高雄醫學大學九十七學年度學士後醫學系招生考試試題

科目:英文 考試時間: 80 分鐘

說	•	2B 鉛筆在「答案 ,未遵照正確作答	· =		
	二、非選擇題	限黑色或藍色墨力	K之鋼筆、原子筆	或中性筆,在「答	\$案卷」上作答。
	三、試題、答	案卡及答案卷必须	頁繳回,不得攜出	試場。	
		e: Choose the <u>best</u> answe 共5題,答錯一題倒扣	_	_	給分亦不扣分。
1.	No sooner had the supe (A) than the workers be (C) the workers then ha (E) later began the figh	ave begun to fight	(B) than the works had (D) as beginning the wo	0	
2.	That the legal drinking (A) should have	age lowered is (B) should	a hot topic for debate in (C) should be	many states of the US. (D) which should	(E) which should have
3.	(A) neither Ian nor his(B) both Ian and his co(C) not only Ian but als(D) neither Ian nor his	ass for Miss Davidson, the cousins are willing to qui busins are not willing to le so his cousins doesn't war cousins wants to leave the all don't want to leave the	t the room eave the room nt to quit the room e room	by all of the boys,	
4.	(A) Meg almost got 30(B) Meg nearly saved 3(C) approximately 300(D) about 3000 dollars	e's promotion sale last wee 100 dollars off all her purch 3000 dollars for her purch 0 dollars cheaper for Meg being cut from Meg's pur 3000 dollars for all purch	chases nases g's purchases rchases		
5.			·	(B) so as the police wor (D) to prevent being rec	_
e [xpression in each sente 軍選題】毎題1分,共	· 15 題,答錯一題倒扣	0.25 分,倒扣至本大題	零分為止,未作答,不	給分亦不扣分。
6.	All organisms, <u>regardle</u> (A) as a result of	ess of their unique identity (B) considering	have certain physical ch(C) avoiding	naracteristics in common. (D) whatever	(E) in recognition of
7.	Great <u>vigilance</u> is requi (A) courage	red from all of us as this i (B) watchfulness	is an emergent situation. (C) intelligence	(D) energy	(E) excitement
8.	At the back of each eye (A) group	e, nerve fibers <u>bundle</u> toge (B) grow	ether to form optic nerves (C) fit	, which join and then spli (D) branch	t into two optic tracts. (E) settle
9.	I don't have a long wall (A) lies above	k between classes because (B) lies beneath	e the engineering building (C) lies next to	g is adjacent to the chemis (D) lies away from	stry labs. (E) lies between
10.	In order to meet the cha (A) put off	allenges of the new e-com (B) triggered off	merce era, this trading co (C) sent off	ompany <u>launched</u> a new v (D) went off	vebsite last year. (E) got off
11.	The <u>torrential</u> rains that (A) pouring	accompany most hurrica (B) storming	nes represent a third sign (C) drizzling	ificant threat – flooding. (D) unexpected	(E) unforeseen

12.	This rise of female subj previous century. (A) consequence	ectivity and autonomy is (B) impact	the inevitable <u>corollary</u> of (C) collaboration	of the feminist movement (D) development	that started in the (E) circumstance
13.	and reassess their life th	hrough reminiscence of p	ast experiences.	f life review for the elderl	
	(A) renewal	(B) contemplation	(C) recollection	(D) repression	(E) repetition
14.	Regarding the coincider yourself.	nce, the judge expects an	unequivocal explanation,	, without which you'll nev	ver be able to clear
	(A) reasonable	(B) unpardonable	(C) understandable	(D) unintelligible	(E) unambiguous
15.		to a number of contempor	rary literary theories reve	als that some of them are	simply a(n) amalgam of
	earlier premises. (A) culmination	(B) rejoinder	(C) mixture	(D) reiteration	(E) resurgence
16.	1 0	narcotics on children—ms book reading and family		g their ability to think, an	d displacing such
	(A) prohibiting	(B) impeding	(C) expediting	(D) compelling	(E) blurring
17.		ny, the visiting professor in the attack of their enem		ment of insects which have	ve a natural <u>camouflage</u>
	(A) disguise	(B) masquerade	(C) shell	(D) dwelling	(E) semblance
18.	<u> </u>		reloped a passion for gard	lening chiefly as a tempor	ary respite from the
	headaches of routine ho (A) diversion	ousework. (B) escape	(C) change	(D) remedy	(E) relief
19.	I just don't see how it p (A) inevitable	ossible for the kids to kee (B) common	ep in good shape, for suga (C) everywhere	ar is <u>ubiquitous</u> in their di (D) popular	et. (E) high
20.				econd quarter of the twen	tieth century prompted a
	transmutation in the ch	aracter of Western social	•		(E) 1 ·
	(A) metamorphosis	(B) transgression	(C) mobility	(D) interference	(E) dynamics
	Vocabulary and Usage 單選題】每題 1.5 分,	: Choosing the <u>best</u> ansv 共 20 題,答錯一題倒才	wer to complete each ser ロ 0.375 分,倒扣至本大		不給分亦不扣分。
1 21.	Vocabulary and Usage 單選題】每題 1.5 分, Dengue is to human (A) transported A pipe or faucet	: Choosing the <u>best</u> answ 共 20 題,答錯一題倒才 ns by the <i>Aedes aegypti</i> (n (B) transmitted can waste as much as sixt	wer to complete each sen no 0.375 分,倒扣至本大 rarely <i>Aedes albopictus</i>) n (C) transplanted teen hundred liters of wat	ntence. 30 points. 、題零分為止,未作答, mosquito, which feeds du (D) transmuted ter each month.	不給分亦不扣分。 ring the day. (E) transformed
21. 22.	Vocabulary and Usage 單選題】每題 1.5 分, Dengue is to human (A) transported A pipe or faucet (A) stuck	: Choosing the <u>best</u> ansv 共 20 題,答錯一題倒才 ns by the <i>Aedes aegypti</i> (n (B) transmitted can waste as much as sixt (B) working	wer to complete each ser no 0.375 分,倒扣至本大 rarely Aedes albopictus) r (C) transplanted teen hundred liters of wat (C) leaky	ntence. 30 points. 连題零分為止,未作答, mosquito, which feeds du (D) transmuted ter each month. (D) slippery	不給分亦不扣分。 ring the day. (E) transformed (E) stopped
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30.		eative minds, is very high		=	
	(A) Incongruity (B) Ingenuity		(C) Intuition	(D) Integration	(E) Integrity
31.	rustle of a mouth, a sou	eds of feet in the air can so nd to the human ear. (B) inaudible	ee a beetle on the ground (C) unimaginable	, and an owl can hear and (D) unintelligible	home in on the slight (E) unpredictable
	(A) muisunguisnable	(D) maudible	(C) unimaginable	(D) unintenigible	(E) unpredictable
32.	Looking for the missing (A) horse	check was like trying to (B) needle	find a in a hays (C) straw	tack. (D) hair	(E) rake
33.	Boris wishes to join the tools.	international team of	in Egypt to study the rer	mains of ruined buildings.	, ancient tombs and
	(A) archivists	(B) architects	(C) archaeologists	(D) archdeacons	(E) anthropologists
34.	signs and do not the	<u>-</u>		_	•
	(A) stay behind	(B) wander away	(C) stray off	(D) trip over	(E) step on
35.		displaces reading as a for a claims that the amount of (B) convention			
36.	A renowned professor, balive.	pest-selling author and po	pular politician, Richard	McDonald led a(n) o	f lives when he was
	(A) abundance	(B) mystery	(C) blending	(D) myriad	(E) microcosm
37.	With her very positive carts.	omments on my daughter	's performance, wea	a long and friendly conve	rsation about theatrical
	(A) picked up	(B) launched into	(C) probed into	(D) dwelled on	(E) started with
38.	The American stock material (A) unfledged	rket crisis in 1929 led to a (B) unforgivable	a and sustaining me (C) unforgettable	mory in the history of eco (D) unfinished	onomics. (E) unforeseen
39.	To for a free vouc July the 31st.	cher and to enter the prize	e draw, please make sure	that your completed form	reaches our agency by
	(A) certify	(B) nullify	(C) rectify	(D) pacify	(E) qualify
40.	• 1 1	als had been turned down	•	<u> </u>	ld win her love
	(A) by no means	(B) by all means	(C) by any means	(D) in the meantime	(E) beyond his means

IV. Reading Comprehension: Choose the <u>best</u> answer. 30 points.

【單選題】每題 1.5 分, 共 20 題, 答錯一題扣 0.375 分, 倒扣到本大題零分為止, 未作答, 不給分亦不扣分。

"Plutoid" is the new classification that has been sanctioned for the object that was formerly known as the "ninth planet." It is nearly two years since the International Astronomical Union (IAU) stripped Pluto of its former status as a "proper" planet. Now an IAU committee, meeting in Oslo, has suggested that small, nearly spherical objects orbiting beyond Neptune should carry the "plutoid" tag.

