SỞ GIÁO DỤC VÀ ĐÀO TẠO

KỲ THI CHỌN HỌC SINH GIỚI THCS CẤP TỈNH NĂM HỌC: 2020-2021

ĐỀ CHÍNH THỰC

Môn: TIẾNG ANH (ngày thi: 18/3/2021)

Thời gian làm bài: 150 phút. (không tính thời gian phát đề)

	(whong that thot gian plan ac)
- Họ và tên thí sinh:	

Ghi chú:

- Đề thi có 11 trang. Thí sinh nộp lại Đề thi và Phiếu trả lời khi hết giờ làm bài thi.
- Thí sinh ghi câu trả lời của mình trên **Phiếu trả lời**.
- Thí sinh không được sử dụng tài liệu, kể cả từ điển.
- Mở đầu và kết thúc phần thi nghe có tín hiệu nhạc.
- Phần thi nghe kéo dài 30 phút, bao gồm 03 phần; mỗi phần nghe 02 lần.
- Giám thị không giải thích gì thêm.

I. LISTENING (50 points)

<u>Part 1:</u> You will hear people talking in eight different situations. Choose the best answers (A, B or C). Write the answers (A, B, C) on your answer sheet.

- 1. You hear a psychologist talking about green spaces in cities. What does she say about them?
 - **A.** Few governments make them a priority.
 - **B.** They are more important for children than for adults.
 - C. People fail to appreciate them as much as they should.
- **2.** You hear a careers adviser talking to a woman who has applied for two jobs. *What suggestion does he make?*
 - **A.** Ask the first company to be flexible
 - **B.** Withdraw the application for the second job
 - C. Find out more information about the first job
- 3. You hear a girl talking about a psychology textbook. What does she say about it?
 - **A.** It is not very interesting.
 - **B.** It is good value for money.
 - **C.** It is going to come in useful.
- **4.** You hear the mother of a famous skier talking about a competition. She says that her daughter
 - A. gave up her job to practise for it.
 - **B.** didn't tell her she was entering it.
 - **C.** expected to win the competition.
- **5.** You hear a retired ballerina comparing dancers today with dancers in the past. *She says professional ballet dancers today*
 - **A.** dance with less technical ability.
 - **B.** are more interested in being celebrities.
 - C. are less concerned about expressing emotion.
- 6. You hear a chef talking about making a TV series. What does he say about it?
 - **A.** He didn't like the working hours.
 - **B.** He didn't get on with his co-presenter.
 - C. He didn't expect to enjoy the experience so much.
- 7. You hear two friends talking about a popular television programme. What is the programme about?
 - A. retirement

B. cookerv

- C. teaching
- **8.** You hear two people talking about a place they have visited. What kind of place is it?
 - A. a museum

B. a library

C. a shop

<u>Part 2:</u> You will hear five short extracts in which people are talking about how to give good presentations. Choose from the list (A–H) what advice each person gives. Use the letters only once. There are three extra letters which you do not need to use. Write the answers (A-H) on your answer sheet.

