國立中正大學九十五學年度學士班二年級轉學生招生考試試題 共同科目:英文

第3節

第1頁,共4頁

A.	Vocabulary Choose the one which is cl (20%)	osest in meaning to the underlined word or phrase.		
1.	All those with permanent re	esidence in the republic are to be allowed to vote in the		
	poll.			
	(A) temporary	(B) forever		
	(C) enough	(D) targeted		
2.	Conditioners help by smoothing the hair's surface and <u>replenishing</u> some of its natural moisture.			
	(A) managing	(B) adding		
	(C) finishing	(D) keeping		
3.	I didn't want him to be too	uptight, so I kept the jokes coming.		
	(A) anxious	(B) dangerous		
	(C) surprised	(D) relaxed		
4.	This theme recurs several t	imes throughout the book.		
	(A) breaks out	(B) falls over		
	(C) passes quickly	(D) happens again		
5.	The new race of photograp	hers tried to seize the <u>fleeting</u> moment and make it stay.		
	(A) quiet	(B) wonderful		
	(C) depressing	(D) passing		
6.	She was sublimely unawar	e of the trouble she had caused.		
	(A) instantly	(B) uniquely		
	(C) utterly	(D) unexpectedly		
7.	Your eyes are all red and swollen. You look as if you're coming down with a flu.			
	(A) reporting	(B) contracting		
	(C) falling	(D) healing		
8.	Johnny passed out while he	e was playing tennis.		
	(A) hit the ball too hard	(B) left the tennis court		
	(C) lost consciousness	(D) failed the game		
9.	When the invoice comes in	n for payment, this is copied on to the system as well.		
	(A) bill	(B) sound recording		
	(C) information	(D) receipt		
10.	The <u>uproar</u> over the assault was accompanied by a high level of violence.			
	(A) punishment	(B) happening		
	(C) commotion	(D) change		
В.	Grammar Each sentence has four u one that should be correc	inderlined words or phrases. You are to identify the cted. (20%)		
11.	Many people are ponderin (A)	g the idea making a second career, or at least a (B)		
	lifelong hobby, out of farm (C) (D)			

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第3節

第2頁,共4頁

12.	In this country, a number of dogs re (A)	egistered has increased by	a quarter <u>over</u> the (B)
	past decade while the number aban	doned has fallen by a third	• •
	(C) (D)		•
13.	Scientists have identified nearly 40	vitamins and minerals tha	t the body needs for
	(A)	(B	
	various tasks, from shoring up bone	es to bolster the immune sy	ystem.
	(C)	(D)	
14.	By testing the subjects at regular in	itervals, researchers can se	e <u>how</u> dietary
	(A) (B)		(C)
	changes <u>effect</u> cholesterol and bloo (D)	od pressure.	
15.	Like many of her contemporaries M	Martha wants the energy th	at powers her
	(A)		(B)
	business to be <u>sustain</u> into the futur (C) (D)	e.	
16.	Parents and kids have sent thousand (A)	ds of angry online letters to	o the Education
	Ministry <u>complain</u> that the new adr (B)	missions standard is setting	students <u>against</u> (C)
	one another.		(-)
	(D)		
17.	A hundred years ago, a burgeoning	, land-hungry population <u>k</u>	tilled off the last
	(A)		(B) (C)
	of German's wolves.		
	(D)		
18.	Home to 22 of the world's 25 lowe		
	(A)	(B)	(C)
	million people by 2030 even with o	continued immigration.	
	(D)	1	C-11 days and
19.	An object <u>composed</u> largely of eart		ran downward,
	(A)	(B)	1
	while bubbles of air <u>trapped</u> under (C)	(D)	·
20.	Individuals in some cultures began	• •	tic aspirations and
20.	(A)	(B)	tio aspirations and
	deeply held values as express in the	` '	
	(C) (D)	o vidual uribi	
c.	Sentence Completion	•	
.	Choose the one that best complet	es the sentence. (20%)	
	23332 int out wat both complete		
21.	most programs are beni	ign, some have been accus	ed of promoting cults
	of personality and superstition.		
	(A) Since	(B) Because	
	(C) Though	(D) If	