As astronomy's official nomenclature organization, the IAU must approve all new names and classifications. Its decision at the 2006 General Assembly to demote Pluto from "planet" to "dwarf planet" caused an international furor. Pluto's relegation was felt necessary because new telescope technologies had begun to reveal far-off objects that rivaled the world in size. Without a new classification, these discoveries raised the prospect that textbooks could soon be talking about 50 or more "planets" in the Solar System. That prospect proved too much for IAU members who took the historic decision to redefine the Solar System. They relegated Pluto to a grouping that includes Ceres (the largest asteroid), and Eris, an object slightly larger than Pluto that orbits even further out from the Sun in an icy region known as the Kuiper Belt.

Recently the IAU further explained the plutoid definition as celestial bodies that "have sufficient mass for their self-gravity to overcome rigid body forces so that they assume a hydrostatic equilibrium (near-spherical) shape, and that have not cleared their orbits of debris. The two known and named plutoids are Pluto and Eris. It is expected that more plutoids will be named as science progresses and new discoveries are made." The plutoids will also need to have a minimum brightness. Ceres will not be considered a plutoid because of its position in the asteroid belt between Mars and Jupiter.

The classification will not placate those incensed by Pluto's demotion. Alan Stern, a former NASA space sciences chief and principal investigator on a mission to Pluto, was scathing in his condemnation of the IAU. "It's just some people in a smoke-filled room who dreamed it up," he told the Associated Press. "Plutoids or haemorrhoids, whatever they call it. This is irrelevant."

41. What will be the most (A) A Star Is Born (C) Non-planet Gets I (E) NASA versus IAU	New Class	he article?	(B) From Pluto (D) The Promo	
42. How many planets are (A) 6	e there in the Solar Sy (B) 7	estem now? (C) 8	(D) 9	(E) 50
43. According to the article (A) IAU thought that (B) IAU was afraid the (C) New telescope tea (D) IAU thought that (E) IAU thought that	Pluto is too big in siz at there would be too chnologies showed the Pluto was not bright	te to be classified as a many planets in the at Pluto was not part enough to be a planet	planet. Solar System. of the Solar System.	
44. According to the article (A) Uranus	le, in addition to Pluto (B) Mars	o the other known plu (C) Ceres	toid is (D) Eris	(E) Venus
45. According to the article (A) The plutoids must (B) The plutoids shou (C) The plutoids need (D) The plutoids shou (E) The plutoids must	t be close to Pluto. Ild be big enough to old to have certain bright Ild be of near-spherical	overcome body forces atness. al shape.		
hours, striving to get good limit their academic succes []. It seemed to m people's prerogative. Trouble begins, hor achievement has potentiall Even more disturbing black students wonder when In his essay "On being at San Jose State Universite "individualism," encourage But, Steele argues, blacks to view themselves consciousness over individualism, Steele says that this that demanded that blacks oppression. So blackness education and poverty. I agree with Steele that inferior have been too in the collective black psychem. This damage is so so These young people view because they generally enverted the property of identify. 46. In the passage above, (A) Frankly, I never the (B) Honestly, I didn't (C) Precisely, I observed.	d grades—were regards so their peers won't e that certain things I wever, when studently horrendous effects of g is the rationale behavior the racial and Middle ty, argues that certain ge identification with a the racial identification as an embattled minulalism. form of black identification present themselves (became virtually synthat a monolithic form nuch entrenched in cube the turf as inaccess wision whites as, if not ying oneself as a viction one sentence is mission ook the "acting white a share Fordham's viewed that many black services and the state of the turf as inaccess with the sentence is mission whites as the sentence is mission white as a viction white a viction white as a viction white a viction white as a viction white a viction white a viction white as a viction white wh	ded as "acting white think they are 'acting valuedhard work, to lower their stands on the black community the stand on the black community the stand on the "acting white stand on the "acting white stand on the "acting white stand or "middle-class" valued American society, ration that emerged durority; to take an adversion of the stand large) as a ractionymous with victing of racial identification of racial identification and the stand large and to the stand large and the stand l	"Fordham further concey white'." initiative, articulateness, of airds in response to peer aity. "accusation. It seems that the cess—is a purely white dottent of Our Character (1990) hes—the work ethic, education the 1960s, and that the right is a single massinization and the character on persists. The ideas of the composition is a single massinization and the character on persists. The ideas of the composition is a white the composition is a white many other reasons) the eople who are mildly internative? It's a white man's we there are try? It's a white man's we have paragraphs. Which of	O), Shelby Steele, a black scholar ation, initiative—by encouraging timate result is integration. still persists, urges middle-class mainstream. It emphasizes ethnicate that full racial equality, an effort swith the common experience of ristics associated with it: lack of the black as a victim and the black om and law not to have damaged the prerogative—the white "turf." ey doubt their own abilities and rested in "keeping blacks down." orld."

47. Like Fordham's research, in general, an ethnographic study may explore the following topics *except* ____? (A) Australian folk medicine

(B) Traditional music in Tibet

(C) higher education in Germany

(D) American slave narratives

(E) Acadian and Creole folklore and mythology

- 48. Which of the following statements can be validated by the passage above? (A) Blackness is synonymous with victimization. (B) Academic achievement is a white prerogative.

(E) Unfortunately, school success was characteristic of Caucasian Americans.

- (C) Ethnic consciousness outweighs individualism.
- (D) Middle-class values encourage segregation.
- (E) Retreat from achievement hampers black community.

- 49. What can be safely concluded about Shelby Steele?
 - (A) He views racial identification as a predictable source of social problem.
 - (B) He traces racial identification among blacks back to the civil-rights movement.
 - (C) He believes that a monolithic form of racial identification is recommendable.
 - (D) He confirms that blacks are largely disadvantaged in mainstream society.
 - (E) He feels strongly hostile to white Americans, who are, mostly, racists.
- 50. What does the author conclude about some black adolescents?
 - (A) They are persistent in their racial identity.
 - (B) They take an adversative stance towards the mainstream.
 - (C) They are mostly low-achievers in academic performance.
 - (D) They view themselves as embattled minority.
 - (E) They believe that success is unattainable.
- 51. What would be the best title for this essay?
 - (A) The Color of Success
 - (C) Keeping Blacks Down
 - (E) Against Acting White

(B) The White Man's Burden

(D) Black is beautiful

As the belief that God directly controlled and influenced human behavior weakened during the nineteenth century, philosophers tried to construct a science of society, or social science. Social scientists rejected the idea that human activities occur at random, and affirmed instead that all human activities reveal observed regularities or patterns. Gradually, social scientists refined such concepts as social class and kinship to explain these patterns.

By the end of the nineteenth century, the quest for a unified social science was giving way to the rise of the social sciences. As knowledge became more technical and specialized, economists, political scientists, sociologists, anthropologists, and psychologists each pursued different avenues of inquiry into social experience. Although social scientists in one field borrowed ideas from other fields, each field tended to develop its own specialized language, or jargon, and distinctive concepts. What began as an all-encompassing effort to identify a single science of society became an enterprise marked by diversity, specialization, and often fragmentation. Today, the usual list of social sciences includes economics, political science, anthropology, psychology, and sociology. In addition, some view history as a social science.

