TỈNH TUYÊN QUANG TRƯỜNG THPT CHUYÊN

ĐỀ ĐỀ XUẤT

Điểm của bài thi

7.

6.

ĐỀ THI CHỌN HỌC SINH GIỚI TRẠI HÈ HÙNG VƯƠNG NĂM 2024 ĐỀ THI MÔN TIẾNG ANH- LỚP 10

Thời gian làm bài 180 phút (Đề thi gồm có 14 trang, gồm 200 câu)

Chữ ký của giám khảo

Ciám khảo 1

- Thí sinh không được sử dụng tài liệu.
- Thí sinh làm bài trực tiếp vào tờ đề thi.

Dana ahan

Băng sô	Băng chữ	Giám ki	hảo I	Giám khảo 2
		,	,	
I. LISTENING	: (50 pts)			
	` - /	st talking about a	lphabetism, whi	ich he calls a new
	ination. Write yo	_	-	
V I	nination mentioned		• `	- /
			•	with a letter in the
	of the alphabet		samames segm	with a letter in the
	Presidents before C		ose names hegan	ı•
	ter in the first half	•	lose names began	••
	ter in the second ha	-	16	
		•		de the world's top
		_		ic the world's top
Children whose	and (3) _	III	uic woriu. Shahat ara mada t	to sit at the front of
the class in infer	names are at the o	egiiiiiig of the aif	attention from	o sii ai iiit iioiii oi
Lists of moonle	nt school and so ge	el (4)		n the teachers.
				sually drawn up in
alphabetic ord	er and by the	end the audien	ice, interviewers	s, etc. have (5)
		0.D. (6)		
	n do to change this			
				wrong" half of the
alphabet is that	such people are be	tter at (7)		
Your answers:				
1	2	3	4	5

Part 2: You will hear a talk about the protest on oil pipeline. Complete the following summary. (16 pts)

People in the U.S. state of North Dakota are angry because an oil company is building (1) _____ under a lake near the Standing Rock Sioux Reservation. The