 Speaker 1 Speaker 2 Speaker 3 	A. Add some humour.B. Keep your presentationC. Find out about your audD. Practise giving your pre	ience. sentation.	
12. Speaker 4	E. Don't try to memorise e	•	
13. Speaker 5	F. Try to relax during your		
10. Speaker 3	G. Remember to repeat you		
	H. Support your presentation	on with visuals.	
TWO WORDS in each 14. People start to los 15. Keeping your bra 16. People's memoria	se their power of memory when the start to get worse as soon as	RDS on your answer sho in they are in the parties	rocess of memory loss.
17. You can get your	brain working by coming hom	le by a	
10. Vay and many like	hour most of	aays wiii neip keep you p	onysically fit.
20. Alwaya put thing	ely to suffer memory loss if yo	u smoke and	·
20. Always put things	s that you keep losing in the	·	
21. Whiling things up	of someone wi	ll help vou to remember :	their name
23. You may find it d	lifficult to remember what you	know if you are	men name.
24. Don't practise a	wearing y	our pyiamas.	•
25. Write down the n	nain points of your speech and	the	em.
answers (A-D) on yo	ur answer sheet. Lost l	uggage	
You get off	your plane and (26)y		e Reclaim area, where you
(27) the carou waiting, there is no (2 gone (29) . WI	usel for your flight and wait path (28) of your bags and yo	tiently for your luggage. u begin to consider the p	After quite some time spent ossibility that they may have
	ise they were mislaid at the d		
	ts weight allowance. If they (
before you leave the	e baggage hall and go throug	h customs. (33)	your luggage should be no
	ou've kept (34) of you	r baggage check – those	e little barcodes stuck to the
back of your tickets a			
	dling agent's desk and (35)		
	l bag and its (36) Make		
<u> </u>	ound, your insurance company	• •	•
	en, ask the baggage-services reforwarded to your final (38)		ephone number and commin
	9) up within a day or		show (and it may be weeks
	epts that they are permanently		
26. A. go	B. get	C. make	D. walk
27. A. locate	B. place	C. position	D. situate
28. A. indication 29. A. lost	B. sign B. missing	C. noticeC. absent	D. markD. misplaced
30. A. example	B. understanding		D. inisplaced D. explanation
31. A. surpassed	B. overtaken	C. exceeded	D. explanation D. outdone
32. A. lack	B. overtaken B. omit	C. avoid	D. fail