- 52. Which of the following words best describes the nature of social sciences nowadays?
 - (A) diversified
- (B) generalized
- (C) panoramic
- (D) unified
- (E) chaotic
- 53. Which of the following will *not* be included in the curriculum of social sciences?
 - (A) political campaign in Europe

(B) organizational psychology

(C) theory of macroeconomics

(D) computation and corpus linguistics

- (E) cultures of Latin America
- 54. Which statement below is incorrect about today's social scientists?
 - (A) They refute the idea that events occurring in human society are largely accidental.
 - (B) They assert that there are regular patterns in most human activities.
 - (C) They employ the ideas of class and kinship to describe human activities.
 - (D) They usually stay within the scope of their own ideas in their research.
 - (E) They have distinctive concepts and terminologies for their own disciplines.
- 55. What can we infer from the passage?
 - (A) People in the past tended to be faltering in their religious faith.
 - (B) There used to be an attempt to search for a single unified social science.
 - (C) Social science has branched out widely since it first started in the nineteenth century.
 - (D) Human societies were dominated by a supreme being in ancient times.
 - (E) People no longer believe in God as knowledge became more specialized.

Given the spate of Jane Austen adaptations, one could be forgiven for anticipating diminishing returns from *Mansfield Park*, a novel that is widely viewed as the author's least satisfying and most intractably moralistic work.

But that would be to reckon without the contribution of Canadian director Patricia Rozema who, disdaining a purist approach, offers some smart and suggestive variations on the usual Regency rituals. Rozema's previous features have all dealt with meek, repressed female protagonists who are initiated into new social and cultural worlds, before attaining self-sufficiency. In this respect, Austen's Fanny, who arrives at Mansfield Park a timid and socially unsure young woman only to become an indispensable member of the household, would seem to be another variant on Rozema's heroines.

Yet the Fanny of Rozema's film is resolutely all the things the Fanny of the novel is not: vivacious, artistic, even sexy—a self-confessed "wild beast." This Fanny is, in fact, something of a hybrid of Austen's heroine and the novelist herself. In Fanny, Rozema creates a screen heroine we can root for, and a film that stands alongside the rest of her oeuvre as a paean to female artistic and romantic independence. Austen's Fanny, as the unimpeachable repository of older, High Tory values, must strike modern sensibilities as something of a prig. Rozema's heroine, on the other hand, is a modern woman oppressed by an antiquated patriarchal society.

To throw this theme into sharper relief, Rozema has chosen to make the slavery issue explicit. Rozema's point is that Mansfield Park, and the amorous escapades of its wealthy inhabitants, are founded on and sustained by this debased form of exploitation. This is certainly an intriguing opening-out of the novel, but in doing so the film appropriates the moral high ground in a way that further distances it from the delicacy and ambiguity of Austen's insights.

56.	What is the major point of this article?
	(A) Austen's novels have often been adapted into films.
	(B) Austen's protagonist in Mansfield Park is a carrier of traditional patriarchal values.
	(C) Rozema's film is completely different from Austen's original novel.
	(D) Rozema's Fanny is vivacious.

(E) Rozema has brought up the issue of slavery in her film.

57. The author claims that "Rozema creates a screen heroine we can root for." Here "root for" is closest in meaning to _ (A) apply force to (B) antipathetic to (C) rein in (D) take sides with (E) get to the root

58. This article would be <u>most likely</u> to be read in which of the following courses?

(A) history (B) sociology (C) psychology (E) astrology (D) literature

59. It can be inferred from the first paragraph of the article that _

- (A) we don't need any more of the film adaptations of Austen's novels
- (B) the author did not expect that there could be a good adaptation of Mansfield Park
- (C) it is not easy to produce a film version of Mansfield Park
- (D) the author is extremely interested in Mansfield Park
- (E) the author agrees on the moral position of Mansfield Park

60. The article claims that Rozema has chosen to make the issue of slavery explicit because

- (A) she really cares about the history of slavery
- (B) she thinks that Austen's Fanny is a prig
- (C) she thinks that the issue of slavery is antiquated
- (D) she wants to highlight how Fanny suffers from patriarchal oppression
- (E) she believes that the issue of slavery provides a sharp contrast to Fanny's life in Mansfield Park

V. Writing: Write an essay in which you argue for or against the following statement (in 200 words). 20 points.

As a general rule, professors who have better achievements in research in their academic field usually teach better as well.

You should use your own ideas, knowledge, reasoning, and experience and support your arguments with examples.

高雄醫學大學九十七學年度學士後醫學系招生考試試題

科目:普通生物學

考試時間:80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,切勿使用修 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。

阳分。

	二、試題及答案卡必須繳回,	不得攜出試場。		
Ι.	【單選題】1-50題,每題1分,共計50分。答	錯 1 題倒扣 0.25 分,每	刘和至本大題零分為止	,未作答時,不給分亦不扣
1.	What type of process can produce coloration dif (A) balancing selection. (D) sexual selection.	ferences between a roost (B) directional selection (E) stabilizing selection	n.	pecies? (C) disruptive selection.
2.	The primary cause for the decline in number of s(A) pollution. (D) introduced species.	sharks and whales: (B) habitat loss. (E) over harvesting.		(C) habitat fragmentation.
3.	Physiological ecologists study (A) nutrient cycling and energy flow through eco (B) exchanges of materials, energy, and organism (C) physiological and anatomical mechanisms be environment. (D) physiological and anatomical mechanisms be (E) None of the choices are correct.	ns between communities y which organisms deal v	with variation in their ph	•
4.	In many species, the females can reproduce by the (A) defense.(C) to assist in rearing of the offspring.(E) to ensure genetic diversity.	he process of parthenoge		mber of offspring produced.
5.	A group of subpopulations living in spatially iso (A) micropopulation. (B) megapopulation.	plated patches connected (C) isopopulation.	by exchange of individual (D) allopopulation.	als among patches is called a (E) metapopulation.
6.	The acidity of the stomach contents triggers the (A) histones. (D) pepsin.	small intestine to secrete (B) secretin. (E) cholecystokinin, or		(C) TSH.
7.	In which blood vessel is glucose concentration by (A) coronary arteries. (C) hepatic vein, which drains the liver. (E) pulmonary veins.	ikely to vary the most?	(B) abdominal artery.(D) hepatic portal ves	sel.
8.	Which of the following is an example of counter (A) The flow of water across the gills of a fish a (B) The flow of air within the primary bronchi of (C) The flow of blood in the dorsal vessel of an (D) The flow of fluid out of the arterial end of a (E) The flow of water across the skin of a frog a	nd that of blood within the of a human and that of blood insect and that of air with capillary and that of fluid	ood within the pulmonar nin its tracheae. d back into the venous e	
9.	What advantage does internal fertilization have (A) Usually a smaller number of genes are present (B) Usually many offspring are produced, ensuring (C) The time and energy devoted to reproduction (D) The increased survival rate results in rapid particles. The smaller number of offspring often received.	ent, which promotes geneing survival of the specien is decreased. oppulation increases.	etic stability. es.	

(A) The muscle fiber resting membrane potential.

(C) The initiation of an action potential.

(E) Muscle fatigue.

10. Which function associated with muscle would be most directly affected by low levels of calcium?

第 1 頁,共 7 頁【背面有試題】

(B) Muscle contraction.

(D) ATP hydrolysis.

