111 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	111.04.30	13:30-15:00
l.	Histidine has the following	g p K_a values: p $K_1 = 1$.82, $pK_2 = 9.17$	$, pK_{\rm R} = 6.0$
	Give the net charge of hist	idine at $pH = 12$		
	A. 0 B. +1 C. +2 D. -1			
2.	Which amino acid is NOT		-	
	A. Tryptophan B. Tyrosine			
5.	The figure below shows th	-		
	base properties of glycine.			•
	Which key point of the fig	ure where the averag	ge net charge of	glycine is 0?
	10 - 9.60			
		(IV)		
	8			
	pH 6 - <u>5.97</u> (III)			
	2 - 2.34 (11)			
	0			
	0.5 1.0 1.5	5		
	OH ⁻ (equivale A. I B. II C. III D. IV	nts)		
1 .	Referring to above questio	n 3 which key point	of the figure w	here the alvaine
т.	exists as a 50:50 mixture o	• • •	e	•••
	A. I B. II C. III D. IV	1 11310-0112-00011		
5.	Referring to above questio	n 3, which region of	the figure when	e glycine has its
	maximum buffering capaci	ity?	C	
	A. $I \rightarrow II$ B. $I \rightarrow III$ C. $II \rightarrow I$	•		
5.	Which amino acid has two	chirality centers?		
	A. Glycine B. Tyrosine C.			
	Which of the following is a	-	g ribosomes from	n mechanically
	homogenizing <i>E. coli</i> cells		, -	
	A. Edman degradation B.C. Differential centrifugat	•		
8.	What is the pH of a solution		• • •	$0 \times 10^{-4} \text{ mol/L}?$
-	A. 9 B. 10 C. 1 D. 4			

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9.	Which the following aque	ous solution has the lo	west pH?			
	A. 0.1 M lactic acid ($pK_a = 7.86$) B. 0.1 M acetic acid ($pK_a = 4.86$)					
	C. 0.1 M succinic acid (pl	$K_a = 4.19$) D. 0.1 M fo	ormic acid (pK	a = 3.75)		
10.). Which following structural biology method is best suited to obtaining					
	reconstruction of spike (S) protein of SARS-CoV-2 binding with host receptor?					
	A. Circular dichroism, CD B. X-ray crystallography					
	C. Nuclear magnetic reson	nance, NMR D. cryo-	EM			
11.	Which the following mole	cular bonds primary a	affect the mech	nanical properties of		
	α -keratin, such as tensile s	trength and hardness?)			
	A. Disulfide bonds B. Cov	valent bond				
	C. Ionic bond D. van der V	Waals force				
12.	Which the following amin	o acid primary affects	the flexibility	v of proteins?		
	A. Phenylalanine B. Prolin	•				
13.	3. Protein 1, 2, 3, and 4 have a binding site for ligand X, respectively. According to					
	the following dissociation	constants with ligand	X, which prot	tein has the highest		
	affinity for ligand X?					
	A. Protein 1: K_d of 3.0 × 10 ⁻⁷ M B. Protein 2: K_d of 4.0 × 10 ⁻⁸ M					
	C. Protein 3: K_d of 2.0 × 1					
14.	Which of the following pro-			he blood?		
	A. Hemoglobin B. Collage		-			
15.	When a polymer of 18-res	idue forms an α -helix	, how many re	peats would you		
	expect it to be?					
	A. 5 B. 6 C. 9 D. 10		-			
16.	Which of the following mo		?			
1 7	A. Fibrin B. Albumin C. T	• 1	1 1 . 1 .			
Γ/.	What type of inhibitor X is	s this Lineweaver–Bu	rk plot shown	?		
	inhibitor X					
	1					
	No inhibitor					
	1/Vo					
	pp pp pp					
	0 1/[5]					
	A. Competitive inhibition	B. Uncompetitive inh	nibition			
	C. Noncompetitive inhibit	_				
	-					
L						