	ioux people are	Native American	is wno nave be	een on the land	1 101 (<i>2)</i>
		oined by many (
					ole. They also say the
pi	peline will destro	oy sacred Sioux s	sites. The protes	stors have been	on the site for months
tr	ying to (5)	They wer	re recently joine	ed by (6)	from the U.S.
					warm in the freezing
W	inter. There has	been (7)	between	the protestors	and police. A North
					ing". However, Coast
G	uard veteran A	shleigh Jennifer	Parker said:	"We will be	unarmed, completely
рı	repared for (8)	. We d	don't even like	the word 'protes	st'. We're there to help
	e water protector				
Yc	our answers:				
	1	2	3	4	5
	6	7	8.		
٠					
P	art 3 : You will h	near a radio inter	view, decide de	cide whether th	he following
		(T) or false (F).			<i>y</i> 8
		. , .	` - /	was no public	finance and very little
	chnology.	1		1	J
	0.	929, there were n	nany canals tha	t were competing	ng with each other but
	ere not uniform i		,	1	\mathcal{E}
3.	The new union of	of canals provide	d a continuous	link between m	ajor industrial cities.
		-			ajor industrial cities. and around the canals.
4.	There are plenty	of natural habita	nts for a variety	of wildlife on a	and around the canals.
4. 5.	There are plenty Walkers can go	of natural habita	nts for a variety aterway office to	of wildlife on a	•
4. 5. th	There are plenty Walkers can go	of natural habita to the nearest wa	nts for a variety aterway office to	of wildlife on a	and around the canals.
4. 5. th	There are plenty Walkers can go bey can start and cour answers:	of natural habita to the nearest wa end at the same p	nts for a variety aterway office to	of wildlife on a	and around the canals.
4. 5. th	There are plenty Walkers can go bey can start and cour answers:	of natural habita to the nearest wa end at the same p	nts for a variety nterway office to lace.	of wildlife on a o get information	and around the canals. on on circular walks so
4. 5. th Yo	There are plenty Walkers can go ey can start and o our answers: 1.	of natural habitato the nearest watend at the same p	ats for a variety aterway office to lace.	of wildlife on a get information	and around the canals. on on circular walks so
4. 5. th	There are plenty Walkers can go aey can start and o bur answers: 1. art 4: You will h	of natural habitato the nearest watend at the same p	ats for a variety aterway office to lace. 3	of wildlife on a property of wildlife on a property of the pro	and around the canals. on on circular walks so 5 endship. Choose the
4. 5. th	There are plenty Walkers can go yey can start and o your answers: 1. art 4: You will he yeswer A, B, C or	of natural habitate to the nearest was end at the same p 2 near a psychological D which fits best	ats for a variety aterway office to lace. 3 ist being interval according to the state of the state o	of wildlife on a property of wildlife on a property of the pro	and around the canals. on on circular walks so 5 endship. Choose the
4. 5. th	There are plenty Walkers can go ey can start and o our answers: 1. art 4: You will h mswer A, B, C or James says that	of natural habitate to the nearest was end at the same p 2 near a psychological D which fits besidence and the same p	ats for a variety aterway office to lace. 3 ist being interval according to a largery if	of wildlife on a property of wildlife on a property of the pro	and around the canals. on on circular walks so 5 endship. Choose the
4. 5. th	There are plenty Walkers can go tey can start and of tey can start and o	of natural habitate to the nearest was end at the same p 2 near a psychological D which fits best	its for a variety aterway office to lace. 3 ist being interval according to a largey if layed.	of wildlife on a property of wildlife on a property of the pro	and around the canals. on on circular walks so 5 endship. Choose the
4. 5. th	There are plenty Walkers can go ey can start and o our answers: 1. art 4: You will h mswer A, B, C or James says that A. they thin B. other driv	of natural habitate to the nearest was end at the same p 2. Dear a psychological D which fits beside driver become an keep threaten then	ist being intervitation of the state of the	of wildlife on a pet information of get information	and around the canals. on on circular walks so 5 endship. Choose the
4. 5. th	There are plenty Walkers can go aey can start and o bur answers: 1. art 4: You will h aswer A, B, C or James says that A. they thin B. other driv C. other peo	of natural habitato the nearest was end at the same p 2. near a psychological D which fits beside driver become an k they will be delivers threaten then the sple don't drive as	its for a variety aterway office to lace. 3	of wildlife on a pet information of get information	and around the canals. on on circular walks so 5 endship. Choose the
4. 5. th You [Po and 1.	There are plenty Walkers can go tey can start and of tey can start and o	of natural habitato the nearest was end at the same per a psychological driver become and they will be delivers threaten them uple don't drive as control of their control of th	ist being intervate according to a layed. s well as they dear.	of wildlife on a pet information of get information	and around the canals. on on circular walks so 5 endship. Choose the
4. 5. th You [Po and 1.	There are plenty Walkers can go tey can start and of tey can start and o	of natural habitato the nearest was end at the same p 2. Dear a psychological D which fits beside driver become an k they will be delivers threaten then exple don't drive as control of their can lead motorists	ist being intervated according to the layed. as well as they dear. to	of wildlife on a pet information of get information	and around the canals. on on circular walks so 5 endship. Choose the (10 pts)
4. 5. th You [Po and 1.	There are plenty Walkers can go tey can start and of tey answers: 1. art 4: You will he tey will he tey A, B, C or James says that A. they thin B. other driv C. other peo D. they lose Revenge rage can A. chase after	cof natural habitate to the nearest was end at the same per a psychological power of the property of the prope	ist being intervitate according to a layed. as well as they dear. to	of wildlife on a per information of get information	and around the canals. on on circular walks so 5 Endship. Choose the (10 pts)
4. 5. the Yor [P. and 1. 2.	There are plenty Walkers can go tey can start and of tey can start and o	cof natural habitate to the nearest was and at the same personal process. 2. 2. 2. 2. 2. 2. 3. 4. 4. 4. 4. 4. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6	ist being intervalued. ist being intervalued. and a second in the seco	of wildlife on a per information of get information	and around the canals. on on circular walks so 5 Endship. Choose the (10 pts)
4. 5. the Yor [P. and 1. 2.	There are plenty Walkers can go tey can start and of tey can start and o	cof natural habitate to the nearest was end at the same per a psychological power of the property of the prope	ist being intervalued. ist being intervalued. and a second in the seco	of wildlife on a per get information of get informa	and around the canals. on on circular walks so 5 Endship. Choose the (10 pts)
4. 5. the Yor [P. and 1. 2.	There are plenty Walkers can go tey can start and of tey can start and o	cof natural habitate to the nearest was and at the same personal process. 2. 2. 2. 2. 2. 2. 3. 4. 4. 4. 4. 4. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6	ist being intervalued. ist being intervalued. and a second in the seco	of wildlife on a per information of get information	sind around the canals. On on circular walks so
4. 5. th You Property 1. 2. 3.	There are plenty Walkers can go tey can start and of tey can start and o	cof natural habitate to the nearest was end at the same personal process. 2. 2. 2. 2. 2. 2. 3. 4. 4. 4. 4. 4. 5. 5. 6. 6. 6. 6. 6. 6. 6. 6	ist being interval according to the acco	of wildlife on a per get information of get informa	and around the canals. on on circular walks so 5 endship. Choose the (10 pts) cracted whilst driving. essary risks ble
4. 5. th You Property 1. 2. 3.	There are plenty Walkers can go aey can start and o but answers: 1. art 4: You will h aswer A, B, C or James says that A. they thin B. other driv C. other peo D. they lose Revenge rage ca A. chase aft C. deliberate James say that p A. slow C. crowded According to James	cof natural habitate to the nearest was and at the same personal process. 2. 2. 2. 2. 2. 2. 3. 4. 4. 4. 4. 4. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6	ist being intervited according to the ac	of wildlife on a per get information of get informa	and around the canals. on on circular walks so 5 endship. Choose the (10 pts) cracted whilst driving. essary risks ble