11.	Phylogenetic trees are best described as (A) true and inerrant statements about evolutionary relationships. (B) the most accurate representations possible of genetic relationships among taxa. (C) theories of evolution. (D) hypothetical portrayals of evolutionary relationships. (E) the closest things to absolute certainty that modern systematics can produce.	
12.	Estimates of the number of species present in a community (A) are not affected by the sampling effort devoted to estimation. (B) usually require only limited effort by ecologists. (C) can usually be made more easily by sampling only a single indicator taxon. (D) are all that is necessary to calculate species diversity. (E) must, to be useful, be based on standardized sampling techniques.	
13.	A major perturbation of the carbon cycle by human activity is associated with (A) release of carbon from carbonate rocks. (B) release of carbon from fossil fuel deposits. (C) removal of carbon from the atmosphere in the industrial production of fertilizers. (D) accelerated removal of carbon from the atmosphere by forests. (E) respiratory production of CO ₂ by the large human population.	
14.	Which statement about changing ecosystem properties during succession is FALSE ? (A) Biomass increases. (B) Soil depths decrease. (C) Primary production increases. (D) Community respiration increases. (E) Stream spiraling lengths decrease.	
15.	The nuclear genomes of eukaryotes are composed of different categories of sequences. Repetitive sequences are one type of categories. Which of the following is an example of highly repetitive sequences? (A) Histone gene cluster. (B) Ribosomal RNA genes. (C) Homologous genes. (D) Alu elements. (E) Multigene families.	the
16.	If the genes of a cell's spliceosomes were mutated so the spliceosomes no longer action normally. Which of the following we occur? (A) A functional protein would be produced. (B) Transcription would stop. (C) A primary transcript would not be produced. (E) Intron(s) would stay in the mature mRNA.	uld
17.	If the homeotic genes are mutated and cannot be expressed in an orchid during flower development. What would be consequence? (A) The orchid will not develop cotyledons. (B) The orchid will die. (C) The orchid will become dwarf. (D) The orchid will develop flowers instead of leaves. (E) The orchid will develop leaves instead of flowers.	the
18.	Adenylyl cyclase is to cAMP as is to AMP. (A) protein kinase C (B) phospholipase C (C) phosphodiesterase (D) phosphatase (E) Ras	
19.	For cloning of genomic DNA sequences, yeast artificial chromosome (YAC) and bacterial artificial chromosome (BAC) are popular cloning vector systems. Which of the following is NOT correct? (A) A BAC would be circular and a YAC would be linear. (B) A YAC would have telomeres and a BAC would not. (C) A YAC would have a centromere and a BAC would not. (D) A YAC would be bound to histones in the cell and a BAC would not. (E) A BAC would contain a much larger DNA insert than a YAC.	:wo
20.	Which of the following processes does NOT occur in the eukaryotic nucleus? (A) RNA splicing. (B) RNA polyadenylation. (C) DNA synthesis. (D) RNA capping. (E) Production of charged tRNAs.	
21.	Which of the following is true of chromatin? (A) Heterochromatin has more acetyl groups on the histones. (B) Heterochromatin has fewer methyl groups on the DNA. (C) Active genes are not bound by nucleosomes. (D) Sequence-specific DNA binding proteins can only activate transcription. (E) The chromatin structure on a particular gene may be different in different cells.	

22.	In <i>E. coli</i> , biosynthesis of tryptophan can be repressed. The repressor pr (A) is activated by the binding of tryptophan. (B) is inactivated by the binding of tryptophan. (C) is not affected by tryptophan. (D) is activated by the binding of free tRNA. (E) is only synthesized in the presence of tryptophan.	rotein of the trp operon	
23.	The major lipids found in membranes are (A) triacylglycerols and cholesterol. (B) cholesterol and sphingomyelin. (C) phospholipids, glycolipids, and cholesterol. (D) phospholipids and free fatty acids. (E) cholesterol, inositol, and glycolipids.		
24.	During glycolysis NADH is produced in the cytosol. Under aerobic con (A) It accumulates in the cytosol. (B) It diffuses into the mitochondria. (C) It transfers its reducing equivalents directly to NADP ⁺ . (D) The reducing equivalents are transferred by a shuttle system to the ref. (E) It is used to reduce glucose to sorbitol.		
25.	Which of the following is NOT a post-translational modification? (A) Phosphorylation. (B) Glycosylation. (C) Acetylation.	(D) Methylation.	(E) Ubiquitination.
26.	Which one of the following components is NOT necessary in an recombinant DNA?	expression plasmid to be	e useful in the construction of
	 (A) A multiple cloning site. (C) A promoter and a terminator. (E) A coding sequence that is for antibiotic resistance. 	(B) A tag coding seque (D) Multiple cloning si	
27.	Inheritance of phenotype sometimes does not directly involving the n inheritance (A) only refers to genomic imprinting. (C) only effects male offspring. (E) can result in the expression of different alleles in different generation	(B) only effects female (D) only refers to X ina	offspring.
28.	Which of the following is a possible application of tandem mass spectro (A) Cell-specific gene expression. (C) Elucidation of metabolic pathways. (E) Determination of the amino acid sequence of a peptide.	ometry? (B) Gene regulation. (D) Tumor profiling.	
29.	Which of the following is NOT correct regarding homeotic genes? (A) Homeotic genes encode transcription factors. (B) Homeotic genes are the only genes that contain the homeobox. (C) Homeotic genes are found in clusters called complexes. (D) The proteins encoded by homeotic genes contain DNA-binding dom (E) Homeotic genes activate other developmental genes.	nain.	
30.	Ribosomes attached to rough ER are the site for synthesis of many type is typically used for nascent protein insertion into the mammalian ER m (A) Pretranslational. (B) Cotranslational. (C) Post-translational	nembrane?	nich of the following mechanism (E) All of the above.
31.	MPF is a cyclin-Cdk complex that was discovered first in <i>Xenopus</i> e following is NOT its characteristic? (A) Fluctuation of the cyclin concentration is the same as MPF activity. (B) The peak of the MPF activity is G ₂ phase. (C) The peak of the MPF activity is M phase. (D) The breakdown of the MPF occurs abruptly during M phase. (E) The activity of the MPF promotes mitosis by phosphorylating various		during cell cycle. Which of the
32.	Which of the following human DNA polymerases is responsible for rep (A) Alpha. (B) Beta. (C) Gamma.	licating the mitochondrial (D) Delta.	DNA? (E) Theta.

33.	Which one is the correct sequence of protein system. An aminoacyl-tRNA binds to the A site 2. A peptide bond forms between the new amino 3. tRNA leves the P site, and the P site remains 4. A small ribosomal subunit binds with mRNA 5. tRNA translocates to the P site	o acid and a polypeptide o vacant		
	(A) 5,4,3,2,1 (B) 2,4,5,1,3	(C) 4,1,2,5,3	(D) 4,1,3,2,5	(E) 1,3,2,4,5
34.	Which one is correct for the description of trans (A) It occurs only in bacteria. (B) Some transposons do jump from one genom (C) It plays little or no role in evolution. (D) Few can move to many alternative locations (E) None of the above.	ne location to another, in v	what is called replicative t	ransposition.
35.	Proto-oncogenes can change into oncogenes that (A) <i>p53</i> gene and <i>ras</i> gene belong to one of proto(C) Cells produce proto-oncogenes as they age. (E) None of the above.	to-oncogenes.		acteristic of proto-oncogenes? the normal cellular genes.
36.	Which one of modifications is likely to alter the (A) Altering the charges of the DNA fragment. (B) Increasing or decreasing the length of the D (C) Increasing the concentration of a gel. (D) Methylating the cytosine base within the DI (E) All of the above.	NA fragment.	gment moves through a ge	el during electrophoresis?
37.	Proteomics is a new kind of challenge because (A) the number of proteins in humans probably (B) a cell's proteins differ with cell type. (C) proteins are extremely varied in structure an (D) some proteins can not be easily analyzed du (E) All of the above.	nd chemical properties.		
38.	Which of the following is considered an intrinsi (A) Gametic incompatibility. (D) Timing of courtship display.	(B) Sterile offspring. (E) All of the above.		(C) Ecological isolation.
39.	If organisms A, B, C belong to the same phylur to different orders, which one of pairs of organisms (A) A and B (B) C and F			_
40.	Which one of the statements in the fact that som (A) They recycle nutrients that are linked to dea (B) They form mycoses on plants. (C) They contribute to the initial stages of soil f (D) They may harbor photosynthetic partners th (E) None of the above.	ormation from rock.	C	
41.	Which one of pairs is matched correctly for the (A) Ectoderm-muscle. (C) Endoderm-internal linings of digestive tract (E) Ectoderm-internal linings of liver and lungs		nnimals evolve? (B) Mesoderm-outer co (D) Mesoderm-nervous	•
42.	A plant with high levels of tolerance to heavy application of this plant is an example of (A) bioremediation. (C) helping locate suitable sites fro toxic waste (E) None of the above.		(B) nitrogen fixation.	ential profitable areas. Such an sion of soil in arid lands.
43.	Why is nitrogen fixation needed for the growth (A) Nitrogen fixers are sometimes symbiotic with (B) Nitrogen fixation can only be done by certain (C) Nitrogen fixation can produce metabolic end (D) Fixed nitrogen is a limiting factor for plant (E) Nitrogen-fixing capacity is varied in many of	ith legumes. in prokaryotes. ergy for plants' growth. growth.		

