高雄醫學大學 107 學年度學士後醫學系招生考試試題

科目:普通生物學及生化概論 考試時間:100分鐘 說明:一、選擇題用 2B 鉛筆在「答案卡」上作答,修正時應以橡皮擦擦拭,不得使用 修正液(帶),未遵照正確作答方法而致電腦無法判讀者,考生自行負責。 二、試題及答案卡必須繳回,不得攜出試場。 I.【單選題】每題1分,共計30分。答錯1題倒扣0.25分,倒扣至本大題零分為止,未作答,不給分亦不扣分。 1~15 題為普通生物學,16~30 題為生化概論。 are membrane protrusions that facilitate the absorption of nutrients. What is the name of these protrusions and what cytoskeletal element forms their internal skeleton? (A) Microvilli, microtubules (B) Microvilli, actin filaments (C) Microvilli, intermediate filaments (D) Villi, microtubules (E) Villi, actin filaments What causes a differentiating B cell to become committed to producing only one species of antibody molecule? (A) DNA rearrangements in the genome (B) RNA rearrangements in the genome (C) protein rearrangements in the genome (D) DNA rearrangements in the mitochondria (E) RNA rearrangements in the mitochondria 3. Which of the following about neuron is **incorrect**? (A) It is a polarized cell. (B) Peripheral nervous system includes autonomic and somatic nervous systems. (C) The generation of action potential is related to the electrochemical gradient across the plasma membrane. (D) Myelin sheath is a protein-rich substance that surrounds the axon of some neurons, forming an electrically insulating layer. (E) Neurofilaments are intermediate filaments found in neurons. 4. In the life cycle of an angiosperm, which of the following cells or tissues are diploids? (A) generative cells (B) microsporocyte (C) antipodal cells (D) tube cells (E) polar nuclei of the embryo sac The black dots that cover strawberries are actually individual fruits from a flower with multiple carpels. The fleshy and tasty portion of a strawberry derives from the receptacle of the flower. Therefore, a strawberry is ______. (A) both an aggregate fruit and an accessory fruit (B) both a multiple fruit and an accessory fruit (C) both a multiple fruit and an aggregate fruit (D) both a simple fruit and an aggregate fruit (E) both a simple fruit and an accessory fruit 6. During splicing, which major molecular component of the spliceosome catalyzes the excision reaction? (A) protein (B) DNA (C) RNA (D) lipid (E) sugar 7. Which of the following statements regarding the body plans of animal is **correct**? (A) Cnidarian are bilateral symmetry. (B) Nematodes are acoelomate. (C) Platyhelminthes are radial symmetry. (D) Annelids are psudocoelomate. (E) Chordates are deuterostomia. 8. In a phylogenetic tree, a group is composed of some species but not their most recent common ancestor. This is an example of (A) monophyletic group (B) paraphyletic group (C) polyphyletic group (D) polytomy (E) dicotomy