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 inhibitor of acetylcholinesterase. What type of inhibitors does Sarin belong to? A. Competitive inhibition B. Uncompetitive inhibition C. Noncompetitive inhibition D. Irreversible inhibitors 9. Which following description of the "Michaelis-Menten equation" is correct? A. K_m = [S], when V₀ = V_{max} B. K_m << [S], when V₀ = 1/2 V_{max} C. High values of K_m correspond to low enzyme affinity for substrate D. High value of [S] correspond to high enzyme affinity for substrate 20. Which following enzyme reactions do <u>NOT</u> obey Michaelis–Menten kinetics? A. Double-displacement reactions B. Allosteric regulations C. Sequential reactions D. Ping-pong reactions 21. Which description is <u>NOT</u> correct? A. Allosteric interactions in Aspartate transcarbamoylase (ATCase) are mediated by large changes in quaternary structure. B. Chymotrypsinogen is activated by specific cleavage of a single peptide bond. C. Blood clotting is accomplished by a series of zymogens activation. D. Glycosylation is a highly effective means of regulating the activities of target proteins. 22. Which of the following characteristics describe glycoproteins? A. Exclusively located at the cell surface and in the extracellular matrix. B. Include the heparan sulfate family. C. May contain <i>N</i>-linked glycosidic bonds. D. Sulfated glycosaminoglycan chains can only be covalently linked to a Ser residue. 23. Which of the following carbohydrate is heteropolysaccharides? A. Homopolysaccharide B. Peptidoglycan C. Cellulose D. Glycosaminoglycans 24. Which of the following carbohydrate is networopolysaccharides? A. Starch B. Peptidoglycan C. Cellulose D. Glycosaminoglycans 24. Which of the following carbohydrate is reducing sugar? A. Fructose B. Cellulose C. Starch D. Sucrose 25. Which description of Apurinic (A		學士後獸醫學系	生物化學	111.04.30	13:30-15:00	
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 25. Which of the following carbohydrates is reducing sugar? A. Fructose B. Cellulose C. Starch D. Sucrose 26. Which description of Apurinic (AP) site in DNA is <u>NOT</u> correct? A. Apurinic (AP) site is a kind of spontaneous DNA damage. 	24.					
 25. Which of the following carbohydrates is reducing sugar? A. Fructose B. Cellulose C. Starch D. Sucrose 26. Which description of Apurinic (AP) site in DNA is <u>NOT</u> correct? A. Apurinic (AP) site is a kind of spontaneous DNA damage. 		A. Starch B. Peptidoglyca	n C. Cellulose D. Gly	vcogen		
26. Which description of Apurinic (AP) site in DNA is <u>NOT</u> correct?A. Apurinic (AP) site is a kind of spontaneous DNA damage.	25.	1 01	•	-		
A. Apurinic (AP) site is a kind of spontaneous DNA damage.		A. Fructose B. Cellulose	C. Starch D. Sucrose	0		
	26.	Which description of Apur	rinic (AP) site in DNA	A is <u>NOT</u> corre	ect?	
B Hydrolysis of the N glycosyl hand betyyoon decrysmines and mymine in DNA		A. Apurinic (AP) site is a	kind of spontaneous I	DNA damage.		
B. Hydrolysis of the N-glycosyl bond between deoxyribose and purine in DNA		B. Hydrolysis of the N-gly	ycosyl bond between	deoxyribose a	nd purine in DNA	
creates AP site.		creates AP site.				
C. AP sites can occur as intermediates in base excision repair.				-		
D. AP site is more thermodynamically stabilizing to a DNA molecule than is a			dynamically stabilizir	ng to a DNA m	olecule than is a	
mismatched base pair.		mismatched base pair.				

