

博士英语教程

DOCTORAL ENGLISH COURSE

方柳新 编著

石油工业出版社

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前 言

《博士英语教程》已经在教学的基础上进行了多次改进。现在正式出版，加上了将近十年来所积累的关于听说的训练材料，所以，此次修订有了重大的变化，即：将这一教材的目的定义为“在听、说、读、写四方面全面提高使用英语的能力”。

国家教委 1992 年下达的《学位研究生英语教学大纲》中对博士生英语水平的要求凝缩为三条：（一）熟练的阅读能力；（二）较好的写作能力；（三）一定的听说能力。

本教材按其要求而编，目的在于：（一）对阅读技巧做出全面总结，并在大学以及硕士研究生英语水平的基础上提高阅读速度、理解能力、分析能力以及准确性，为日后的大量文献阅读做出方法性的指导；（二）重点介绍阐述性文章的写作方法，包括句法、段落及总体文章的结构，以便使同学能用英语正确明了地阐述自己的观点，写出观点明确、逻辑紧密、详略得当、结构合理的学术论文（其方法也可以移植在中文的写作中）。

本教材同时是一次将阅读与写作这两门基本技能合二项为一教的尝试。所选文章既是扩大词汇与句型以及培养语感的好文章，同时也是以不同方法来阐述观点的写作典范。尤其是“科学研究方法”（The Method of Scientific Investigation）一文，不仅能对阅读技巧做出全面的总结及检阅，更是英语世界中几乎人所共知的科技写作高峰，是模仿的对象。所选文章的文字深奥、结构复杂时，所训练的是阅读技巧以及语言感觉；文章的文字浅显、结构简单时，训练的侧重点则在于写作技巧及其运用。无论具体课文是否深浅，教材的整体性在于对阅读与写作进行全面的、总结性的同步训练。

国家教委现在更名为教育部，十多年过去了，但针对博士生的要求却并没有新的教学大纲。但是，现在国家改革开放的形势比十年前更好，对我们所培养的人才提出了更高的要求，在英语能力方面的要求更加突出，首先就要求过听说关。因此，我们现在的教学大纲首先尊重以前的第一条和第二条，在第三条上修改两个字，即：过硬的听说能力。

所谓“过硬的听说能力”，主要表现在：（一）在听的方面，要克服在听英语的过程中必须通过汉语来理解的毛病，要能直接对所听到的内容用英语反应，因此而能够对所听到的内容有足够的时间和空间来思索其意义的合理性，达到真正意义上的理解，或者说，达到理解的高级阶段；（二）在说的方面，要求达到能在国际讲坛上宣读自己的英语文章，或者经过一定的准备能用英语作报告，具体要求为语音、语调基本正确，节奏上轻重缓急得当，逻辑分明，言语规范，意义准确无误。

在整个课程的学习期间，每一天都有新的内容，每一周都有新的要求，每一个学生都要求上讲台。听说方面，教师除了对整个班级每周提出新要求外，还必须根据每个学生的不同的实际情况提出不同的要求和训练的重点。

每个学生的起点可能都会不一样，但最终的要求是一致的。多年的教学实践证明：只要能够确实去完成好自己每天必须完成的任务，就一定能在最后达到我们定义的“过硬的听说能力”，而不管他的起点是什么。

条条道路通罗马。望同学们尽快地找准自己的位置，找准自己前进的道路。

《博士英语教程》尽管已经试用了多年，此次正式出版又承蒙了出版社诸位同志的精心校阅，但一定还有不少的不当之处，敬请指正。

最后，向出版社为出版此教材所付出的辛勤劳动表示衷心的感谢。

编者

2004年1月

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LISTENING AND SPEAKING

VOA ENVIRONMENT REPORT

The Male Sex Gene

I. Fill in the blanks missing words from what you hear.

1. They say if the gene is _____ an embryo will become a _____; if the gene is _____, the embryo will become a _____.
2. This is not the first time scientists have thought they _____ the male sex gene. _____ years ago, scientists at the Whitehead Institute in Cambridge, Massachusetts, announced _____ had discovered it.
3. Every human _____ contains 23 _____ of chromosomes.
4. Researchers have learned that for the first weeks of development all human embryos are the same _____. They are neither _____ nor _____.
5. They also knew there are as many as _____ genes on that chromosome.
6. If the _____ developed into a male, the gene will be considered _____.

II. Answer the Following Questions:

1. What have a group of British scientists discovered about the male sex gene?
2. Where did they do their work?
3. Who first made a similar discovery?
4. When does a human begin to develop sexually?
5. Rewrite the example given in the Science Report, which shows the importance of the discovery.
6. What is the conclusion of the report?