C. Our surro	oundings can affe	ct the way	y we drive) .	
D. Regular b	oreaks on a journ	ey keep d	rivers calr	n.	
5. James thinks the	hi-tech car				
A. sounds le	ess irritating than	a passeng	ger. B. i	is not ver	y reliable.
C. could cau	ise further dangei	•	D. '	would be	difficult to control.
Your answers:					
1	2	3	4	l	5
II. VOCABULAR		•	- /		
					e following sentences.
1. My secretary wa					
	B. suppos				D. ordered
2. I'm afraid that the	ne facts don't	yo	our theory	•	
	B. check of				
3. I wouldn't like t					
-	B. hazard				•
4. With his excelle	_	and a goo	od commai	nd of Eng	glish, James is
above the other app	plicants.				
A. head and	hair		B. head as	nd ears	
C. head and			B. head and earsD. head and shoulders		
5. Teachers have the	ne authority to dis	scipline p	oupils by _		of their position as
teachers.					
	B. virtue				
6. The young man	committed the cr	ime		_ the influ	ence of drugs.
A. under	B. on		C. with		D. by
7. The new curricu	lum has been des	signed to		stuc	lents learning by
combining theory	with hands-on pra	actice.			
A. endow	B. optimiz	ze	C. sharper	n	D. estimate
8. We would like to	o pay	to all	the artists	who mad	de this wonderful
festival possible.					
_	B. reward				
9. Don't you feel the	he problems need	ls to be _		head-	-on?
A. solved	B. worked	l out	C. ironed	out	D. tackled
10. The city below	her was	with no	eon lights.		
A. afresh	B. alight		C. ablaze		D. acute
11. Children born					
A. marriage			B. marriaş	ge license	
C. wedlock			D. home		
12. I've just heard	that argument be	fore and	quite frank	kly it just	doesn't!
A. face the r	nusic		B. hit the	nail on th	ne head
C. carry wei			D. hold w		
13. Attempts to he	lp only	the prob	lem so the	ey were fo	orced to call in the
emergency service					
A. extricated	d B. enerva	ted	C. extirpa	ited	D. exacerbated