27. Which step	獸醫學系				
-		生物化學	111.04.30	13:30-15:00	
to the tem	o of the polymer	rase chain reaction (PO	CR) cycle occi	urs the primers bind	
	to the template?				
A. Denatu	ration B. Annea	ling C. Elongation D.	Hybridization	1	
28. Which nuc	8. Which nucleosides below contain both purines?				
	A. A, T B. C, T, U C. C, G D. A, G 9. Which of the following enzymes is <u>NOT</u> required when you clone a foreign DNA				
29. Which of t	he following en	zymes is <u>NOT</u> require	ed when you c	clone a foreign DNA	
fragment i	nto a plasmid?				
A. Restric	tion endonuclea	se B. DNA ligases C.	DNA polyme	rase D. DNA gyrase	
30. Which foll	owing method i	s best suited to identif	fy the protein-	protein interaction?	
A. Yeast t	wo-hybrid analy	sis B. Immunofluores	cence C. qPC	R D. ELISA	
		omega-3 fatty acid?			
A. DHA, 2	$22:6(\Delta^{4,7,10,13,16,19})$	⁹) B. EPA, 20:5 ($\Delta^{5,8,12}$	1,14,17)		
C. ALA, 1	8:3 ($\Delta^{9,12,15}$) D.	GLA, 18:3 ($\Delta^{6,9,12}$)			
32. The meltir	g points of a ser	ries of 18-carbon fatty	v acids are stea	aric acid, 69.6°C;	
oleic acid,	13.4°C; linoleid	c acid, -5°C; and linol	lenic acid, –11	°C. Which of the	
above fatt	v acids has the la	argest number of <i>cis</i> d	ouble bonds?		
A. Stearic	acid B. Oleic ad	cid C. Linoleic acid D	Linolenic ac	id	
33. How does	the food industr	ry increase the melting	g point of lipid	ls containing fatty	
acids?					
•		Catalytic hydrogenation			
•	•	D. Catalytic phosphory	ylation		
	-	ar is amphipathic?			
-		cerole C. Cholesterol		acid	
	e	ormone is derived fron			
-	-	one C. Androgens D.			
	• •	les are surrounded by	a double mem	ibrane?	
Ŭ		loplasmic reticulum			
	ondria D. All of		49		
		tosynthesis is <u>NOT</u> co		. 1 1	
		esis in eukaryotes such	h as green plai	its and green algae	
	hloroplast.	vater is oxidized to pro	duce ovvgen	accompanied by	
	action of NAD ⁺	_	buttee oxygen,	accompanied by	
		thway of sugar produce	ction is cyclic	and is called the	
Krebs	-				
	•	uickly than C3 plants.			
_		ls for protein synthesi			
		D. All of the above			

	學系別	拿士後獸醫学系招 考試科目	考試日期	時間	
	學士後獸醫學系	生物化學	111.04.30	13:30-15:00	
39.	What kind of protein secon				
	A. α -helix B. β -sheet C. β	•			
40.	Which description for lipic				
	A. Lipid bilayers form wh	•		oil.	
	B. Lipids that form bilayer	rs are amphipathic mo	olecules.		
	C. The hydrophilic region	1 1		and the	
	hydrophobic regions bu		the sheet.		
	D. Lipid bilayers close on				
41.	Which of the following dis		th protein mist	tolding?	
	A. Alzheimer's disease B.				
12	C. Mad cow disease D. Al			·	
42.	Which of the following lip		-		
	cholesterol from surroundi	e	or steroidoge	nic organs?	
12	A. VLDL B. LDL C. IDL)T aamaat?		
43.	Which description for fatty A. Fatty acid oxidation oc				
	•			ny tissues	
	B. Fatty acid oxidation is the primary source of energy for many tissues, including the central nervous system and circulating red blood cells.				
	C. Fatty acid oxidation de	•	-		
	D. Fatty acid oxidation is	regulated by metaboli	ites and hormo	ones.	
44.	Which description for the	-			
	A. Cell membrane lipid co	onstituents include pho	ospholipids, g	lycosphingolipids,	
	and cholesterol.		. 1		
	B. Cell membrane protein proteins.	constituents include g	glycoproteins	and lipid-linked	
	C. The constituent lipid an	nd protein molecules a	are held togeth	er by a covalent	
	bond in the membrane.				
	D. Membranes are fluid st	ructures.			
45.	Which of the following do	es <u>NOT</u> cross a cellu	lar membrane	without	
	transporters or channels?				
	A. Na ⁺ B. K ⁺ C. Ca ²⁺ D. A	Il of the above			
46.	Which of the following is		nolecule that c	an activate protein	
	kinase A (PKA) in eukaryo				
	A. Cyclic AMP B. Cyclic	GMP C. Inositol 1,4,	5-trisphosphat	$e(IP_3)$	
17	D. Diacylglycerol (DAG)	tahaligung aan NOT 1			
4/.	Which of the following me $(\mathbf{P}\mathbf{V}\mathbf{A})^2$	elabolisms can <u>NUT</u> l	be regulated by	y protein kinase A	
	(PKA)? A. Enhance lipolysis in ad	inocyte R Enhance o	lucogenesis ir	skeletal musele	
	C. Enhance glycogenolysi		• •		