(B) intertidal zone

(D) aphotic zone

9. Bioluminescence is an important strategy for attracting preys in which of the following marine zone?

(A) benthic zone(C) oceanic zone

(E) photic zone

10.	Which of the following descriptions of (A) Sense of smell is generated through them (B) Vision is generated through them (C) Thermoreceptors detect change (D) Nocireceptors detect pain feeling (E) Photoreceptors detect sense of the control of the	igh mechar noreceptors of pressures gs.	noreceptors.	s correct?		
11.	Which statement is incorrect concert(A) Ribosomes in prokaryotic and et(B) Sequences exist in prokaryotic an ancestor.	ıkaryotic ce	ells have two subu	-	ely derive from a common	l
	(C) Initiator tRNA recognizes AUG(D) The 30S and 50S ribosomal subt(E) Polysomes are rich in cells active	units of E. a	coli combine to ge			
12.	Testosterone is synthesized primarily (A) Leydig cells (D) anterior pituitary gland	by the	(B) hypothalamu (E) seminiferous		(C) sperm cells	
13.	Which of the following orders regard 1. cleavage 2. gastrula 3. blastula 4. cortical reaction 5. neurulation 6. acrosomal reaction (A) 132645 (B) 231546	ling mamm	alian embryogene (C) 461523	esis is correct ? (D) 641325	(E) 654132	
14.	Which of the following descriptions of (A) Pituitary gland is derived from m (B) Thymus is derived from mesoder (C) Teeth are derived from mesoder (D) Adrenal cortex is derived from m (E) Adrenal medulla is derived from	nesoderm. rm. n. nesoderm.	, -	n layers is correct ?		
15.	Which of the following about chloroft (A) They are of the appropriate size (B) They contain circular DNA not at (C) They contain their own genome (D) Their ribosomes are more similate. (E) Their membranes have enzymes	to be the deassociated vand producer to those of	escendants of bact with histones. he all proteins they of bacteria than to	eria.	sma membrane of prokary	otes
16.	are commonly referred to, (A) Selenocysteine and pyrrolysine (C) Thymine and uracil (E) β-Alanine and D-alanine	respectivel	(B) Adenine and			
17.	Which of the following sequences is (A) replication origin (ori) (C) antibiotic resistance gene (Amp ^R (E) CMV promoter			ning sites (MCS)		
18.	Which of the following metabolic pa (A) glycolysis (D) pentose phosphate cycle	thways is s	trictly anabolic? (B) gluconeogen (E) β-oxidation ((C) citric acid cy	ycle
19.	Dihydrouracil and pseudouridine are (A) mRNA (B) rRNA	found pred	lominantly in (C) tRNA	(D) Z form DNA	(E) siRNA	
20.	Which oil listed below contains more (A) beef (B) milk	e than 60%	unsaturated fatty (C) coconut	acids? (D) palm	(E) olive	
21.	In order to perform PCR, the following (A) DNA fragment, primers flanking (B) DNA fragment, primers flanking (C) DNA fragment, one primer, dNT (D) DNA fragment, primers flanking (E) none of the above	the region the region Ps, DNA P	of interest, dNTF of interest, dNTF olymerase, DNA	es, ddNTPS, DNA Polym es, DNA Polymerase ligase	nerase	

22.	0 1	of DNA is 5'-CGCTATAO	GCGTTT-3'. Which of th	e following sequences is	s its RNA transcript
	(mRNA)? (A) 3'-CGCTATAGCO (C) 3'-GCGATATCGO (E) 5'-CGCTATAGCO	CAAA-5'		(B) 5'-CGCUAUAGC (D) 5'-UUUCGCUAU	
23.	Gout is caused by (A) purine	over degradation results (B) pyrimidine	in accumulation of uric a (C) fatty acid	cid. (D) glucose	(E) amino acid
24.	•		molar extinction coeffici (C) Gln-His-Cys-Ala	*	
25.	What main compound (A) NADH	is transported from the c (B) NH ₄ ⁺	ytosol to the mitochondri (C) FADH ₂	a via malate-aspartate sl (D) O ₂	huttle? (E) oxaloacetate
26.	What enzyme can gene (A) NO synthase (C) citrate oxidase (E) citrate peroxidase	erate citrulline?	(B) citrate dehydrogena (D) citrulline synthetas		
27.	(A) cancer immunother(B) vesicular transport(C) mitochondrial fusion(D) discovery of nerven	erapy t on and fission	was awarded to Dr. Feng ome editing platform	Zhang for	
28.	What amino acid resid (A) serine	ue is required for the pro (B) proline	tein region to interact wit (C) lysine	th Src homology 3 (SH3 (D) arginine) domain? (E) leucine
29.	Molecular chaperones (A) aggregates	assist proteins in the form (B) 3° structure		(D) 1° structure	(E) none of the above
30.	Supercoiled DNA can (A) catenation	be relaxed by (B) intercalation	(C) nicking one strand	(D) hybridization	(E) denaturation
п. (共計 120 分。答錯 1 題 普通生物學,61~90 題	倒扣 0.5 分,倒扣至本; 為生化概論。	大題零分為止,未作答	,不給分亦不扣分。
	(A) Proton pump is an(B) Transport of sodiu(C) The membrane po(D) Facilitated diffusio(E) The transport of g	im ions and potassium io tential acts as an energy on is a diffusion of solute lucose via glucose transp	ns through sodium-potass source that affects the traces against their gradients. Forter is affected by the tensmitters except	ffic of charged substance mperature.	es across the membrane.
	(A) acetylcholine(D) 3,4-dihydroxypher	nylalanine (DOPA)	(B) creatine(E) glutamic acid		(C) γ-aminobutyrate
33.	(A) Testis is a part of 6(B) T3 and T4 are hor(C) The alpha cells of(D) The heart is an enopressure.	mones derived from tyro pancreas produce glucag docrine organ because th		rial natriuretic peptide in	
34.	 (A) NAD⁺ is oxidized (B) The pH of the mat (C) ATP synthase pum (D) The cytochrome c 	rix is increased. aps protons by active tran	chain phosphorylates AD	Ī	changes occurs?