- 44. Which one is true of micronutrients in plants?
 - (A) Overdoses of them can not be toxic.
 - (B) They generally help in catalytic functions in the plants.
 - (C) They are not required for a plant to grow from seed.
 - (D) They are essential elements of small size and molecular weight.
 - (E) They are the elements required in relatively big amounts.
- 45. How might a plant respond to cold stress **EXCEPT**
 - (A) an alteration of membrane lipids.
 - (B) the production of a specific solute "plant antifreeze" that reduces water loss.
 - (C) excluding ice crystals from the interior walls.
 - (D) converting of the fluid mosaic cell membrane to a solid mosaic one.
 - (E) increasing the proportion of unsaturated fatty aid in the membranes.
- 46. Which one of the statements is **FALSE** for digestion and absorption of fat?
 - (A) The requirement of emulsification.
 - (B) The absorption of fat in the stomach.
 - (C) The entrance of lymphatic system of the absorbed fat.
 - (D) The hydrolysis of fat by lipase.
 - (E) None of the above.
- 47. The function of plasma proteins is **NOT** related to which one of the following?
 - (A) Oxygen transport.

(B) Immune responses.

(C) Transport of water-insoluble lipids.

(D) Maintenance of blood osmotic pressure.

- (E) Blood clotting.
- 48. Which statement about the complement is true?
 - (A) These proteins are involved in innate immunity only.
 - (B) These proteins can be induced after the invasion of pathogens into the humans.
 - (C) These proteins can only defense against the bacteria's infection.
 - (D) These proteins are selectively antimicrobial proteins.
 - (E) None of the above.
- 49. Melatonin can participate in which one of the following items?

(A) Skin pigmentation.

(B) Monitoring day length.

(C) Biological rhythms.

(D) Reproduction.

(E) All of the above.

50. Based on the gene and protein sequences that follow, what type of mutation-polypeptide effect has occurred?

Normal gene: ATGGCCGGCCCGAAAGAGACC Mutated gene: ATGGCCGGCACCGAAAGAGACC Normal protein: Met-Ala-Gly-Pro-Lys-Glu-Thr Mutated protein: Met-Ala-Gly-Thr-Glu-Arg-Asp

(A) Base addition-silent.

(B) Base addition-none.

(C) Base addition-missense.

(D) Base addition-nonsense. (E) Base addition-synonymous.

Ⅱ.【單選題】51-75 題,每題 2 分,共計 50 分。答錯 1 題倒扣 0.5 分,倒扣至本大題零分為止,未作答時,不給分亦不扣分。

- 51. What distinguishes a coelomate animal from a pseudocoelomate animal is that coelomates?
 - (A) have a body cavity completely lined by mesodermal tissue, whereas pseudocoelomates do not.
 - (B) have a complete digestive system with mouth and anus, whereas pseudocoelomates have a digestive tract with only one opening.
 - (C) have a gut that lacks suspension within the body cavity, whereas pseudocoelomates have mesenteries that hold the digestive system in place.
 - (D) contain tissues derived from mesoderm, whereas pseudocoelomates have no such tissue.
 - (E) have a body cavity, whereas pseudocoelomates have a solid body.
- 52. The pathway leading to the perception of sound begins with the hair cells of the organ of Corti,
 - (A) which rests on the tympanic membrane, coming in contact with the tectorial membrane.
 - (B) which rests on the tectorial membrane, coming in contact with the basilar membrane.
 - (C) which rests on the basilar membrane, coming in contact with the tectorial membrane.
 - (D) which comes in contact with the tectorial membrane as a result of fluid waves in the cochlea causing vibrations in the round window.
 - (E) which stimulates the tectorial membrane neurons leading to the auditory section of the brain.

53.	 A drug might act as a stimulant of the somatic nervous system if it (A) increases the sensitivity of the postsynaptic membrane to acetylcholine. (B) increases the release of substances that cause the hyperpolarization of the neurons. (C) stimulates the activity of acetylcholinesterase in the synaptic cleft. (D) makes the membrane permanently impermeable to sodium. (E) increases the sensitivity of the presynaptic membrane to acetylcholine. 					
54.	(B) Clumped distribution(C) Regular distribution(D) Large scale distribution	n: aggressive interaction. n: attraction to a common	n source. nental changes.			
55.	(A) Smaller sample size	can be used for DNA an er a period of time is post organism.	alysis.	nalysis when investigating	g genetic variations?	
56.	Which of the following(A) Estuary.(D) Tropical rain forest.	ecosystems has the highe	est net primary production (B) Swamp and marsh. (E) Temperate deciduou		(C) Algal beds and reefs.	
57.	The frequency of antibio (A) balancing selection. (D) sexual selection.	· · · · · · · · · · · · · · · · · · ·			(C) directional selection.	
58.	What is the BLAST probioinformatics? (A) It is the tool to find (B) It is the tool to figure (C) It is the tool to trans. (D) It is the tool to align.	rogram in NCBI which out ESTs (expressed seque out the protein-protein late the coding sequence.	has been described by uence tags). interaction.		ous volumes of biological data. single most important tool in	
59.	Which of the following 1. endonucleases (A) 1.	enzyme(s) is/are involved 2. DNA ligase (B) 1 and 3.	d in the human nucleotide 3. DNA polymerase (C) 2 and 4.	e excision repair of UV-ir 4. photoreactivating enz (D) 1, 2 and 3.	nduced pyrimidine dimers? cyme (DNA photolyase) (E) All of them.	
60.	(A) The regulatory sequence(B) RNA Pol I is respon(C) An active Pol I initial	ences include a core elensible for synthesizing tRlation complex contains masible for synthesizing rR	nent and an upstream eler NAs and 5S-rRNA. nulti-protein complexes a		?	
61.	(B) MicroRNAs regulate(C) MicroRNAs regulate(D) MicroRNAs usually	nd in eukaryotes includir e gene expression by deg	ng animals and plants. Tradation of specific mRN Islational inhibition of specific of gene expression.			
62.	(A) four-ring structure.(B) a carboxylic acid gro(C) contain asymmetric	oup. structure. a chain derived from the a		e following common feat	cures EXCEPT	
63.	- · · · · · · · · · · · · · · · · · · ·		_	_	sis guarantees that each haploid as every other haploid germ cell (E) A, B and C.	
	(21) Recombination.	(D) Reassortment.	(C) Dupiteation.	(D) It and D.	(L) A, D and C.	