VOA ENVIRONMENT REPORT

Cholera Attacks Rwandan Refugees

I. Fill in the blanks missing words from what you hear.

1. Although a cease-fire was _____ at the beginning of last week, Rwandans continue to

- _____ their _____.
2. They are suffering from _____ and _____.
 3. It (cholera) quickly _____ away its victims' _____.
 4. Death often comes _____ a few hours after a person shows the first _____ of the disease.
 5. Many _____ officials say they _____ thousands of Rwandans to die of cholera. Officials can not stop this _____ of the disease, because of the _____ of clean water, medicine and _____ to transport food and supplies.
 6. It appealed for _____ aid from countries throughout the world.
 7. The head of the United Nations' _____ Team said the _____ of the problem was so great military troops were needed to _____ with the efforts to _____ the situation.

II. Answer the following questions with words of your own.

1. Where have the refugees gathered?
2. What is the disease of cholera?
3. What is the death percentage of cholera among large numbers of people?
4. How soon will a victim die?
5. Why cannot the spread of the disease be stopped?
6. What kinds of aid had the United Nations Children's Fund flown to Zaire?
7. Why are military troops needed?
8. What did President Clinton do as to the situation?

VOA PEOPLE IN AMERICA

Jessie Owens (1)

Paragraph 1: Make notes according to the requirements of the exercise; you may write down the key words only.

Time:

Place:

Event:

Reasons for Special Interest:

a.

b.

Background for Hitler's conviction:

Paragraph 2: Fill in the blanks words that you hear.

Jessie Owens was black, too. Until 1936, very _____ athletes had competed in the _____ for the United States. Jessie was proud to be _____. He was very sure of his ability. Jessie spent one week _____ in four different Olympic track-and-field events in _____. During that time he did not think much about the _____, or about Adolf Hitler. He said later, "I was looking only at the _____. I thought of all the years of practice and competition, and of all who believed in me."

Paragraphs 3: Answer the questions with words of your own.

1. Why cannot we know about Hitler's impression of Jessie Owens?
2. How can we know about Jessie's performance in the games?
3. What can you know about Jessie from the historical "records"?
4. What did people say about Jessie's performance?
5. What were his victories?

Jessie Owens (2)

Paragraph 4: Make your notes again.

1. the first city he returned to in the U.S:
2. the second:
3. the university he had attended:
4. his financial success:
5. the reason for his financial problem:
6. his methods to survive:
 - a:
 - b:

Paragraph 5: Another note-taking.

7. date of his birth:
8. his birth-place:
9. the number of his family:
10. reasons for their leaving the south:
 - a.
 - b.
11. characteristics of the new place:
 - a.
 - b.
12. reasons for a better living:
 - a. (unfavorable)
 - b. (favorable)

Paragraph 6: Fill in the blanks with the words you hear.

Jessie, especially, was _____. He entered a school, where one white teacher, Charles Riley, took a special interest in him. Jessie looked _____ and _____, and Riley wanted to make him _____. Through the years that Jessie _____ in school, Riley brought him _____ in the morning. He often invited the boy to _____ in the evening. And everyday before school he taught Jessie how to run like an athlete. At first the idea was only to make the boy stronger. But soon Riley saw that Jessie was a _____. By the time Jessie had completed high school, his name was _____ the nation. Ohio State University wanted him to attend there; so it _____ him a _____ education. While at Ohio State, he _____ new world records on several track-and-field events, and he was

_____ as a member of the United States' Olympic team.

VOA PEOPLE IN AMERICA

Jessie Owens (3)

Paragraph 7: Answer the following Questions.

1. What was Jessie's attitude toward Riley?
2. What was Riley's influence upon Jessie?
3. What did Jessie say to the young people?
4. What was the general impression about his speeches?
5. How successful was he with his work in his later life?

Paragraph 8: Answer the following questions.

1. What is the title of the book he wrote?
2. What kind of people did he criticize in the book?
3. What was his attitude toward the racial discrimination in the United States?
4. What was the black reaction?
5. Did he change his attitude? How?
6. What did he say about his first book in the second one?

Paragraph 9: Dictation—write every word you hear.

VOA SCIENCE REPORT

Compact Discs

I. Fill in the blanks missing words from what you hear.

1. Scientists in Africa often have difficulty _____ about discoveries in _____

- _____ of the world.
2. Compact discs are flat _____ objects. They contain large amounts of information in _____ form.
 3. A compact disc is small and _____. It _____ just a few grams.
 4. African scientists are using all _____ of them.
 5. In Zimbabwe, for example, a university _____ has discs with the _____ medical information.
 6. Another new technology is a _____ system that sends and _____ information.
 7. They permit scientists in many parts of Africa to send _____ technical _____ quickly by telephone.
 8. Of course a few _____ dollars is a lot of money for scientific centers that _____ foreign _____.