1	4. The spoilt scho			-	
	•	•	-	lled D. co	mpelled
1	5. Don't trust cun				
	A. hit	B. stab	C. cut	D. pu	inch
Y	our answers:				
	1	2	3	4	5
	6	7	8	9	10
	11	12	13	14	15
D	art 2: Complete th	ha santangas by aba	unging the form of	the word in conital	6
	There was quite a b				
	xam papers.	nt of (COM OSE)	occause	the examiner name	d out the wrong
	You're acting comp	oletely(RATIONAI	() Just c	alm down and null y	vourself together
	Einstein's (BRILL)				, carser together.
	This is generally co				ia.
	It's absolutely (EXI				
	. I just stood there ar				
	Greg's (DECIDE)				
	Many children crea				
	He was found not g				a mental institution
	ther than prison.				
1	0. Your argument is	(LOGIC)	Just because y	you want me to be a	doctor doesn't mean I
W	ant to be one.				
Y	our answers:				
	1	2	3	4	5
	6	7.	8	9.	10
P	art 3: Each sent	tence below con	tains ONE mis	take. UNDERL	INE the mistake
a	nd WRITE TH	IE CORRECT F	ORMS in the sp	oace provided.	
	. Man is superior		-	· -	unicate
	. Man	B. than	C. in that	D. commun	
2	. The basic eler	ments of public-	opinion research	n are interviewe	rs, questionnaires,
	abulating equipme		-		, 1
	basic elements	_		D. to sample	e
			•	-	at State University
		-			n a <u>master's degree</u> .
	a. requires			D. master's	
	1		~		the wife of the first
	resident of the un		ovv and <u>mas tanen</u>	<u> </u>	ne wife of the first
-	a. at	B. has taken	C. her	D. the first	
					ita new producta to
			y to seize the <u>init</u>	iation by getting	its <u>new</u> products to
	ne <u>market</u> before i L. opportunity	B. initiation	C. new	D. market	
Α	. opportunity	D. mittativii	C. HCW	D. market	

Your answers:

MISTAKES	CORRECT FORMS
1.	
2.	
3.	
4.	
5.	

III. READING COMPREHENSION (60 pts)

Part 1: Read the following passage and decide which word best fits each space. Circle the corresponding letter A, B, C or D (10pts)

Circle the corresponding	ng letter A, B, C on	r D (10pts)	
Work on the human	n brain has indicate	ed how different parts	s are centres of activity
for different skills, feeling	ngs, perceptions an	d so on. It has also b	een shown that the left
and right halves, or hem	nispheres, of the bra	ain are (1)	for different functions
While language is proce			
is processed in the righ	t, or emotional he	misphere. However,	professional musicians
have the (2)	to process music in	n the left hemisphere	more often than those
without musical training			
which is likely to be the			
to it. (4) of n	nusic like tone, pitc	ch and melody are all	probably processed in
different parts of the bra	in. Some features	of musical experience	e are processed not just
in the auditory parts of	the brain, but in the	e visual ones. We don	n't yet fully understand
the (5) of this	s. The tempo of mu	usic seems to be (6)	related to its
emotional impact, with	fast music often (7	() as happi	er and slower music as
sadder. It is the same	with the major bio	ological rhythm of th	he body: our heart (8)
quickens whe	n we're happy, but	slows when we're sa	ad. Military music may
have (9) from	m attempts to get	us ready for (10) _	by using fas
drumming to stimulate	our hearts to beat	faster. Music is per	rhaps one of the most
complex experiences the	e brain copes with a	and it has become an	absolutely vital part of
our rituals and ceremon	ies. It has power b	beyond language to c	ommunicate mood and
co-ordinate our emotiona	al states.		
1. A. amenable	B. dependable	C. responsible	D. reliable
2. A. tendency	-	C. possibility	D. intention
3. A. proposes		C. introduces	D. suggests
4. A. Views	B. Aspects	C. Factors	D. Pieces
5. A. expectations	•	C. assumptions	D. propositions
6. A. surely	*	C. evidently	D. directly
7. A. felt	B. endured	C. encountered	D. touched
8. A. pulse		C. pace	D. rate
9. A. evolved	B. extended	C. advanced	D. elevated