64.	Which of the following(A) It is a prokaryote.(D) It infects the humar	statements is true of <i>Tri</i> a gastrointestinal tract.	ichomonas vaginalis? (B) It lacks true mitoch (E) It has cilia.	ondria.	(C) It has mitosomes.
65.	2. is usually dependent	measuring the increase on temperature and pH. e concentrations, become	in product concentration es zero-order with respect (C) 2 and 4.		(E) All of them.
66.	(B) A genomic library c(C) Plasmids can be use	must be performed with a contains only coding sequently the cloning vector for	a restriction enzyme, a Di	S.	se transcriptase.
67.	The ostrich and the emexample of (A) sympatric speciatio (D) adaptive evolution.	•	(B) divergent evolution (E) None of the above.	1.	very closely related. This is an (C) exaptation.
68.	(B) They must not adap (C) Based on DNA anal	solution are nearly 30 % of to waters with tempera	salt. atures above the boiling pomore closely related to ba		tes.
69.	(B) Chlamydias-extrace(C) Spirochetes-helical(D) Gram-positive bacte	erse gram-positive bacter ellular parasites. heterotrophs.	ria. vhose endotoxins are com	ponents of their memb	orane.
70.	Lichens sometimes repr (A) soredia. (D) conidophores.	roduce asexually using	(B) ascocarps.(E) aseptate fugal hyph	aae.	(C) basidiocarps.
71.	(A) Endomycorrhizae b(B) Ectomycorrhizae ar	out not ectomycorrhizae are found in about 90% of	form a dense sheath over	the surface of the root	
72.	Auxin can be functioned (A) herbicides. (C) formation of advent (E) cell elongation.			(B) the detection of (D) phototropism.	photoperiod.
73.	What does the infected (A) Phytoalexins.	plant produce in respons (B) Phytochrome.	se to the attacking of a pat (C) Statoliths.	thogenic fungus? (D) Antisense RNA	. (E) None of the above.
74.	 It is estimated that humans can produce over 1.5 million different types of antibodies. Which of the following statements regarding this extraordinary variation is correct? (A) V and J domains of antibody light chains are randomly joined. (B) Random segments of DNA can be removed from antibody genes. (C) V and J domains of antibody heavy chains are randomly joined. (D) Cytosines in the variable regions of antibody genes can be converted to uracils via hypermutation. (E) All of the above. 				
75.		lele) is dominant to whi y of the alleles are for wh (B) 0.16 or 16%.		(D) 0.8 or 80%.	Flowers (bb) are at a frequency (E) 0.96 or 96%.

高雄醫學大學九十七學年度學士後醫學系招生考試試題

考試時間: 80 分鐘 科目:有機化學

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,切勿使用修 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. Choose one correct answer for the following questions

【單選題】每題1分,共計60分,答錯一題倒扣0.25分,倒扣至本大題零分為止,未作答,不給分亦不扣分。

- 1. Which family of compounds has the lowest pKa value
 - (A) alkane
- (B) alkene
- (C) alkyne
- (D) amine
- (E) alcohol
- 2. Claisen rearrangement of allyl phenyl ether to o-allylphenol is a sigmatropic rearrangement. This rearrangement is a [x, y] shift and proceeds under what condition.
 - (A) [1, 3]; thermal
- (B) [1,3]; hv
- (C) [1,7]; hv
- (D) [3,3]; thermal
- (E) [3, 5]; hv

3. Which of the following phenols is the most acidic?











- 4. Which compound is a free-radical initiator?
 - (A) ethyl benzoate

(B) isopropyl benzoate

(C) n-propyl benzoate

(D) methyl benzoate

- (E) azobisisobutyronitrile (AIBN)
- 5. What product will the following reaction give?

$$CH_3CH_2$$
— C — OCH_3 $(1) 2CH_3CH_2MgBr$ \rightarrow product $(2) H_2O, H^+$

- (A) 3-methyl-3-pentanol (B) 3-ethyl-3-pentanol (C) 3-pentanone
- (D) ethyl propanoate
- (E) propanoic acid

- 6. Which one of the following compounds is a fatty acid?

- (A) CH₃(CH₂)₉COOH (B) CH₃(CH₂)₁₁COOH (C) CH₃(CH₂)₁₃COOH (D) CH₃(CH₂)₁₅COOH (E) CH₃(CH₂)₁₆COOH
- 7. Which of the molecules below can hydrogen bond to another of the same compound?
- (A) CH₃CH₂OCH₂CH₃ (B) CH₃CH₂COOCH₃ (C) (CH₃CH₂)₂CHOH (D) (CH₃CH₂)₃N
- (E) all of the above
- 8. Which of the following compounds has the **highest** heat of combustion **per CH₂ group?**
 - (A) cyclopropane

(B) cyclobutane

(C) cyclopentane

- (D) cyclohexane
- (E) all have equal $\Delta H_{combustion}$
- 9. What is the major product of the following reaction?

$$\longrightarrow$$
 + Br₂ $\xrightarrow{\text{light}}$

- (E) no reaction occurs

- 10. Which of the following solvents could be described as polar and protic?
 - (A) ethanol
- (B) acetonitrile
- (C) dimethylformamide (D) tetrahydrofuran
- (E) diethyl ether

11	To	which	side	(if anv)	would	the f	followin	g eguil	librium	lie?
11.	. 10	WILL	Siuc	(II ally)	Would	tile i	OHOWH	s cqui	iioiiuiii	110:

(A) to the left

(B) to the right

- (C) equally to the right and left
- (D) there is no way to tell
- (E) only S_N2 , S_N1 and E2 reactions are possible

12. Which of the haloalkanes below would you expect to most rapidly undergo the reaction shown?

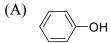
$$R-X \xrightarrow{H_2O} R-OH + H-X$$

(A) CH₃CH₂Br

- (C) (CH₃)₃CBr
- (D) $(CH_3)_2CHBr$
- (E) (CH₃) ₃CCH₂Br
- 13. A mixture of oct-1-yne, oct-2-yne, and oct-3-yne was hydrogenated in the presence of a platinum catalyst until hydrogen uptake ceased. If one assumes that the hydrogenation went to completion, how many different eight-carbon hydrocarbons were produced?
 - (A) 1
- (B)2
- (C)3
- (D) 6
- (E) 8

- 14. Which of the following would you expect to have the **lowest** boiling point?
 - (A) CH₃CH₂OH
- (B) CH₃CO₂H
- (C) CH₃CH₂OCH₂CH₃ (D) (CH₃CH₂)₂NH
- (E) (CH₃CH₂)₃N

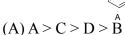
15. Which of the following structures, would be classified as anti-aromatic?





- (E) all of the above

- 16. Which alkene has the **lowest** heat of hydrogenation $\Delta H^{\circ}_{hydrog}$?
- (B) $\overset{\text{H}_3C}{\underset{\text{H}_3C}{\longleftarrow}}\overset{\text{CH}_3}{\underset{\text{CH}_3}{\longleftarrow}}$ (C) $\overset{\text{H}_3C}{\underset{\text{CH}_3}{\longleftarrow}}$
- (D) $H_3C C = CH_2$
- 17. Which of the following alkyl halides would be suitable to use when forming a Grignard reagent?
- (A) BrCH₂CH₂CH₂CN (B) CH₃COCH₂CH₂Br (C) (CH₃) ₂NCH₂CH₂Br (D) H₂NCH₂CH₂Br
- (E) all of the above
- 18. Rank the following aromatics in order of decreasing reactivity toward electrophilic aromatic substitution (most reactive > least reactive).



(B) D > C > A > B

- (C) B > C > A > D
- (D) D > A > C > B
- (E) C > A > D > B

19. Which of the following resonance structures is the most stable?



 RSO_3H

20. Rank the following in order of decreasing acidity (more acidic > less acidic):

R₃CH

(A) II > III > I > IV > V

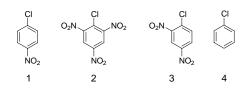
ROH RCO₂H R₂NH

(B) IV > II > I > III > V

(C) II > IV > I > III > V

(D) V > III > I > II > IV

- (E) II > IV > I > V > III
- 21. How would you rank the following in decreasing order of reactivity toward nucleophilic aromatic substitution? (most reactive on left)



(A) 4 > 1 > 3 > 2

(B) 2 > 3 > 1 > 4

(C) 3 > 2 > 4 > 1

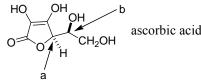
(D) 1 > 3 > 2 > 4

(E) impossible to predict

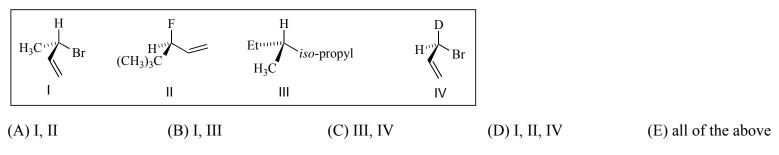
22. When you do an op	otical-resolution expe	eriment of racemic mande	lic acid you have to choi	ce the reagent "	" theoretically.									
(A) pure achiral alo	cohol	(B) pure racem	(B) pure racemic alcohol											
(C) pure (S)-amine		(D) pure racem	(D) pure racemic amine											
(E) pure achiral am	nine													
23. The following structure of the following str	cture is Vitamin C.	How many stereoisomers	(including optical isome	ers) of Vitamin C are po	ossible?									
(A) 2	(B) 3	(C) 4	(D) 6	(E) 8										
24. Assign R or S confi	igurations to the indi	cated centers in ascorbic a	acid.											
HO OH OH b														

(E) none of them

(E) none of the above



- (A) a = (R), b = (R) (B) a = (R), b = (S) (C) a = (S), b = (R) (D) a = (S), b = (S)
- 25. Which of the following pair of compounds theoretically possible to be separated by distillation?
 - (E) none of the above
- 26. Which of the following molecules have the *S* configuration?