35.	 Which of the following is a true distinction between cellular respiration and lactate fermentation? (A) NADH is oxidized by the electron transport chain only in respiration. (B) Substrate-level phosphorylation is unique to lactate fermentation. (C) Only respiration oxidized glucose. (D) Respiration, but not lactate fermentation, is a catabolic pathway. (E) NAD⁺ functions as an oxidizing agent only in respiration.
36.	Which of the following about cardiac muscle is correct ? (A) They contract only when stimulated by neurons. (B) They lack an orderly arranged actin and myosin. (C) They lack the striations of skeletal muscle. (D) They have less sacroplasmic reticulum and thus contract more slowly than smooth muscle. (E) They are connected by intercalated discs, through which action potentials spread to all cells in the heart.
37.	Which of the following short-distance transport routes in plants goes through plasmodesmata? (A) symplastic route (B) transmembrane route (C) apoplastic route (D) apoptosis route
38.	In the process of photosynthesis, which of the following is not involved in the creation of H ⁺ gradient thylakoid lumen and stroma that generates ATP? (A) reduction of NADP ⁺ (B) splitting of water in the thylakoid lumen (C) PQ cycle of the electron transport chain and its reaction to cytochrome b6f complex (D) regeneration of RuBP (E) electron transport
39.	X chromosome inactivation is an epigenetic mechanism that silences the majority of genes on one X chromosome. The inactivation appears to involve regions of (A) mutated genes (B) intense transcription (C) hyper-methylated DNA (D) hypo-methylated DNA (E) inverted genes
40.	According to the intermediate disturbance hypothesis, species richness is higher in areas of intermediate levels of disturbance. Why would species richness be lower at low levels of disturbance? (A) A high nutrient level poisons lots of species. (B) Competitive exclusion results in the extinction of species. (C) Ecological niches are less partitioned in places with high levels of disturbance. (D) Lack of disturbance slows down the evolution of new species. (E) Low level of disturbance results in low soil fertility.
41.	Taxol is an anticancer drug extracted from the Pacific yew tree. In animal cells, Taxol disrupts microtubule formation by binding to microtubules and accelerating their assembly from the protein precursor, tubulin. Surprisingly, this stops mitosis. Specifically, Taxol must affect (A) the formation of the mitotic spindle (B) anaphase (C) formation of the centrioles (D) chromatid assembly (E) the S phase of the cell cycle
42.	Which of the following about transposable elements is correct ? (A) occurs only in bacteria (B) occurs only in plants (C) moves genes between homologous regions of DNA (D) scatters genes to a new loci in the genome (E) plays little role in evolution
43.	 The difference between pinocytosis and receptor-mediated endocytosis is that (A) pinocytosis brings only water molecules into the cell, but receptor-mediated endocytosis brings in other molecules as well (B) pinocytosis increases the surface area of the plasma membrane whereas receptor-mediated endocytosis decreases the plasma membrane surface area (C) pinocytosis requires cellular energy, but receptor-mediated endocytosis does not (D) pinocytosis is nonselective in the molecules it brings into the cell, whereas receptor-mediated endocytosis offers more selectivity (E) pinocytosis can concentrate substances from the extracellular fluid, but receptor-mediated endocytosis cannot