	學系別	学士後獣醫学 糸招 考試科目	考試日期	時間
	學士後獸醫學系	生物化學	111.04.30	13:30-15:00
48.	Which ions are required for	or the glucose symport	ter transporter	in the intestinal
	epithelium?		1	
	A. Zn^{2+} B. Mg^{2+} C. Ca^{2+} D). Na ⁺		
49.	How many fatty acid mole		lylcholine (PC	c) of plasma
	membrane have?		•	, 1
	A. 1 B. 2 C. 3 D. None of	above		
50.	Which of the following mo	olecule does <u>NOT</u> aff	ect membrane	fluidity?
	A. Sphingomyelin B. Trig			•
51.	Which description for rece	-		
	A. RTKs is a family of pla	sma membrane recep	tors with prote	ein kinase activity.
	B. RTKs transduce extrace		a mechanism	similar to G
	protein-coupled recepto		11 1 0	
	C. RTKs have a ligand-bin	nding domain on the e	extracellular fa	ice of the plasma
	membrane. D. RTKs have an enzyme	active site on the cyto	nlasmic face	
52	Which description for G pr	•	-	s NOT correct?
52.	A. G protein-coupled rece		· · · · ·	
	domains.			
	B. GPCRs act through het	erotrimeric G proteins	5.	
	C. GPCRs are found only	in eukaryotes, includi	ing yeast, choa	anoflagellates, and
	animals.			
	D. GPCRs are involved in	•		
53.	Which receptor of signal-t	ransduction pathways	is involved in	n glucose uptake
	regulation?	r 1.		
	A. Sialic acid receptor B. C. β-Adrenergic receptor 1	_		
54	Which of the following is	-	ate nathway ()	PPP) product in
57.	oxidative nonreversible ph		ate pathway (I	f f f product in
	A. Ribose-5-phosphate B.		\mathbf{D} , \mathbf{CO}_2	
55.	Which one of the following			ssenger in the
	phosphoinositol signaling			0
	A. Calcium ions (Ca^{2+}) B.		sphate (IP ₃)	
	C. Cyclic adenosine mono	· · · ·	- · · ·	rol (DAG)
56.	Which of the following DN	· /		
	A. A-DNA B. B-DNA C. 2			
57.	Which of the following en		mitochondria?	
	A. Succinate dehydrogena			
	C. Cytochrome oxidase D	. All of the above		