33. A. Retraci 34. A. hold		B. Retaining	C. Recovering	D. Reinstating
	ing	B. control	C. property	D. hand
35. A. carry of	nit	B. complete	C. fulfil	D. realize
36. A. content		B. inside	C. filling	D. packing
37. A. safe		B. clear	C. confident	D. sure
38. A. destiny	,	B. destination	C. termination	D. terminus
39. A. turn		B. come	C. bring	D. put
40. A. refund		B. reparation	C. amendment	D. compensation
The hot they consider Ninja, which of the cat turned its owners were their old home in spite of have and, ever (47)	er sheet. the homing instinct is the home. Cats off disappeared shoup at its old home in the new living. Cate Pilsbury, and the renow living to cross sevon and an arms.	inct s what makes certain ten have this instinct ortly (42) ne even (43) Other cats may (45) English cat, made a 1 reral busy roads to (40 cient times, human be	animals, birds and fish retu. It was particularly strong its owners had taken it to to the this was 1360 kilometre travel so far but a 3-kilometre journey back to be ings have used them to be income.	arn (41) the place g in an American cat called their new home; a year later s away from (44) many keep on going back to to its former home 40 times lso have the homing instinct carry messages back home. ddress in (49) to
				than useful or
It may depressed. Th	y come (51)	no surprise	to learn that household	chores can make you feel
more likely the bound to be determined to be determined to be determined to be determined to some the conclusion the work (55) and the continue to some to some the continue to s	epressing," say fined end point ey become stres in the home much work honsibility (56)_(57) sout of fashion hy away (59) way to comp Tracy Kerry b awful (61) now them. Swe that are the to cope."	to suffer from means psychologist Nichood. People prefer tasks sed." has no job descriptase gone into preparing the lion's longer pride themsels," says Prof Emler, we doing the ensating for dull, repelieves that many people gone a room may see to gone way to do it." To of no use to us anyments.	ption and family membring an evening meal or clear share of domestic chores, ves on having a spotless have of hopoints (58)t dishes. In other situation etitive work, but housework pple nowadays just don't kneed people whose mothers eem an easy enough task of make housework easier store. "Keep clutter (65)	ork men and women do, the f repetitive cyclical work is res are open-ended tasks, so [34] a satisfactory a satisfactory a satisfactory a satisfactory are rarely appreciate just ning the bathroom. Women but with many in full-time ome. "The concept of being hat the vast majority of men as financial reward can go k is a strenuous job with no chow how to do housework. It is were (62) busy to perform, (63) he suggests (64) control and you will
more likely the bound to be determined to be determined to be determined to be deconclusion the work (55)	epressing," say fined end point ey become stres in the home much work honsibility (56)_(57) so out of fashion hy away (59) way to comp Tracy Kerry bawful (61) now them. Swe to cope." The second at the second of the s	to suffer from mean specific property sed." has no job description of the lion's longer pride themsels," says Prof Emler, we doing the ensating for dull, repetitives that many period of inexperience of inexperience of inexperience of no use to us anymals. Sentence so that it he change the word given the series of the sentence so that it he change the word given the series of the sentence so that it he change the word given the series of the sentence so that it he change the word given to the sentence so that it he change the word given the sentence so that it he change the word given the sentence so that it he change the word given the sentence so that it he change the word given the sentence so that it he change the word given the sentence so that it he change the word given the sentence so that it he change the word given the sentence so that it he change the word given the sentence so that it he change the word given the sentence so that it he change the word given the sentence so that it he change the word given the sentence so that it he change the word given the sentence so that it he change the word given the sentence so that it he change the word given the sentence so that it he change the word given the sentence so that it he change the word given the sentence so the senten	ption and family membring an evening meal or clear share of domestic chores, wes on having a spotless have been on the structure work, but housework exittive work, but housework exittive work, but housework exittive work an easy enough task on make housework easier some. "Keep clutter (65)	ork men and women do, the f repetitive cyclical work is res are open-ended tasks, so [4] a satisfactory a satisfactory a satisfactory a satisfactory of the bathroom. Women but with many in full-time ome. "The concept of being that the vast majority of men as financial reward can gook is a strenuous job with no chow how to do housework. It were (62) busy to perform, (63) he suggests (64)
more likely the bound to be determined to see the work of the word in parent the word give determined to be	epressing," say fined end point be become stress in the home much work honsibility (56)_(57) sout of fashion hy away (59) way to compose tracy Kerry be awful (61) now them. Swe to cope." The best way and a wrote to cope."	to suffer from mean specific property sed." has no job description of the lion's longer pride themsels," says Prof Emler, we doing the ensating for dull, repetitives that many perfer pring a room may see the lion's of no use to us anymean set of the gym frequently to the gym frequently.	ption and family membring an evening meal or clear share of domestic chores, wes on having a spotless have been on the structure work, but housework exittive work, but housework exittive work, but housework exittive work an easy enough task on make housework easier some. "Keep clutter (65)	ork men and women do, the frepetitive cyclical work is res are open-ended tasks, so (4) a satisfactory a satisfactory are rarely appreciate just ning the bathroom. Women but with many in full-time ome. "The concept of being hat the vast majority of men as financial reward can go k is a strenuous job with no know how to do housework. It were (62) busy to perform, (63) he suggests (64) control and you will the first sentence, using the land FIVE words, including FOUR or FIVE words) on thier. (as)