	10. A. battle	B. fight	C. quar	rel	D. struggle
Yo	our answers:				
	1	2	3	4	5
	6.	7.	8.	9.	10.

Part 2: Fill ONE suitable word in each blank. (10pts)
THE CULT OF CELEBRITY

1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	
Your answers:	
being famous.	
It peoples talk shows, sells goods and newspapers and rewards the famous for –	well
Modern celebrity, peopled by the largely vain and vacuous, fills a need in our l	
centre of attention at some time in their lives?	
the flashlights bouncing around them who doesn't want to be	the
instant fame offered by television want to step out of the limousine	
easy to see why people crave celebrity, (9) generations reared or	1 the
democratic, more ordinary, more achievable, little wonder it's a modern ambition	
Today, almost (8) can be famous. Never has fame been a	nore
of some glittering soap opera.	
its members live out their lives in public, like self-regarding mem	
to exist largely (6) that the rest of us might watch and be amaze	
celebrity is the profession (4) the mome vainglorious vocation which, (5) some 18 th -century royal court, so	ems
	` /
lonely bedroom mirror can be replaced by the TV camera and flash gun, the	
It is an end in (2), and the sooner it can be achieved, the soone	
a reward for gallant service or great, perhaps even selfless endeav	` ′
scientists. Now, taking their lead from TV, they just 'want to be famous'. Fame is no	
Once, children had ambitions to be doctors, explorers, sportsmen, artist	or or

Part 3: Read the passage and choose the best answers (A, B, C or D) to the questions. (10pts)

Population ecology is the science that measures changes in population size and composition and identifies the causes of these fluctuations. Population ecology is not concerned solely with the human population. In ecological terms, a population consists of the individuals of one species that simultaneously occupy the same general area, rely on the same resources, and are affected by similar environmental factors. The characteristics of a population are shaped by its size and by the interactions among individuals and between individuals and their environment.

Population size is a balance between factors that increase numbers and factors that decrease numbers. Some factors that increase populations are favourable light and temperature, adequate food supply, suitable habitat, ability to compete for resource, and ability to adapt to environmental change. Factors that decrease populations are insufficient or excessive light and temperature, inadequate food supply, unsuitable or

destroyed habitat, too many competitors for resources, and inability to adapt to environmental change.

Another important characteristic of any population is its density. Population density is the number of individuals per units, such as the number of maple trees per square kilometer in a county. Ecologists can rarely determine population size by actually counting all individuals within geographical boundaries. Instead, they often use a variety of sampling techniques to estimate densities and total population sizes. For example, they might estimate the number of black bears in a national park by counting individuals in a few sample plots representative of the whole park. In some cases, they estimate population size through indirect indicators, such as the number of nests or burrows, or signs such as tracks or droppings.

Another important population characteristic, dispersion, is the pattern of spacious among individuals within the population's geographical boundaries. Various species are distributed in their habitats in different ways to take better advantage of food supplies and shelter, and to avoid predators or find prey. Within a population's **range**, densities may vary greatly because not all areas provide equally suitable habitat, and also because individuals space themselves in relation to other members of the population.

Three possible patterns of dispersion are clumped, uniform, and random. A clumped dispersion pattern means that individuals are gathered in **patches** throughout their habitat. Clumping often results from the irregular distribution of resources needed for survival and reproduction. For example, fallen trees keep the forest floor moist, and many forest insects are clumped under logs where the humidity is to **their** liking. Clumping may also be associated with mating, safety, or other social behavior. Crane flies, for example, swarm in great numbers, a behavior that increases mating chances, and some fish swim in large schools so they are less likely to be eaten by predators.

A uniform or evenly spaced distribution results from direct interactions among individuals in the population. For example, regular spacing of plants may result from shading and competitions for water. In animal populations, uniform distribution is usually caused by competition for some resource or by social interactions that **set up** individual territories for feeding, breeding, or testing.

Random spacing occurs in the absence of strong attraction or repulsion among individuals in a population. Overall, random pattern are rare in nature, with most populations showing a tendency toward either clumped or uniform distribution.

Populations change in size, structure, and distribution as they respond to changes in environmental conditions. Four main variables- births, deaths, **immigration** and **emigration** — determine the rate of change in the size of the population over time. A change in the birth rate or death is the major way that most populations respond to changes in resource availability. Members of some animal species can avoid or reduce the effects of another with more favorable environmental conditions, thus altering the population's dispersion.