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第3頁,共4頁

22.		cult to understand, and you may not grasp it on			
	your first, or your seco	nd, reading.			
	(A) even	(B) still			
	(C) as	(D) before			
23.	Many behaviors are inherited; animals.	, they evolved just like the structures of			
	(A) consequently	(B) on the contrary			
	(C) however	(D) incidentally			
24.		umn will often keep longest, a wet			
	season may shorten their storage life.				
	(A) because	(B) whereas			
	(C) after	(D) unless			
25.	• •	successfully to external influences. Sometimes,			
	however, groups find it very difficu	ilt to change			
	(A) vary	(B) interact			
	(C) adapt	(D) transmit			
26.	Jack lost his job a year ago, and				
_ +,	(A) he is already unemployed	(B) he hasn't found another job yet			
		(D) he hasn't found another job already			
27.	The bus leaves in five minutes but	we can still catch it we run.			
	(A) even if	(B) although			
	(C) if	(D) because			
28.	Write your name and address on yo				
20.	(A) in case you have lost it				
	(C) if you will lose it				
29.	· · ·	perial patronage of the arts played an important			
	role in this support.	sperial patronage of the arts played all important			
	(A) influenced	(B) composed			
	(C) represented	(D) revealed			
30.	· · ·	evision experience also allows the participant			
		nto a pleasurable and passive mental state.			
	(A) In	(B) Different from			
	(C) Unlike	(D) Not unlike			
	(C) Clinke	(D) Not white			
D.	Cloze				
	Choose the best answer for each t	olank. (20%)			
Passa	_				
other		s readers or moviegoers, for instance, we (32) lives. As listeners we discover musical form			
		is (33) by the sounds and words. As athletes			
	et goals and strive to (34) them, challe				
31.	(A) simply (B) not just	(C) at least (D) exactly			
32.	(A) become accustomed	(B) get tired of			
	(C) an against	(TD) 1 C			

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	(A) shaped (A) reveal	(B) damaged (B) fulfill	(C) confused (C) confirm	(D) rejected (D) describe
35.	(A) keep	(B) fall	(C) really	(D) very

Passage 2

Computers are becoming more and more (36) in our schools; even five-year-olds are learning how to use them. Many child development experts are worried that computers may deprive children (37) their childhood by pushing them into formal education too (38) in life. (39) feel that computers do not replace child play; they simply enhance it by (40) the imagination, for example in allowing children to write stories on the computer.

36.	(A) expressive	(B) prevalent	(C) variable	(D) expensive
37.	(A) in	(B) at	(C) of	(D) with
38.	(A) easy	(B) much	(C) late	(D) early
39.	(A) Another	(B) Others	(C) Any other	(D) The other
40.	(A) freeing	(B) inventing	(C) changing	(D) catching

E. English Writing (20%)

Write a short composition (100-150 words) in which you describe the most exciting thing that has ever happened to you. Remember to give a title to your writing.

第2節

第 | 頁,共2頁

(30%) 1. 根據下列程式,將 Scope of names 的表格填滿。

```
950
#define MAX
#define LIMIT 200
/* prototype 2 */
int fun_two(int one, char anarg);
int
main(void)
      int localvar;
} /* end main */
one(int anarg, double second)
      int onelocal;
  /* end one */
fun_two(int one, char anarg)
      int localvar;
                                    local 2
 /* end fun_two */
```

TABLE Scope of names in this program

Name	Visible in one ()	Visible in fun two()	Visible in main ()
MAX			
6 And 6 6	yes	yes	yes
LIMIT	yes	yes	yes
main			
localvar (in main)			,
one (the function)			,
anarg (int)			
second			
onelocal			
fun_two			
one (formal parameter)			
anarg (char)			
localvar (in fun_two)			

第2節

第2頁,共2頁

(30%) 2. 名詞解釋:

- (a) Compiler
- (b) Data structure
- (c) De Morgan's law
- (d) Moore's law
- (e) Top-down design
- (f) von Neumann architecture

(20%) 3. 將下列程式的執行結果寫出:

```
#include <stdio.h>
void tower(int n, char a, char b, char c, char d) {
    switch(n) {
        case 0: break;
        case 1: printf("%c->%c\n", a, d); break;
        default:
            tower(n-2, a, c, d, b);
            tower(1, a, b, d, c);
            tower(1, a, b, c, d);
            tower(1, c, b, a, d);
            tower(n-2, b, c, a, d);
    }
}
int main() {
    tower(6, 'A', 'B', 'C', 'D');
}
```

(20%) 4. 用 ANSI C 寫一程式:輸入十進位數,輸出其二進位表示式。

第4節

第/頁,共/頁

- 一、改錯題(每小題2分,總計30分)
 - 1、一到刮颱風天的時候,石門水庫就開始瀉洪。
 - 2、這匹馬駝了太多東西,已經累得走不動了。
 - 3、他生活奢糜,態度消極,卻不知反省改善,所以朋友紛紛離開了他。
- 4、他是一個不知反省自己的人,遇事總是一昧的歸疚別人。
- 5、好高騖遠,不肯按步就班的努力奮鬥,怎麼能有卓越的成就?
- 6、他只知貪圖享受,卻不事生產,終至傾家當產。
- 7、他由於平時缺乏運動,以至身體日漸衰弱。
- 8、你務必堅強,決不能屈服。
- 9、他們慣用笑臉外交的技倆來矇騙世人。
- 10、他將多年存款,全數捐給慈善機構,這種大愛的行為真令我豎然起敬。
- 11、這次聯考沒有重大蔽病產生,圓滿結束。
- 12、他那一番話,深深地叩動了我的心絃。
- 13、那場大車禍,我至今想起,還覺得心有餘忌。
- 14、違法失職的人要接受法律嚴厲的治裁。
- 15、林老伯平日急功好義,是鎮上的大好人。