66. I'm concerned about whether I'll be able to finish the		
→ What I'll be able to 67. We had to leave the movie early or we would have a	o finish the project on tin	me.
67. We had to leave the movie early or we would have a → If we had of the m	missed the last bus. (stay novie, we would have mis	red) ssed the last bus.
68. That was one of the best meals I've had this year. (a	us)	
→ I've had very that	were soing out (rung)	
69. Mary didn't ring us last night because she knew we		4
→ Mary if she hadn' 70. Louise didn't really feel like going out for a meal. (1)	t known we were going (out.
→ Louise wasn't really	going out for a meal.	`
→ The man said that he had	on the train last v	veek.
72. My mother thought it would be good for me to live	abroad for some time. (b	enefit)
→ My mother thought that73. I am sorry I didn't contact you, but I was very busy.	abroad for some to	me.
73. I am sorry I didn't contact you, but I was very busy.	(touch)	
→ I apologise for you 74. Helen finally managed to think of a solution to her p	u, but I was very busy.	
→ Helen finally succeeded	a solution to her p	roblem.
75. I was late for work because I missed my bus. (account		
→ I was late for work	_ my bus.	
III. READING (40 points)		
Part 1: You are going to read an article about a shoem	aker. Choose the correc	et answer (A, B, C or D).
Write the answers (A-D) on your answer sheet.		
The shoem		
Bill Bird is a shoemaker who cannot make shoes	fast enough for his grow	ing number of customers
- and he charges more than £300 for a pair! Customers	travel hundreds of kilom	etres to his London shoe
shop or to his workshop in the countryside to have thei	r feet measured. He mak	es shoes for people with
feet of unusual sizes: very large, very small, very br		
fashionable as those found in ordinary shops.	•	
Mr Bird says: "My problem is that I cannot find	skilled workers. Young	people all seem to prefer
to work with computers these days. We will lose the n		
fewer shoemakers nowadays. I am 45, and now I want		
making shoes. It's a good job, and a lot of people want		
He started in the business 19 years ago and now 1	· ·	-
about £500 for their first pair of shoes. He says: "Our		
shoes which are exactly the right size." Extra pairs of sl		
employee a whole week to make just one shoe.	noes cost between £320 t	and £450, as it takes one
employee a whole week to make just one shoe.		
76. What is the writer trying to do in the text?		
A. describe where Mr Bird finds his staff	B. encourage people to	waar comfortable shoe
	D. show Mr Bird's worn	
C. advertise a job selling expensive shoes	D. show wil Blid's woll	les about his trade
77. In paragraph 1, "charges" means	D .: 1 . 1	
A. asks an amount of money for a service	B. gives somebody a res	=
C. rushes forward and attack somebody	D. accuses somebody of	t a crime
78. In paragraph 2, "skilled workers" means workers the		
A. just graduated from universities	B. a lot of social skills	
C. a lot of certificates and résumés	D. ability, knowledge an	nd experience
79. In paragraph 3, " <u>employee</u> " means		_
A. employer B. boss	C. worker	D. customer
80. What can readers find out from this text?		
A. how to get to Mr Bird's London shop	B. how much Mr Bird's	shoes cost
C. how many customers Mr Bird has	D. how to make shoes li	ike Mr Bird

81. What is Mr Bird's opi			
A. They prefer other j		B. They don't work har	_
C. They want too much		D. They are difficult to	train.
82. Customers choose Mr	_		
A. are the most fashio		B. fit perfectly.	
C. are traditional in de	_	D. look very unusual.	
83. Which advertisement			
		ers. Good job with small com	
_		or unskilled jobs working with	
		in large shoe company in Lon	
D. wanted - young pe	ople to train as shoemake	ers. Must be able to use a con	iputer.
Azriel Blackman, on the airfield at Kenned Blackman turns 92 next ma job he started in an eray Five days a week, long before sunup and w detailing what maintenand overnight at the airport. Tand service requests, he ston the wall featuring his partitude for metal fabrical his long career, Mr. Black flying boat, which, in 194 the company's trans-Atla world's first jumbo jet, the "The first airpland have," Mr. Blackman said inspections. And the peop On Tuesday, American presented with a plaque from "While Mr. Black incalculable", said Robert Doug Parker, the current	an airline mechanic for A dy International Airport nonth. But those constrainal when trans-Atlantic comman. Mr. Blackman drives his ell before his 5 a.m. started has been completed and hen, wearing a lime-gree arts his walk through a moortrait surrounded by four an started his career in 19 was in Manhattan. According to the American Airling and the four and the following the	merican Airlines, is not allow or even use any tools. That ints have not stopped him fromercial flights were novel fearmself from his home in Queet time. His job as crew chief d what remains to be done on vest and clutching a paper of assive hangar, often passing but types of aircraft flown by A942, he was 16 and a recent g ding to the airline, after a teach ats an hour as an apprentice in the state and a recent grant and clutching 25 years with the grant of American Expensive that are now part of airline lens was called American Expensive that are now part of American Expensive the years they learned—siness are, for the most part, abration for Mr. Blackman, cords for the longest career as each the way he once could be sident of American from 198 on hand for the ceremony. Me guy who sits with the new key	ed to climb ladders, drive 's understandable – Mr. m showing up to work at ts. ens Village to the airport is to review paperwork 17 jetliners that are kept containing a list of planes below an enormous mural American. raduate of Aviation High her sent a note explaining a the sheet metal shop. In ore, including a Sikorsky ort Airlines – inaugurated in the company when the ican's fleet. ystems modern airplanes better regulations, better very competent people." during which he will be an airline mechanic. what he has to offer is 0 to 1998. He, along with r. Crandall said. "This is
84. What can be the best to		A '1D1 1	
	will hold a celebration for		
	man has offered America		
•	mechanic passes it on to		
	chanic has helped keep p	-	
85. The word "constraint A. challenges	B. limitations	C. mechanics	D ages
86. What does Azriel Black			D. ages
A. He walks around the	· · · · · · · · · · · · · · · · · · ·	B. He repairs jetliners.	
C. He drives on the ai	_	D. He examines paperw	ork
87. The word "his" in par		b. The examines paperw	OIK.
A. the airline's	B. a teacher's	C. an apprentice's	D. Mr. Blackman's