- 1.According to the passage, which factor might cause the population of a species to decrease in size?
 - A. A favorable amount of light and water
 - B. An ability to hide from or defend against predators

- C. A large number of other species competing for food D. A greater number of births than deaths 2. Which of the following is an indirect indicator of a population's density? A. The distribution of food in a given area B. The number of nests in a given area C. The number of births in a given period of time D. The number of individuals counted in a given area 3. The distribution pattern of individuals within a population's geographical boundaries is known as A. population ecology B. population density C. population change D. population dispersion 4. The word **range** in paragraph 4 is closest in meaning to
- - A. territory
- B. control
- C. history

D. shelter

- 5. The word patches in paragraph 5 is closest in meaning to
 - A. dark places
- B. family groups
- C. warm spots
- D. small areas

- 6. The word **their** in paragraph 5 refers to
 - A. resources
- B. trees
- C. insects
- D. logs
- 7. All of the following are given as reasons for clumping EXCEPT
 - A. uneven resource distribution
- B. territorial disputes

C. mating behavior

- D. safety from predators
- 8. The phrase set up in paragraph 6 is closest in meaning to
 - A. forbid
- B. establish
- C. increase
- D. conceal
- 9. Which of the following situation s would be most likely to result in a uniform dispersion pattern?
 - A. Birds compete for a place to build their nests
 - B. Fish swim in large schools to avoid predators
 - C. Whales develop strong bonds among relatives
 - D. Elephants form a circle to protect their young
- 10. Why does the author mention **immigration** and **emigration** in paragraph 8?
 - A. To identify factors affecting population dispersion
 - B. To give examples of territorial behavior in animals
 - C. To show that populations balance themselves over time
 - D. To explain why animal populations are uniformly dispersed

Your answers:

1	2	3	4	5
6	7	8	9	10

Part 4: The reading passage below has 7 paragraph A-G. Choose the correct heading for each paragraph from list of heading below. Paragraph A is taken as examples (20pts)

List of Headings

- i. The biological clock
- ii . Why dying is beneficial
- iii. The ageing process of men and women

- iv. Prolonging your life
- v. Limitations of life span
- vi. Modes of development of different species
- vii. A stable life span despite improvements
- viii. Energy consumption
- ix. Fundamental differences in ageing of objects and organisms
- x. Repair of genetic material

Question 1-5

Example	
Paragraph	A - v
Paragraph	\mathbf{B} - $\mathbf{i}\mathbf{x}$
	1. Paragraph C
	2. Paragraph D
	3. Paragraph E
	4. Paragraph F
	5 Paragraph G

- A. Our life span is restricted. Everyone accepts this as 'biologically' obvious. 'Nothing lives for ever!' However, in this statement we think of artificially produced, technical objects, products which are subjected to natural wear and tear during use. This leads to the result that at some time or other the object stops working and is unusable ('death' in the biological sense). But are the wear and tear and loss of function of technical objects and the death of living organisms really similar or comparable.
- **B.** Our 'dead' products are 'static', closed systems. It is always the basic material which constitutes the object and which, in the natural course of things, is wom down and becomes 'older'. Ageing in this case must occur according to the laws of physical chemistry and of thermodynamics. Although the same law holds for a living organism, the result of this law is not inexorable in the same way. At least as long as a biological system has the ability to renew itself it could actually become older without ageing; an organism is an open, dynamic system through which new material continuously flows. Destruction of old material and formation of new material are thus in permanent dynamic equilibrium. The material of which the organism is formed changes continuously. Thus our bodies continuously exchange old substance for new, just like a spring which more or less maintains its form and movement, but in which the water molecules are always different.
- C. Thus ageing and death should not be seen as inevitable, particularly as the organism possesses many mechanisms for repair. It is not, in principle, necessary for a biological system to age and die. Nevertheless, a restricted life span, ageing, and then death are basic characteristics of life. The reason for this is easy to recognise: in nature, the existent organisms either adapt or are regularly replaced by new types. Because of changes in the genetic material (mutations) these have new characteristics and in the course of their individual lives they are tested for optimal or better adaptation to the environmental conditions. Immortality would disturb this system it needs room for new and better life. This is the basic problem of evolution.