二、選擇題(每小題2分,總計20分)

- 1、《後漢書·朱浮傳》載:「往時遼東有豕,生子白頭,異而獻之。行至河東,見群豕皆白,懷慚而還。」後世便以「遼東白豕」比喻 A.出類拔萃 B.少見多怪 C. 見怪不怪 D.與眾不同。
- 2、「衛青不敗由天幸,李廣無功緣數奇。」「數奇」是指 A.不懂奇門遁甲之術 B.計畫不周詳 C.命運乖舛 D.術數奇異。
- 3、王國維〈蝶戀花〉:「最是人間留不住,朱顏辭鏡花辭樹。」下句是說 A.夫妻離異 B.兒女夭亡 C.家道中落 D.年紀老邁。
- 4、《論語·公冶長》:「巧言、令色、足恭,左丘明恥之,丘亦恥之。」「足恭」是指 A.洗腳禮 B.過分謙恭 C.立正敬禮 D.行跪拜禮。
- 5、「棄市」是指: A.荒廢的城市 B.為人拋棄於市井的廢物 C.罷市 D.死刑。
- 6、「喬梓」比喻 A.兄弟 B.朋友 C.父子 D.師弟。
- 8、下列何句「堪」字之義不同 A.不「堪」一擊 B.「堪」稱大將 C.情何以「堪」D. 足「堪」重任。
- 9、下列何者不是聯綿詞 A.窈窕 B.猶豫 C.社稷 D.磅礴。
- · 10、《論語·陽貨》孔子曾說學《詩》有許多功能,下列何者不是 A.思無邪 B.可以興 C.多識鳥獸草木之名 D.事君。
- 三、請依下文,自訂題目,寫一篇作文,以抒發自己的心得感想。(50分) 子曰:「唯女子與小人為難養也!近之則不遜,遠之則怨。」(《論語·陽貨》)。

Part I. No partial credit will be given in this part. Do not need to show all your work. Only the final result will be needed.

- (1) (7 points) Find the slope of the curve $y^2 = x^2 + \sin(xy)$ at the point (0,1).
- (2) (7 points) The marginal cost of manufacturing x yards of a certain fabric is $C'(x) = 3x^2 12x + 15$ (in dollars per yard). Find the increase in cost if the production level is raised from 10 yards to 20 yards.
- (3) (7 points) Find $\lim_{x\to 0} \frac{1}{x^3} \int_0^x \frac{t^2}{t^4+1} dt$.
- (4) (7 points) Find the area of the region bounded by the curve $y = xe^{-x}$ and the x-axis from x = 0 to x = 4.
- (5) (7 points) Find the volume of the solid generated by revolving about the x-axis the region bounded by the curve $y = \frac{4}{(x^2 + 4)}$, the x-axis, and the lines x = 0 and x = 2.
- (6) (7 points) Find the direction in which $f(x, y, z) = x^3 xy^2 z$ increases most rapidly at the point (1, 1, 0).
- (7) (7 points) Find the local extreme values of the function $f(x,y) = xy x^2 y^2 2x 2y + 4$.
- (8) (7 points) Find the volume of the tetrahedron D with vertices (0,0,0), (1,1,0), (0,1,0), and (0,1,1).
- (9) (7 points) Integrate $f(x, y, z) = x 3y^2 + z$ over the line segment C joining the point (1, 1, 0) to the point (1, 1, 1).
- (10) (7 points) Calculate the outward flux of the field $\mathbf{F}(x,y) = x\mathbf{i} + y^2\mathbf{j}$ across the square bounded by the lines x = -1, x = 1, y = -1, and y = 1.
- (11) (7 points) Find the circulation of the field $\mathbf{F}(x, y, z) = (x^2 y)\mathbf{i} + 4z\mathbf{j} + x^2\mathbf{k}$ around the curve C in which the plane z = 2 meets the cone $z = \sqrt{x^2 + y^2}$, counterclockwise as viewed from above.

Part II. Partial credits will be given in this part. Show all your work to get credits.

- (12) (8 points) Show that the function $f(x) = x^4 + 2x^2 2$ has exactly one zero on the interval [0,1].
- (13) (8 points) Show that $\tan^{-1} x = x \frac{x^3}{3} + \frac{x^5}{5} \dots + (-1)^n \frac{x^{2n+1}}{2n+1} + \dots$, -1 < x < 1.
- (14) (7 points) Show that the function $f(x,y) = \frac{2x^2y}{x^4 + y^2}$ has no limit as (x,y) approaches (0,0)