88. The word "crude" in par	agraph 4 is closest is	n meaning to	
A. cheap	B. rude	C. normal	D. simple
89. The author mentions all	of the following abo	ut Azriel Blackman in the pas	ssage EXCEPT
A. How much he earns	B. What he does at	work C. Where he studied	D. How old he is
90. Which of the following of	ould best describe the	ne author's attitude in the pas	sage?
A. Pessimistic	B. Respectful	C. Subjective	D. Sympathetic
from the extract. Choose from the extract. Choose from extra paragraph which you A. The recruitment of men there was very little persection.	om the paragraphs do not need to use. to the armed forces oution, since gamekee	a magazine article. Six parage A-G the one which fits each Write the answers (A-G) on during the conflict in Europe expers went off to fight. As the ge, recolonising many of its	gap (91-96). There is one your answer sheet. from 1914 to 1918 meant e number of gamekeepers

- **B.** The wildcat waits for a while in rapt concentration, ears twitching and eyes watching, seeing everything and hearing everything, trying to detect the tell-tale movement of a vole or a mouse. But there is nothing, and in another leap he disappears into the gloom.
- C. The results, which are expected shortly, will be fascinating. But anyone who has seen a wildcat will be in little doubt that there is indeed a unique and distinctive animal living in the Scottish Highlands, whatever his background.
- **D.** They probably used deciduous and coniferous woodland for shelter, particularly in winter, and hunted over more open areas such as forest edge, open woodland, thickets and scrub, grassy areas and marsh. The wildcat was probably driven into more mountainous areas by a combination of deforestation and persecution.
- **E.** As the animals emerge, their curiosity is aroused by every movement and rustle in the vegetation. Later they will accompany their mother on hunting trips, learning quickly, and soon become adept hunters themselves.
- **F.** This is what makes many people think that the wildcat is a species in its own right. Research currently being undertaken by Scottish Natural Heritage is investigating whether the wildcat really is distinct from its home-living cousin, or whether it is nothing more than a wild-living form of the domestic cat.
- **G.** It is a typical image most folk have of the beast, but it is very much a false one, for the wildcat is little more than a bigger version of the domestic cat, and probably shows his anger as often.

Scottish Wildcat

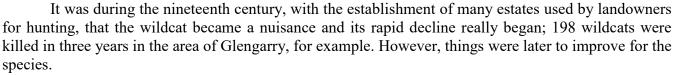
On my living-room wall I have a painting of a wildcat by John Holmes of which I am extremely fond. It depicts a snarling, spitting animal, teeth bared and back arched: a taut coiled spring ready to unleash some unknown fury.

91.____

However, the physical differences are tangible. The wildcat is a much larger animal, weighing in some cases up to seven kilos, the same as a typical male fox. The coat pattern is superficially similar to a domestic tabby cat but it is all stripes and no spots. The tail is thicker and blunter, with three to five black rings. The animal has an altogether heavier look.