D. Every organism has a life span which is highly characteristic. There are striking differences in life span between different species, but within one species the parameter is relatively constant. For example, the average duration of human life has hardly changed in thousands of years. Although more and more people attain an advanced age as a result of developments in medical care and better nutrition, the characteristic upper limit for most remains 80 years. A further argument against the simple wear and tear theory is the observation that the time within which organisms age lies between a few days (even a few hours for unicellular organisms) and several thousand years, as with mammoth trees.

E. If a life span is a genetically determined biological characteristic, it is logically necessary to propose the existence of an internal clock, which in some way measures and controls the ageing process and which finally determines death as the last step in a fixed programme. Like the life span, the metabolic rate has for different organisms a fixed mathematical relationship to the body mass. In comparison to the life span this relationship is 'inverted': the larger the organism the lower its metabolic rate. Again this relationship is valid not only for birds, but also, similarly on average within the systematic unit, for all other organisms (plants, animals, unicellular organisms).

F. Animals which behave 'frugally' with energy become particularly old, for example, crocodiles and tortoises. Parrots and birds of prey are often held chained up. Thus they are not able to 'experience life' and so they attain a high life span in captivity. Animals which save energy by hibernation or lethargy (e.g. bats or hedgehogs) live much longer than those which are always active. The metabolic rate of mice can be reduced by a very low consumption of food (hunger diet). They then may live twice as long as their well fed comrades. Women become distinctly (about 10 per cent) older than men. If you examine the metabolic rates of the two sexes you establish that the higher male metabolic rate roughly accounts for the lower male life span. That means that they live life 'energetically' — more intensively, but not for as long.

G. It follows from the above that sparing use of energy reserves should tend to extend life. Extreme high performance sports may lead to optimal cardiovascular performance, but they quite certainly do not prolong life. Relaxation lowers metabolic rate, as does adequate sleep and in general an equable and balanced personality. Each of as can develop his or her own 'energy saving programme' with a little self-observation, critical self-control and, above all, logical consistency. Experience will show that to live in this way not only increases the life span but is also very healthy. This final aspect should not be forgotten.

Questions 6 - 10

Do the following statements agree with the views of the writer in reading passage? In the boxes 6 - 10, write:

YES

if the statement agrees with the views of the writer

NO if the statement contradicts the views of the writer

NOT GIVEN if it is impossible to say what the writer thinks about this

6. The wear and tear theory applies to both artificial objects and biological systems.
7. In principle, it is possible for a biological system to become older without ageing.

- 8. Experience will show that to live in this way not only increases the life span but is also very healthy
- 9. Within seven years, about 90 per cent of a human body is replaced as new. 10. Conserving energy may help to extend a human's life.

Your answers:

1	2	3	4	5
6	7	8	9	10

Part 5: Read the passage, or questions 1-10, choose the appropriate section (A-F) in the article. The sections may be chosen more than once. (10pts)

Is there an architect in the house?

We took three offices, each in dire need of improvement, and paired them with three workplace design experts. Tom Dyckhoff watched their theories put to the test.

The multimedia company

A. The problem: The reception at Channelfly.com is crammed with "new office" design features: the bashed-up sofas, the table football, the spike-haired staff, Daff Punk on the stereo. But it's all front. Behind, it's crowded and confusing, with strip lighting, hotch-potch furniture and thirsty spider plants. Not exactly the image of a young multimedia music company.

"We get top musicians like Cerys from Catatonia coming here," says the Managing Director, Jeremy Ledlin. "We don't want it to look like an office." But it just looks ugly. "Well, we don't want it to look like that either." The company has long working hours and a wide range of activities, so it's hard to keep coordinated. The claustrophobic, labyrinthine layout doesn't help either.

B. The solution: Architect Ralph Buschow says, "The office should be like a city. You need ugly areas too. What they need right now is somewhere to talk, not just the street or the photocopier. Otherwise, people only talk to the same people all the time. There was another office we went to where we put a bar next to the lift and it immediately became a hotbed of idea-swapping. And they need signposts. People want easy clues about how everything connects, or they go crazy.