27. How are the following compounds related?

- 28. What is the proper IUPAC name for the following molecule:

(B) enantiomers

(A) diastereomers

- (A) (2E,4Z)-2,4-heptadiene (B) (2E,3Z)-2,3-heptadiene
- (C) (2Z,4E)-2,4-heptadiene (D) (2E,4Z)-2,4-hexadiene
- (E) (2Z,3E)-2,3-hexadiene
- 29. A chiral compound (C_5H_8) upon catalytic hydrogenation yields an achiral compound (C_5H_{10}). What is the best name for the

(C) meso compounds

(D) optical isomers

- former?
 - (A) 1-methylcyclobutene (B) 3-methylcyclobutene
 - (C) 1,2-dimethylcyclopropene (D) cyclopentene
 - (E) none of them

30. Reaction of the following tosylate in its (S)-form with cyanide ion yields a nitrile product. What is the stereochemistry of the nitrile product?

OTos H₃C CH₂OCH₃

- (A) (S)-form
- (B) (R)-form
- (C) racemic form
- (D) meso form
- (E) none of them

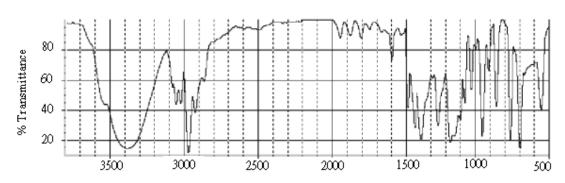
31. How many total stereoisomer(s) of the following compound is(are) possible?

HO OH OH

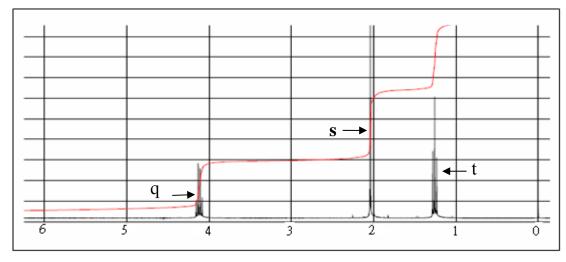
- (A) 1
- (B)2
- (C)3
- (D) 4
- (E) 6
- 32. Which methylene group of the following compound whose chemical shift in NMR spectrum is the largest one, i.e. the most downfield one?

 $CH_{3}CH_{2}CH_{$

- (A) 1
- (B) 2
- (C) 3
- (D) 4
- (E) 5
- 33. An NMR spectrameter is 400 MHz for ¹H-NMR spectra. How many MHz is it for ¹³C-NMR spectra?
 - (A) 400
- (B) 300
- (C) 200
- (D) 100
- (E) 50
- 34. Which of the following structures is consistent with the IR spectra shown below?



- A) OF
- (B) O
- (C) OH
- (D) 0
- (E) O
- 35. Which of the following structures is consistent with the ¹H NMR spectra shown below?



(A) CH₃CH₂CH₂CH₃

(B) CH₃CH₂OH

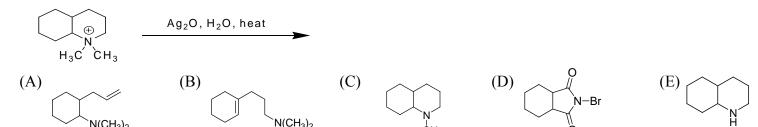
(C) (CH₃)₂CHOH

(D) CH₃CO₂CH₂CH₃

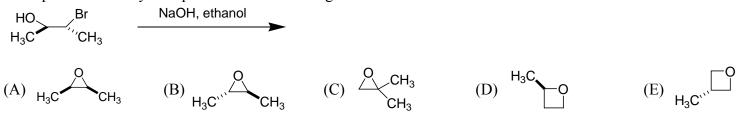
- (E) CH₃CH₂CH₂CO₂H
- 36. How many signal(s) would be present in the ¹H NMR spectrum of acrylonitrile?
 - (A) 1
- (B) 2
- (C) 3
- (D) 4
- (E) 5

37	. How many ¹ H N	MR signal(s) is(are) present	for the product of the foll	owing reaction?	
	CH ₃	1. CH ₃ MgBr; 2. H ₃ O ⁺			
	H ₃ C CN	-			
	(A) 1	(B) 2	(C) 3	(D) 4	(E) 5
38	. Which of the foll (A) tryptophan	lowing amino acids does not (B) tyrosine	have an aromatic substruction (C) phenylalanine	cture within its side chair (D) histidine	n? (E) leucine
39	. The name of the	following compound is	HN		
	(A) imidazole	(B) pyrrole	(C) indole	(D) pyrimidine	(E) pyridine
40	. The name of the	following compound is	CO ₂ H NH ₂		
	(A) anthranilic ac	cid (B) salicylic acid	(C) phthalic acid	(D) triflic acid	(E) adipic acid
41	. The best descript	tion of the following compou	and is OH		
	(A) an amide	(B) an acetal	(C) an ester	(D) an ether	(E) a hemiacetal
42		ect structure for anisole?			
	(A) NH ₂	(B) OCH ₃	(C) NHCH ₃	(D) OCH ₃	(E) CH ₂
43	. What is the prod	uct of cyclohexene reaction v	with potassium permanga	nate (KMnO ₄ , H ₃ O ⁺)?	
	(A) adipic acid	(B) glutaric acid	(C) hexanoic acid	(D) tartaric acid	(E) glutamic acid
44	. When the follow compound?	ing acid is heated to 230 °C,	carbon dioxide is evolved H OH	l and a new compound is	formed. What is the new
	(A) malonic acid	(B) adipic acid	(C) succinic acid	(D) glutaric acid	(E) oxalic acid
45	One of the follow (A) <i>N</i> -methylpro (D) piperidine	wing four amines is tertiary.	Which one? (B) propanamine (E) none of them		(C) pyrrole
46		can react with diazomethane amine (B) piperidine	to produce (C) cyclohexanone	(D) cyclopentanol	(E) no reaction
47	. What is the production OCH3	uct of the following reaction	?		
	(A) =0	(B) OH	(C) CO_2H	(D)	(E) OCH ₃
48	. Upon heating wi	th aqueous acid, pinacol (2,3	-dimethylbutane-2,3-diol) rearranges. What is th	
	$(A) \bigcirc \\ H_3C CH_3 \\ H_3C CH_3$	(B) O CH_3 CH_3	(C) $_{\text{H}_3\text{C}}$ $_{\text{CH}_3}$	(D) H_3C CH_3 CH_3	(E) H_3C CH_3 CH_3

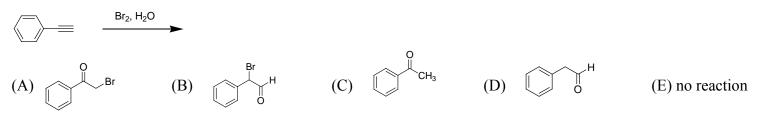
49. Major product of the following reaction is:



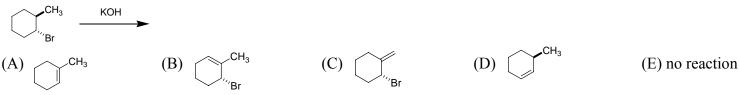
50. What product would you expect from the following reaction?



51. What product would you expect from the following reaction:



- 52. Vinylcyclopropane reacts with HBr to yield a rearranged alkyl bromide. What is the structure of the final product?
 - (A) \longleftarrow (B) $\overset{\mathsf{H}_3\mathsf{C}}{\longleftarrow}$ Br (C) \longleftarrow Br (D) \longleftarrow (E) none of them
- 53. What product would you expect from the following reaction?