The Scottish wildcat was originally distinguished as a separate subspecies in 1912, but it is now generally recognised that there is little difference between the Scottish and other European populations. According to an excellent report on the wildcat printed in 1991, the animals originally occurred in a variety of habitats throughout Europe.

92.					



93.

The future is by no means secure, though, and recent evidence suggests that the wildcat is particularly vulnerable to local eradication, especially in the remoter parts of northern and western Scotland. This is a cause for real concern, given that the animals in these areas have less contact with domestic cats and are therefore purer.

94. _____

Part of the problem stems from the fact that the accepted physical description of the species originates from the selective nature of the examination process by the British Natural History Museum at the start of the century, and this has been used as the type-definition for the animal ever since. Animals that did not conform to that large blunt-tailed 'tabby' description were discarded as not being wildcats. In other words, an artificial collection of specimens was built up, exhibiting the features considered typical of the wildcat.

The current research aims to resolve this potential problem. It is attempting to find out whether there are any physical features which characterise the so-called wild-living cats.

95.

But what of his lifestyle? Wildcat kittens are usually born in May/June in a secluded den, secreted in a gap amongst boulders. Another favourite location is in the roots of a tree.

96. _____

Rabbits are a favourite prey, and some of the best areas to see wildcats are at rabbit warrens close to the forest and moorland edge. Mice, small birds and even insects also form a large part of the diet, and the animal may occasionally take young deer.

The wildcat is one of the Scottish Highlands' most exciting animals. Catch a glimpse of one and the memory will linger forever.

<u>Part 4:</u> You are going to read four reviews of books about sleep and dreams. For questions 97-106, choose from the reviews (A–D). The reviews may be chosen more than once. Write the answers (A–D) on your answer sheet.

Which re	view
97.	emphasises how enjoyable sleep is?
98.	says certain aspects of our lives are becoming less distinct from one another?
99.	points out that many people share a mistaken belief?
100.	describes the structure of the book?
101.	explains why we have certain experiences?
102.	mentions a practical problem faced by scientists?
103.	says the book shows that major developments have occurred in a field?
104.	says the writer deals with issues that cause debate?
105.	comments that our lack of knowledge regarding sleep is surprising?
106.	says the reader learns how a technological advance caused problems?

Four books about sleep

A) Sleepfaring

Why do we sleep? Are we sleeping enough? How can we tackle sleep problems? Jim Horne finds answers to these questions and many more in Sleepfaring, a journey through the science and the secrets of sleep. He reveals what goes on in our brains during sleep, and also gives some hints from the latest sleep research that may just help you get a better night's rest. In recent years, understanding sleep has become increasingly important, as people work longer hours, styles of working have altered, and the separation between workplace and home is being reduced by cell phones and the internet. Horne draws on the latest research to reveal what science has discovered about sleep. Nor does Horne avoid controversial topics; challenging, for example, the conventional wisdom on the amount of sleep

we actually need. For anyone wishing to know more about the many mysterious processes that begin when we close our eyes each night, Sleepfaring offers a wealth of insight and information.

B) Dreaming

What is dreaming? Why are dreams so strange and why are they so hard to remember? In this fascinating book, Harvard researcher Allan Hobson offers an intriguing look at our nightly journey through the world of dreams. He describes how the theory of dreaming has advanced dramatically. We have learned that, in dreaming, some areas of the brain are very active – the visual and auditory centres, for instance – while others are completely shut down, including the centres for self-awareness, logic, and memory. Thus, we can have visually vivid dreams, but be utterly unaware that the sequence of events or localities may be bizarre and, quite often, impossible. And because the memory centre is inactive, we don't remember the dream at all, unless we wake up while it is in progress. With special boxed features that highlight intriguing questions – Do we dream in colour? (yes), Do animals dream? (probably) – Dreaming offers a cutting-edge account of the most mysterious area of our mental life.