	學系別	考試科目	考試日期	時間	
	學士後獸醫學系	生物化學	111.04.30	13:30-15:00	
58.	Which of the following ion	n plays a key role in th	he enzymatic a	activity of	
	ribulose-1,5-bisphosphate	carboxylase-oxygena	se (RuBisCO)	?	
	A. Calcium B. Natrium C.	. Manganese D. Iron			
59.	What is the main place for	the fatty acid β -oxida	ation in cells?		
	A. Cytosol B. Mitochondr	ia C. Endoplasmic ret	ticulum D. Per	roxisome	
60.	Ketone bodies are water-so	oluble molecules that	contain the ke	tone groups	
	produced from fatty acids	by the liver. Which of	f the following	, molecule is <u>NOT</u>	
	produced from fatty acids by the liver. Which of the following molecule is <u>NOT</u> liver-derived ketone bodies?				
	A. Acetoacetate B. Acetic	acid C. Beta-hydroxy	butyrate D. A	cetone	
61.	What is the net gain of AT	P molecules production	on in the lactic	fermentation with	
	the homofermentative proc	cess?			
	A. 30 B. 8 C. 4 D. 2				
62.	Which of the following me	plecules is the final ele	ectron accepto	or in the electron	
	transport chain?				
	A. Nitrogen B. Hydrogen C. H ₂ O D. Oxygen				
63.	3. Which of the following metabolic reactions occurs in the mitochondrial matrix?				
	A. Citric acid cycle B. Gly	•			
	C. Pentose phosphate path		esis		
64.	Which of the following an				
	A. Proline B. Leucine C. C				
65.	Which of the following is		d?		
	A. Histidine B. Leucine C		. 10		
66.	Which of the following is				
	A. Asparagine B. Methion			• • ,• •	
67.	The intermediate compour			-	
(0	A. Succinic acid B. Acetyl	•			
68.	Which of the following is		-	•	
	lipid and amino acid to ent	•	-	• 1 •	
60	A. Succinic acid B. Acetyl	•		1	
09.	Which of the following co	-	•		
70	A. Aspartate B. Ornithine			momentume (T) he	
70.	0. With more of which base-pair content will a DNA melting temperature (T_m) be				
	higher?	Г			
71	A. GC B. AT C. AU D. G.		r agatal Cat	orboyylago activity	
/1.	Which of the following co	enzyme is required to	acetyl COA	Larboxyrase activity	
	in fatty acid synthesis?	Flowin adamina dimus	lastida D D	idaval phasehata	
	A. Folic acid B. Biotin C.	riavin adenine dinuc.	leonde D. Pyri	idoxai prospriate	

學系別	考試科目	考試日期	時間		
學士後獸醫學系	生物化學	111.04.30	13:30-15:00		
72. Which amino acid has an	indole ring?				
A. Proline B. Asparagine	C. Lysine D. Tryptopl	han			
3. During the separation of protein, which method relates to the molecular size of					
the protein?					
A. Immunoprecipitation B. Affinity chromatography					
C. Ion exchange D. Gel fi					
74. Which of the following in	nmunoglobulin plays a	a significant ro	ole in the mucous		
membranes?					
A. IgG B. IgA C. IgM D.	•				
75. In patients who have not b			-		
what type of immunoglob		irst in the body	v after infection?		
A. IgG B. IgA C. IgM D.	e				
76. How many cycles of β -ox	idation are required to	completely p	rocess a saturated		
palmitic acid (C16)?					
A. 7 B. 8 C. 9 D. 18					
77. Which of the following is	a component of succi	nate dehydrog	enase in electron		
transport chain?					
A. Complex I B. Complex	-	-	1 0		
78. What is <u>NOT</u> required for	•	A) synthesis in	numans?		
A. Cysteine B. ATP C. Vi 70 Which of the following is		for writh a size	ng tDNAg in		
79. Which of the following is	primarity responsible	ioi synthesizi	lig trivas ili		
eukaryotes? A. RNA polymerase I B. I	DNA nolymerose II				
C. RNA polymerase III D	- ·	r			
80. Which of the following do			out changing the		
DNA sequence (epigenetic		-p			
A. DNA methylation I B.		RNA)			
C. Histone modification I					
	1				

111 學年度學士後獸醫學系招生筆試科目答案

1. 英文

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

2. 化學(含普通化學、有機化學)

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

111 學年度學士後獸醫學系招生筆試科目答案

3. 生物化學

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

4. 生物學(含植物學)

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