44.	How does extracellular glucose inhibit transcr (A) by strengthening the binding of the repres (B) by weakening the binding of the repressor (C) by degrading the <i>lac</i> operon gene (D) by inhibiting RNA polymerase from open (E) by reducing the levels of intracellular cAN	ssor to the operator r to the operator sing the strands of DNA t		n
45.	Which of the following traits do archaeans and 1. composition of the cell wall 2. presence of plasma membrane 3. lack of a nuclear envelope 4. identical rRNA sequences (A) 1 and 2 (B) 1 and 3	d bacteria share? (C) 1 and 4	(D) 2 and 3	(E) 2 and 4
46.	Asbestos is a material that was once used exte asbestos is the development of asbestosis caus phagocytosis, but are not able to degrade it. As (A) rough ER (B) lysosomes	nsively in construction. (sed by the inhalation of as	One risk from working sbestos fibers. Cells w	g in a building that contains will take up asbestos by
47.	Which of the following is more likely an appli (A) estimate the origin time of HIV virus (B) estimate the vertical migration pattern of (C) estimate the rhythmic behaviors of intertic (D) estimate the genetic diversity of a populat (E) estimate the reason for dinosaur extinction	benthic diatoms dal species in the lab ion	molecular clock?	
48.	Stem cell transplants may someday be used to alleviate the symptoms of Parkinson's disease (A) preventing temporal lobe seizures (B) repairing sites of traumatic brain injury (C) replenishing missing ion channels (D) secreting the neurotransmitter dopamine (E) changing in myelination of axons		. Researchers are hop	eful that these cells would
49.	Prezygotic isolating mechanisms act to limit h For sympatric corals that do synchronized spa (A) behavioral isolation (D) gametic isolation		ikely isolation mecha	
50.	How does a noncompetitive inhibitor decrease (A) by binding to the active site of the enzyme (B) by binding to an allosteric site, thus chang (C) by decreasing the free-energy change of the (D) by acting as a coenzyme for the reaction (E) by binding to the substrate, thus changing	e, thus preventing bindinging the shape of the active he reaction catalyzed by	g of the normal substr ve site of the enzyme the enzyme	
51.	Which of the following statements regarding it (A) Incomplete metamorphosis have a pupal statement (B) Metamorphosis from the larval stages to the (C) Insects are analids. (D) Book lung is a special organ in insects. (E) Insects are lophotrochozoa.	stage.	ıpal stage.	
52.	Which of the following correctly describes the production (NPP), autotrophic respiration (Rathe ecosystem (Rt)? (A) NPP = GPP - Rt (B) GPP = NPP - NEP (D) NPP = GPP - Ra (E) GPP = NEP + Rh		on (NEP) and total re	
53.	 Which of the following statements regarding v (A) Chondrichthyans have operculum. (B) Amphibians are amniotes. (C) Marsupials have fully developed placenta (D) Osteichthyans have swim bladders. (E) None of the above. 			

54.	(A) Ghrelin is produce(B) Leptin triggers the	d by small intestine. feelings of hunger. appetite by acting on intite suppressant.	appetite control of anima	al is correct ?	
55.	(A) Frog eggs were en(B) Donor nucleus from(C) Donor nucleus from	ucleated by laser treatments in frog intestine cells can make less differentiated cell the more differentiated cell.	<u>=</u>	veloped into a tadpole.	orrect?
56.	females are ZW while a (A) W linked recessive (B) Z linked recessive	males are ZZ. Which of the mutation will never caumutation will only affected only carry Z chromocarry W chromosome.	the following statements use disease in males. It female offspring.	nines the gender of the off is correct ?	Sspring. Therefore,
57.	(A) The circulatory flu(B) Blood in right ven(C) Sinoatrial node is I(D) Erythropoietin is p	iid in closed circulatory s tricle will first deliver to located in left atrium.			
58.	(A) Amyloid plaques a(B) Additive substance(C) Dopamine can be a(D) Parkinson's patient	are always observed in sc	the dopamine regulation patients. ognize people.		
59.	 (A) The length of thick (B) A motor unit consi (C) Myoglobin binds of (D) Ca²⁺ binds with tro 	ists of multiple motor new exygen tighter than hemo epomyosin to initiate mu	fully muscle contraction urons and muscle fibers. oglobin does.		
60.		ontent is 0.01562 fold as		ge of a fossil. A ¹⁴ C conterphere. The half-life of ¹⁴ C (D) 70000 years	
61.	 (A) K_M measures the s (B) An enzyme with a (C) An enzyme with a (D) The turnover number 	ubstrate concentration at low $K_{\rm M}$ means that it had low $k_{\rm cat}$ means that it had	te of the catalytic process	is 1/2V _{max.} strate.	
62.	(A) HbF has an $\alpha_2\gamma_2$ st (B) HbA has an $\alpha_2\beta_2$ st	tructure. igher affinity for 2,3-BPO e O ₂ affinity of HbA.			
63.	The carbon skeleton pr (A) acetyl-CoA	oduced by transaminatio (B) pyruvate	on of aspartate enters the (C) fumurate	citric acid cycle as (D) oxaloacetate	
64.	5-phosphoribosyl-1-py	rophosphate (PRPP) is a	precursor in the synthes	is of all of the following p	products except
	(A) histidine	(B) tryptophan	(C) arginine 第6頁,共9頁	(D) UMP	(E) AMP