C) Counting Sheep

Even though we will devote a third of our lives to sleep, we still know remarkably little about its origins and purpose. Does getting up early really benefit us? Can some people really exist on just a few hours' sleep a night? Does everybody dream? Do fish dream? How did people cope before alarm clocks and caffeine? And is anybody getting enough sleep? Paul Martin's Counting Sheep answers these questions and more in this illuminating work of popular science. Even the wonders of yawning are explained in full. To sleep, to dream: Counting Sheep reflects the centrality of these activities to our lives and can help readers respect, understand, and appreciate that delicious time when they're lost to the world.

D) Dreamland

Reporter Randall provides a brisk tour of sleep research and what it means for individuals hoping to feel well rested. The author engaged with sleep research in part because of his sleepwalking. Researching the world of sleep is obviously difficult because sleeping subjects selected for studies rarely remember anything specific. Nonetheless, Randall interviewed sleep researchers and read academic papers to learn what he could from those who devote their careers to the science of sleep. The book is not a continuous narrative but rather a loose progression of chapters about different sleep-related issues. For example, Randall explains how the invention of electricity led to countless cases of sleep deprivation; the lack of utter darkness after sunset is often the enemy of sound sleep. He also emphasises the too-often neglected common-sense realisation that sleep is no void; rather, it is perhaps one third of the puzzle of living well.

<u>Part 5:</u> You are going to read an article about Ocean Energy Systems. Choose the correct answer (A, B, C or D). Write the answers (A-D) on your answer sheet.

Ocean Energy Systems

(1) In recent years, the oceans have been seen as a potential source of energy. Oceans are huge reservoirs of renewable energy, which have yet to be properly harnessed. Some estimates say that during the second decade of this century, ocean energy sources will generate more than 1,000 megawatts of electricity, which is enough to power a million homes in the industrialized world. Several technologies have been developed for exploiting these resources in a practical way, among which ocean thermal energy conversion (OTEC) is one of the most promising. Experimental OTEC plants have been constructed using different operating principles, although as yet no large-scale commercially viable plant has been launched.

(2) The basic operation behind this system uses the heat energy stored in the oceans as a source of power. The plant exploits the difference in water temperature between the warm surface waters heated by the sun and the colder waters found at ocean depths. A minimum temperature difference of 20 degrees Celsius between surface and depth is required for efficient operation, and this situation is typically found only in tropical and subtropical regions of the world. There are two basic kinds of OTEC system: the open cycle system and the closed cycle system. In the open cycle system, the warm surface water is converted

into steam in a partial vacuum and this steam drives a turbine connected to an electrical generator. In a closed cycle system, the warm surface water is used to boil a fluid, such as ammonia, which has a low boiling point. In both systems cold water pumped up from the ocean depths condenses the vapor. In the open system, the steam is condensed back into a liquid by cold water pumped from deep-ocean water and then discharged. In the closed system, the condensed ammonia is used to repeat the cycle continuously. Various hybrid systems using characteristics of both open and closed cycle plants have also been designed.

(3) The OTEC system is potentially an important source of clean, renewable energy, which could significantly reduce our reliance on fossil fuels and nuclear fission. Unlike <u>other forms</u> of renewable energy, such as those provided directly by the sun and wind, OTEC plants can generate power 24 hours per day, 365 days per year. Furthermore, the design of this technology avoids any significant release of carbon dioxide into the atmosphere. OTEC can offer other important benefits apart from power production. Aquaculture is one important spinoff. The nutrient-rich cold water is an excellent medium for growing phytoplankton, which provide support for various commercially exploitable fish and shellfish. It may also be economically feasible to extract minerals from the pumped seawater. Freshwater for drinking and irrigation is another by-product, and this will be an important advantage in regions where freshwater is limited.