The charity

- C. The problem: Dreariness, cramped space, stifling ventilation, nasty lighting, carpet tiles, utilitarian furniture- Jim Devereux has it all and the deep dissatisfaction that goes with it. The trouble is money: "In a charity, it's tight." His office, a housing aid center combined from two shops in Fleetwood. Lancashire, is a threadbare, with only a clock, clutter, posters on benefit rates and the like for decor. "But our biggest bother is there's nowhere to go for a break, so everyone has lunch at their desks, and we've got six new staff starting soon. Mind you, you should have seen where we used to work."
- **D. The solution:** "Hmm," sighs architect Mervyn Hill. Sometimes The answer isn't design, but rethinking how you work, like how to work flexibly in the space you have: think of computers as workstations, do different jobs in different parts of the office, and keep mobile: not one person tied to a desk all day." But what about the ambience? "The people here are so committed, they'd work in a cellar with two candles.

A charity shouldn't be luxurious, but it needs to be warm. This is Spartan. The bare fluorescent strip lights have to go. Up lights will lift the ceiling, make it sparkle."

The call center

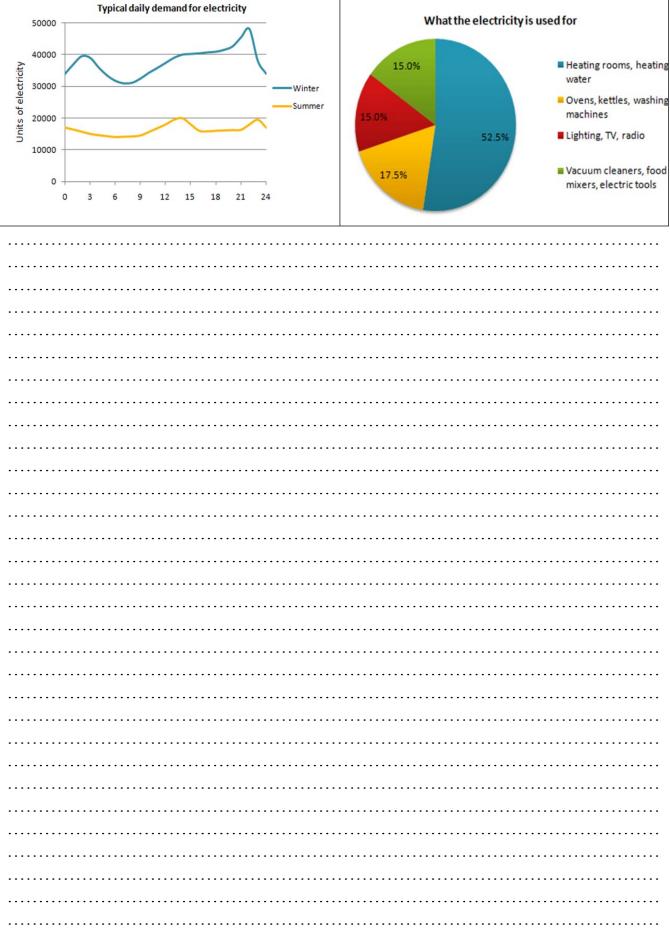
- **E. The problem:** Account manager Sally Stapleton insists this isn't a call center. In fact, she calls where she works in Edinburgh a contact center. "Compared with other contact center it's light and airy, with plants, fresh decor." But a call center's a call center, even when it's a contact center- with similar problems, such as noise, and mundanity. "We need to alleviate the repetitive tasks of the agents, so they can enjoy what they're selling. We don't mind a more casual space. But we'd draw the line at lots of fluffy animals cluttering up the desks."
- **F.** The solution: "I've seen a lot worse," says Julian Frost wick. He sounds disappointed. "But there's lots to get my teeth into. They need to humanize the space. It's very bland and anonymous. They can kill a few birds with one stone by putting in a beautiful new ceiling, a big wave, maybe, and this would break up the space into defined areas. Keep the rest cosmetic, treating the windows for glare, a few colors. A bit of bright red will make it more exciting

Your answers:

1
2
3
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9
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V. WRITING (60pts)

Part 1: The graph below shows the demand for electricity in England during typical days in winter and summer. The pie chart shows how electricity is used in an average English home. Summarize the information by selecting and reporting the main features and make comparisons where relevant. You should write at least 150 words. (20pts)



Part 2: Write an essay of about 300 words on the following topic. (40pts) Cases of bullying in school are increasing and worsing. What do you think are the causes of this?

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