65.	In eukaryotic cells, mRNA modification include (A) splicing out exons and join introns (B) add a cap at 3' end to protect the 3' end (C) add a phosphate group at 5' end to increase (D) remove nucleotides at 3' end before addition (E) remove 3'UU and attach CCA	stability		
66.	What is the appropriate order for oxidation of gl 1.convert pyruvate to acetyl CoA 2.electron-transport chain 3.citric acid cycle 4.oxidative-phosphorylation 5.glycolysis (A) 3→5→1→4→2 (B) 5→1→3→2→4			(E) 4→1→3→5→2
67.	Cooperative binding of a ligand to a protein is a (A) It is usually associated with proteins with m (B) The binding of one ligand affects the affinit (C) The Hill plot results in a hyperbolic curve. (D) It results in a sigmoidal binding curve. (E) Hill coefficient (n _H) is a measure of the deg	nultiple subunits. ies of other unfilled bin		ving statements is false ?
68.	Ubiquitin is a small protein which is covalently (A) ATP-dependent proteases in lysosomes (B) ATP-dependent proteases in proteasomes (C) ATP-dependent proteases in ribosomes (D) ATP-independent proteases in endosomes (E) ATP-independent proteases in peroxisomes		nated for destruction vi	a
69.	What of type reaction promotes the conversion (A) transamination (C) dehydrogenation (E) decarboxylation	of phosphatidylserine to (B) acetylation (D) methylation	phosphatidylethanolan	nine?
70.	What compound does not exist in the glyoxylate (A) citrate (B) α-ketoglutarate	e cycle? (C) isocitrate	(D) malate	(E) oxaloacetate
71.	Which compound is not one-carbon carrier in m (A) tetrahydrobiopterin (C) methyl-tetrahydrofolate (E) S-adenosylmethionine	netabolism? (B) formyl-tetrahydro (D) biotin	folate	
72.	 Which of the following statements regarding yet (A) The goal is to bring together the DNA-bind (B) Gal4 protein has two domains: one that bind to synthesize tRNA from an adjacent gene ((C) A library can be set up to fuse to the Gal4 p (D) The interacting protein can be quickly ident (E) Some false positive results occur, due to the 	ing domain and the actids a specific DNA sequater gene). Trotein DNA-binding dottified by DNA sequenci	vation domain of the ye ence domain, the other a main. In gof the fusion protein	activates RNA polymerase
73.	What amino acid residues in some membrane-as (A) asparagine and lysine (C) serine and tyrosine (E) proline and lysine	ssociated proteins are co (B) cysteine and glyci (D) asparagine and ser	ne	stoyl or farnesyl groups?
74.	What main component in plasma membrane has B, and AB)? (A) caveolin in lipid raft (C) sphingolipid (E) cholesterol	s the oligosaccharide he (B) clathrin in apical s (D) phospholipid	-	human blood types (O, A,
75.	What enzyme is frequently used for the measure (A) glucokinase (C) glucose dehydrogenase (E) glucose oxidase	ement of the concentration (B) glucose epimerase (D) glucose dehydration	,	?