(4) Some drawbacks to this form of power generation have been noted. Perhaps the biggest drawback at present is the high capital cost of initial construction due mainly to the expense of the large pipeline used to pump water from 1,000 meters below the surface. Furthermore, the conversion of thermal to electrical energy in the OTEC system works at very low efficiency, which means that these plants will have to use a lot of water to generate practical amounts for the power grid. For this reason, the net power output is reduced, since a significant portion of the output must be used to pump water. <u>There are also potential ecological drawbacks</u>, <u>since the water discharges will change the water temperature and disturb some marine habitats</u>. This impact could, however, be minimized if the water is discharged at greater depths.

(5) The main obstacle created by high initial expenses will have to be met before OTEC competes with conventional alternatives, and until such time, OTEC will remain restricted to experimental plants. When technology permits lower start-up costs, this technology will make an important contribution to world energy requirements.

107.	The phrase "other forms" in paragraph 3 refers to energy produced through
	A. fossil fuels and nuclear fission B. sun and wind
	C. chemical reactions D. OTEC systems
108.	In paragraph 3, what can be inferred about the different sources of energy?
	A. We rely too much on fossil fuels and nuclear fission.
	B. Energy from OTEC is provided directly by the sun and wind.
	C. Energy forms other than OTEC do not have important benefits.
	D. Renewable energy releases a lot of carbon dioxide into the atmosphere.
109.	In paragraph 3, why does the author write about aquaculture and mineral extractions?
	A. To give examples of possible developments related to OTEC
	B. To demonstrate what other activities can be done in the ocean
	C. To point out OTEC's advantages in regions of limited resources
	D. To show how the environment can be improved by using clean, renewable energy
110.	According to the passage, all of the following are problems with the OTEC system as a power-
	generating system EXCEPT
	A. the damage caused to fishing grounds
	B. the costs of constructing the power system
	C. the effect of discharged water on the environment
	D. the amount of water needed to produce a useful amount of electricity

- 111. Which of the sentences below best expresses the essential information in the <u>underlined</u> sentence in paragraph 4? Incorrect choices change the meaning in important ways or leave out essential information.
 - **A.** Water discharges will disturb the ecology of the oceans.
 - **B.** Water outflow temperatures could upset local marine life.
 - **C.** The OTEC system has a tendency to upset marine environments.
 - **D.** Outflows of water will affect the ocean temperature at great depths.
- 112. Which of the following statements most accurately reflects the author's opinion about OTEC technology?
 - A. Only very large OTEC plants can be made efficient.
 - **B.** The disadvantages of OTEC energy outweigh its advantages.
 - **C.** OTEC will eventually supply most of the world's energy needs.
 - **D.** OTEC technology has a useful role to play in total energy production.
- 113. According to the passage, in what way are the basic kinds of OTEC systems similar?
 - **A.** They release unused water into the ocean. **B.** They turn surface water into steam.
 - **C.** They use cold water to cause condensation. **D.** They convert water in a vacuum.
- 114. It can be inferred from the passage that _____.
 - A. renewable energy can be put into reservoirs
 - **B.** the experimental plants are ready to be launched
 - C. the oceans could be used in the future to generate electricity
 - **D.** 1,000 megawatts of electricity is the amount needed in the average home
- 115. According to the passage, what can be inferred about the factor that allows the ocean to be used as an energy source?
 - **A.** The oceans are so large that they can produce a lot of energy.
 - **B.** The oceans can store vast amounts of heat energy to be used to run basic electricity plants.
 - C. In polar climates, the sun does not sufficiently heat the deeper water for practical energy use.
 - **D.** The plants are typically found in the tropical and subtropical regions of the world because of the warm weather.

IV. WRITING (60 points)

Part 1:

Your name is Tracy. Nikita, a friend of yours, has written to you to ask for some advice on time management skills. Write to him (100-150 words) to give him as many suggestions as you can. Begin your letter with "Dear Nikita".

Part 2:

Some people think that the best way to deal with littering in urban areas is imposing heftier fines.

To what extent do you agree or disagree with the statement above? Give reasons for your answer and include any relevant examples from your own knowledge or experience. You should write an essay of between 200-300 words.

THIS IS THE END OF THE TEST.