54. What product would you expect from the following reaction?

$$(A) \bigcirc \qquad \qquad (B) \bigcirc \qquad (C) \bigcirc \qquad (D) \bigcirc \qquad (E) \bigcirc \qquad CI$$

55. Provide the reagents to complete the following transformation.

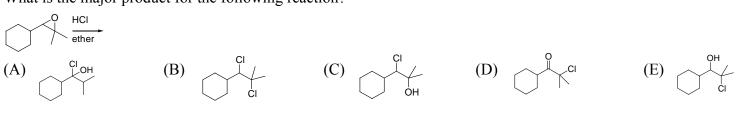
56. What reactants would be required to prepare the oxime shown below?

What reactants would be required to prepare the oxime shown below?

(A)
$$\bigcirc$$
 NH + H₂O (B) \bigcirc OH + NH₂OH (C) \bigcirc CH₂ + NO

(D) \bigcirc None of these reactants

57. What is the major product for the following reaction?



58. What is the major product for the following reaction?

$$C \equiv CH \frac{HgSO_4}{H_2SO_4, H_2O}$$

(D)
$$\bigcirc$$
 CHO + $\overset{\text{O}}{\text{CH}_2}$

59. What is the major product for the following reaction?

(A) 2,3-dimethyl-2-butene

(B) 2,3-dimethyl-1-butene

(C) 3,3-dimethyl-1-butene

(D) 3,3-dimethyl-1-butanol

(E) None of the above

60. What is the major product for the following reaction?

$$(A) \qquad (B) \qquad (C)$$

II. Choose one correct answer for the following questions

【單選題】每題2分,共計40分,答錯一題倒扣0.5分,倒扣至本大題零分為止,未作答,不給分亦不扣分。

61. What would be the structure of the final product of the following synthesis?

62. The final product of the following synthesis is

$$\begin{array}{c} \text{1. CH}_3\text{C}(=\text{O})\text{CI, AICI}_3\\ \hline 2. \text{ HNO}_3, \text{H}_2\text{SO}_4\\ \hline \hline 3. \text{ H}_2/\text{Pd, ethanol}\\ \\ \text{(A)} \quad & \text{CH}_3\\ \hline \text{CH}_3\text{CH}_3\\ \hline \text{CH}_2\text{CH}_3\\ \hline \end{array} \qquad \begin{array}{c} \text{CH}_3\\ \text{CH}_3\\ \hline \end{array} \qquad \begin{array}{c} \text{CH}_3\\ \hline \end{array} \qquad \begin{array}{c$$

63. What is the product of the following reaction sequence?

64. Which of the following statements about the reaction shown below is correct?

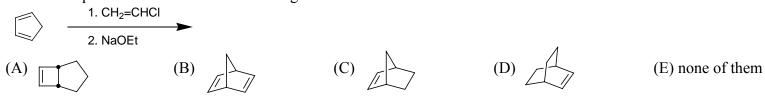
- (A) the product name is cinnamic acid
- (B) the reaction is called Knoevenagel reaction
- (C) one of the starting compound is diethyl malonate
- (D) the second step includes an intramolecular decarboxylation
- (E) all are correct statements

65. Treatment of the following epoxide with aqueous acid produces a carbocation intermediate that reacts with water to give a diol product. What is the structure of the carbocation?

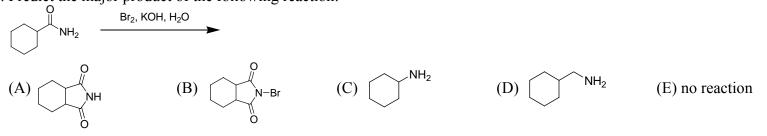


- 66. Which alcohol has the highest boiling point?
 - (A) methanol
- (B) ethanol
- (C) n-propanol
- (D) n-butanol
- (E) n-pentanol
- 67. Reduction of 2-butanone with NaBH₄ yields 2-butanol. Which of the following description is **true**?
 - (A) NaBH₄ is the oxidizing agent.
 - (B) 2-butanone (C₄H₈O) receives two hydrides from NaBH₄ to form 2-butanol (C₄H₁₀O)
 - (C) the product contains a chiral center
 - (D) the product is optical active
 - (E) None of the above
- 68. What would be the major product for the following reaction?

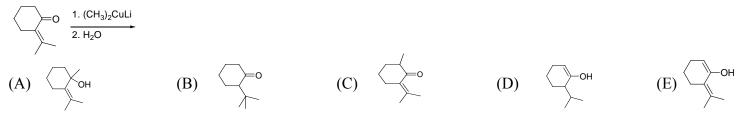
69. What is the product structure of the following reaction?



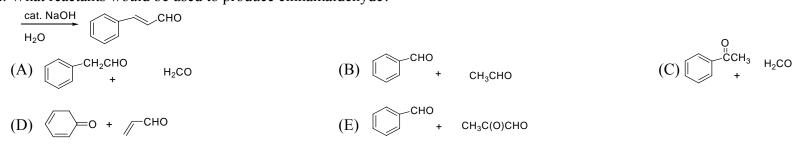
70. Predict the major product of the following reaction:



71. What would be the major product from the following reaction?



72. What reactants would be used to produce cinnamaldehyde?



73. What would be the major product from the following reaction?

$$\bigcirc + H_3C-PPh_3 Br \xrightarrow{n-BuLi}$$

- (A)
- (B) BI
- (C) OH
- (D) \bigcirc \bigcirc
- (E) CH

74. What is the product **1** of the following reactions?

$$\begin{array}{c} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \begin{array}{c} \\ \end{array} \end{array} \begin{array}{c} \\ \end{array} \begin{array}$$

- (A) _______
- (B) CHO
- (D) ——Сно
- (E) \sim CH=CHNO₂

- 75. What is the product **2** in the question 74?
 - (A) CONHCH₃
- (B) CH=NCH
- (D) CH=NCH₃
- (E) \leftarrow CHCH₂NO₂ \rightarrow H

76. Which α -amino acid is not optical active?

(A) R=H

(B) $R=CH_3$

(C) $R=CH(CH_3)_2$

(D) $R=H_2C$

- (E) $R=H_2C$ \longrightarrow OH
- 77. A molecular cation is produced by McLafferty rearrangement in the mass spectrum of the following compound. How large is its m/z?

- (A) 44
- (B) 56
- (C) 57
- (D) 58
- (E) 60

78. What is the product **1** in the following reactions?

$$+ \begin{array}{c} \begin{array}{c} \begin{array}{c} \text{COOC}_2\text{H}_5 \\ \\ \end{array} \\ \begin{array}{c} \text{heating} \end{array} & 1 \end{array} \xrightarrow{\text{LiAlH}_4} 2$$

(A) $\operatorname{cis} \bigcirc \operatorname{CH}_2\operatorname{OH}$

(B) trans CH2OH

(C) cis $COOC_2H_5$

(D) trans

- (E) COOC₂H₅
- 79. What is the product **2** in the question 78?
 - (A) CH₂OH

(B) cis CH₂OH CH₂OH

(C) trans CH_2OH CH_2OH

(D) cis CH_2OH

- $\begin{array}{cccc} \text{(E)} & \text{trans} & & \\ \hline & & \\ \text{CH}_2\text{OH} & & \\ \end{array}$
- 80. What is the product of the following reaction?

(A) $CH_3CCH_2CH_2N(C_2H_5)_2$

O || (B) CH₃CCH₂CH₂OH

(C) $CH_3CCH=CH_2$

(D) $CH_3CCH_2N(C_2H_5)_2$

(E) $CH_3N(C_2H_5)_2$

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

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

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題號	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
答案	A	C	A	Е	D	D	В	A	C	C	A	A	C	Е	C	В	A	Е	C	A	В	C	D	В	A
題號	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
答案	A	В	В	C	В	В	В	C	C	A	D	В	C	Е	C	C	C	В	D	E	A	C	Е	В	E
題號	51	52	53	54	55	56	57	58	59	60															
答案	A	A	D	D	В	C	D	D	В	D															