76.	cloning? (A) recombinases and I (B) recombinases and I (C) restriction endonuc (D) restriction endonuc	DNA polymerase α	s	propagating a recombinant	DNA molecule in DNA
77.	level in the blood(A) results from a below (B) inhibits glycogen s	w-normal blood glucose ynthesis in liver and mu s of fatty acids in liver a take by liver	e level	the level of blood glucose ipose tissue	e. An elevated insulin
78.	(A) The glucose residue(B) In bacteria, dextrant(C) Chitin is a linear he	es are linked by $(\beta 1 \rightarrow 4)$ as are made up of $(\alpha 1 \rightarrow 4)$ eteropolysaccharide commer of glucoses with $(\alpha 1 \rightarrow 4)$	olysaccharide is correct ?) glycosidic bonds in cell 4)-linked poly-D-glucose posed of N-acetylglucos 1→4)-linked branches.	lulose. e.	
79.	Which of the following (a) Trp (b) Phe (c) T (A) (a) (c) (e) (C) (b) (c) (e) (E) (a) (d) (e)	_	(B) (a) (b) (c) (D) (b) (d) (e)	c?	
80.	(A) NADH is required(B) Fatty acids synthas	in the biosynthesis of far e I in vertebrates consis e I is not a homodimer in in biosynthesis of fatty	ts of 4 polypeptide chain molecule. acids.		
81.	(B) It contains DNA po(C) It contains 3'→5' e	s derived from <i>E. coli</i> Dolymerase activity. exonuclease activity. s derived from large frag	_	olymerase I.	
82.	 (A) 16 acetyl-CoA mol (B) One acetyl group is (C) In β-oxidation, ATI (D) CO₂ is generated by 	ecules are produced by s removed in one turn of	ate.		
83.	Chartgraff's rules for Da (A) G+C = 39-46% in a (B) A=T and G=C (C) the sense strand is a (D) A=U and G=C (E) the minor groove is	mammals	or groove		
84.	endoplasmic reticulum?			-	y proteins to the
85.	Transcriptional activator (A) enhancers	ors that have variable po (B) operators	sitions and orientations a (C) introns	re called (D) polycistrons	(E) promoters
86.	The peptide QYDG has (A) glutamic acid	a N-terminal	residue. (C) glutamine	(D) aspartic acid	(E) alanine

87.	The reaction below is catalyzed by yeast alcohol dehydrogenase. Which of the following corresponds to X and Y?
	O OH $CH_3CH + X \longrightarrow CH_3CH_2 + Y$ (A) $X = NAD + H^+$ $Y = NADH^+$ (B) $X = NADH + H^+$ $Y = NAD^+$ (C) $X = NADPH + H^+$ $Y = NADP^+$ (D) $X = NAD^+$ $Y = NADH + H^+$ (E) $X = NADH^+$ $Y = NAD + H^+$
	In <i>E. coli</i> , base-pairing between a mRNA's and the 3' end of the 16S rRNA permits the ribosome to select the proper initiation codon. (A) 5' cap (B) Shine–Dalgarno sequence (C) poly(A) tail (D) start codon
89.	Chymotrypsin, a serine protease, preferentially cleaves a peptide bond adjoining a bulky non-polar side chain. This is because chymotrypsin's specificity pocket (A) is mostly filled with large side chains (B) contains a negative charge (C) contains a positive charge (D) contains a sulfhydryl group that forms a disulfide bond with the substrate (E) is lined with small hydrophobic side chains, leaving considerable room in the nonpolar pocket
90	Oseltamiyir (marketed as Tamiflu) has a structure mimicking and thus is a strong inhibitor of neuraminidase of

(B) hyaluronic acid (C) sucrose (D) chondroitin sulfate

(E) lactose

H1N1 influenza virus.

(A) sialic acid

後醫-英文

題號	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
答案	D	D	E	C	C	A	D	В	D	C	В	E	D	В	E	В	В	D	C	Е
題號	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
答案	C	C	Е	D	В	D	C	В	Е	C	В	D	C	C	C	C	A	Е	D	В
題號	41	42	43	44	45	46	47	48	49	50										
答案	D	Е	D	A	Е	C	D	В	A	E										

後醫-物理及化學

題號	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
答案	D	В	C	A	A	E	E	C	D	A	A	A	A	D	C	A	D	C	D	Е
題號	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
答案	В	В	E	D	D	A	C	A	В	C	D	D	D	D	C	E	C	C	В	Е
題號	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
答案	В	E	A	В	В	В	D	A	A	D	В	В	В	A	A	E	D	В	D	C
題號	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
答案	В	A	В	C	C	A	C	A	D	D	A	E	A	В	В	E	C	C	D	Е
題號	81	82	83	84	85	86	87	88	89	90				·						
答案	В	A	В	E	E	В	C	D	A	A										

後醫-普通生物及生化概論

題號	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
答案	В	A	D	В	A	C	Е	C	D	D	D	A	D	D	C	A	Е	В	C	E
題號	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
答案	В	В	A	D	A	A	E	В	В	C	D	В	E	В	A	E	A	D	C	В
題號	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
答案	A	D	D	Е	D	В	A	D	D	D	В	D	D	D	D	A	D	В	C	C
題號	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
答案	В	C	D	C	D	В	C	В	E	В	A	В	В	C	E	C	C	A	В	D
題號	81	82	83	84	85	86	87	88	89	90										
答案	D	В	В	В	A	C	В	В	E	A										