Liver, ki	dney, and sma	all intestine	
70	C. Pancreas, lungs, and sp Which of the following is	neen <b>D.</b> Stomach, gan		O to U O in the	
/9.	which of the following is	responsible for reduct	ng molecular	$O_2$ to $H_2O$ in the	
	respiratory chain of mitoci	10ndr1a?	· 1	· 1 · · · · · · · · · · · · · · · · · ·	
	A. NAD-linked denydroge	enase <b>B.</b> Cytochrome	oxidase (Com	$\frac{1}{2} \frac{1}{2} \frac{1}$	
00	Which of the following m	ise (Complex II) <b>D.</b> St	hind oxygon r	nutase (SOD)	
<u>0</u> 0.	which of the following ind $\mathbf{A} = \mathbf{E} \mathbf{e}^{2+} \mathbf{B} = \mathbf{M} \mathbf{e}^{2+} \mathbf{C} = \mathbf{C} \mathbf{e}^{2+} \mathbf{E}$	None of above	oniu oxygen io	eversiony?	
	A. Fe D. Wig C. Ca L				

## 112 學年度學士後獸醫學系招生筆試科目答案

1. 英文

1. D	21. A	41. B	61. D
2. B	22. A	42. D	62. C
3. A	23. B	43. A	63. B
4. B	24. C	44. A	64. A
5. B	25. A	45. A	65. D
6. D	26. D	46. B	66. B
7. C	27. B	47. A	67. A
8. B	28. B	48. D	68. B
9. C	29. A	49. C	69. C
10. D	30. C	50. D	70. C
11. D	31. B	51. A	71. D
12. A	32. C	52. C	72. B
13. B	33. A	53. B	73. A
14. A	34. D	54. D	74. D
15. B	35. D	55. A	75. A
16. C	36. A	56. D	76. D
17. C	37. C	57. C	77. C
18. D	38. A	58. A	78. B
19. C	39. B	59. D	79. D
20. A	40. C	60. B	80. A

#### 2. 化學(含普通化學、有機化學)

1. B	21. C	41. C	61. C
2. A	22. D	42. B	62. D
3. C	23. D	43. B	63. C
4. C	24. B	44. B	64. C
5. B	25. A	45. B	65. D
6. B	26. D	46. D	66. B
7. D	27. D	47. C	67. A
8. C	28. C	48. A	68. A
9. D	29. B	49. B	69. B
10. D	30. A	50. A	70. B
11. A	31. A	51. A	71. A
12. C	32. B	52. A	72. D
13. C	33. A	53. D	73. A
14. C	34. C	54. C	74. A
15. C	35. B	55. D	75. D
16. A	36. C	56. A	76. C
17. B	37. A	57. B	77. B
18. A	38. A	58. D	78. C
19. B	39. A	59. B	79. C
20. A	40. B	60. C	80. A

# 112 學年度學士後獸醫學系招生筆試科目答案

3. 生物化學

1 B	21 D	41 D	61 C
$\begin{array}{c} 1. \\ 2 \end{array}$	21. D 22 B	42 B	67 C
2. 11 3 B	22. B 23. B	12. D 13. R	62. C
J. D 4 D	23. D	4J. D	0.5. D
4. B	24. B	44. C	04. A
5. B	25. D	45. B	65. B
6. B	26. B	46. B	66. B
7. D	27. A	47. A	67. A
8. D	28. B	48. D	68. A
9. B	29. B	49. A	69. C
10. B	30. D	50. A	70. C
11. A	31. D	51. D	71. D
12. B	32. C	52. A	72. A
13. C	33. B	53. A	73. A
14. C	34. B	54. B	74. B
15. D	35. C	55. C	75. A
16. C	36. D	56. A	76. D
17. D	37. A	57. D	77. C
18. A	38. A	58. D	78. B
19. D	39. C	59. B	79. B
20. D	40. A	60. B	80. A

#### 4. 生物學(含植物學)

1. D	21. B	41. D	61. D
2. A	22. D	42. A	62. D
3. A	23. D	43. B	63. D
4. C	24. C	44. B	64. D
5. B	25. A	45. B	65. C
6. A	26. B	46. C	66. B
7. D	27. C	47. A	67. B
8. B	28. A	48. A	68. D
9. D	29. D	49. D	69. A
10. C	30. A	50. D	70. C
11. D	31. B	51. D	71. A
12. A	32. D	52. D	72. A
13. A	33. C	53. B	73. B
14. D	34. B	54. D	74. A
15. C	35. B	55. B	75. C
16. A	36. B	56. A	76. B
17. B	37. A	57. A	77. D
18. D	38. B	58. B	78. A
19. C	39. B	59. C	79. A
20. D	40. A	60. A	80. B