II. Answer the following questions.

1. Why is it difficult for African scientists to learn about the discoveries in the outside world?
2. What was the compact disc used for before storing information?
3. How will the words and pictures held in a disc appear so that people can know what they are?
4. How much information can a disc hold?
5. What is the discovery of the team sent by the National Academy of Sciences of the United States?
6. What are the other new technologies of transmitting information?
7. What are the advantages of the compact disc? List three of them at least.

VOA SCIENCE IN THE NEWS

The Leap Second

I. Fill the blanks words from what you hear.

1. There is an old _____ that time _____ no one.

2. Time _____ for one second at the end of 23:59 Greenwich Mean or _____ Time Thursday, June 30.
3. Its rotations can be slowed by strong winds that _____ large groups of mountains, such as the Andes in South America and the _____ Mountains in western United States.
4. They can shake the whole _____.
5. In 1972 special _____ clocks became the _____ international time-keeper.
6. Because the leap second must be _____ at exactly the _____ moment, _____ did not _____ the official clocks.
7. Only the computer and the officials who _____ about time could _____ the extra second.

II. Answer the following questions with words of your own.

1. Why was it necessary to add one second to clocks?
2. What are the two reasons of the slowed rotation of the earth, mentioned in the program?
3. Why is one second important to pilots of planes and ships?
4. How much time has been added since 1972?
5. Where was the clock added one second in the United States?

VOA DEVELOPMENT REPORT

The Bioprocess Challenge

I. Fill in the blanks words from what you hear.

1. Scientists have one _____ question after they complete a _____ experiment: did it work?
2. _____ researchers at Perdue University are working with _____ that use new technologies to change plants and other _____ things.
3. What happens if a _____ is taken from a peanut and _____ inside lettuce plants?
4. Will the lettuce _____ the peanut _____ that person the same way?
5. Fresh food, such as _____ and _____, are not required to have any such

6. Four years ago, the American government had _____ the use of a special enzyme in the production of some kinds of _____.
7. Cyclodextrane can be used to make a very _____ covering for drugs, chemicals and _____ some foods, such as garlic.

II. Answer the following questions with words of your own.

1. Why is the question "how did it work" not enough for scientists to answer?
2. What must be shown clearly of the prepared foods in American stores?
3. What are the two prohibitions of the Jewish law mentioned in the report?
4. Why does the new cheese contradict with the Jewish law?
5. How did the Jewish leaders settle the matter?
6. What is Mr. Tao trying to do?
7. What is Mr. Tao's major concern?

VOA SCIENCE IN THE NEWS

Looks and Wages

I. Fill in the blanks words from what you hear.

1. _____ a good education may be considered an _____ way to compete equally with others.
2. A doctor and an _____ carried out the _____.
3. Their study appeared in a recent publication of the _____.
4. The study showed that women who were _____ when they were _____ years old _____ at least 7% less than people that same age who _____ not fat.
5. Instead, it showed that _____ was very important to a man's _____.

II. Answer the following questions.

1. What is the discovery of the new study carried out at Dougmurst College?
2. How many people were included in the study?
3. What is the average age of the people studied?
4. What are the two possible reasons of their unfair treatment?
5. What is the growing or lessening rate of wage percentage concerning the height of men?

VOA DEVELOPMENT REPORT

A Major Study of Heart Disease

I. Fill in the blanks missing words from what you hear.

1. Some experts say it is the most _____ study of heart-disease study _____ done.
2. Men and women, _____ 35 to _____, suffered the heart _____.
3. Hugh Constilepedo wrote a report about the study, that _____ in the publication "_____". He _____ a Monica study group in Dendise, Scotland.
4. Researchers want to know if _____ conditions or _____ of medical care make a difference.
5. It also shows that doctors _____ heart disease in _____ they do in women.
6. Mr. Constilepedo says that the study has shown _____ differences in _____ use, high blood _____ and blood cholesterol levels in different groups of people.
7. He says the study _____ can be used to _____ heart-disease _____ programs around the world.

II. Answer the following questions with words of your own.

1. How many patients of heart disease are included in the study?
2. What is the use of the year 1985 and the year 1987 mentioned in the report?
3. How many people in how many countries are involved in the latest study?

4. What is the purpose of the study?
5. What are some of the results of the study?
6. What will the researchers do in the following four years?

VOA ENVIRONMENT REPORT

Bird Count

I. Fill in the blanks missing words from what you hear.

1. Every summer, the United States _____ Department _____ information about the birds of _____ America.
2. The _____ study has been carried out since _____.
3. All the bird watchers follow a _____ method of _____ observations.
4. Each bird watcher stops about _____ to count all the birds _____ or seen in an about 40-kilometre-long area.
5. The _____ of the study is to see what _____ land use changes and the destruction of natural areas are _____ on North American birds.
6. Other kinds of birds have suffered _____ losses because their winter homes in _____ rain forests are being destroyed.

II. Answer the following questions.

1. Why should the bird-count be carried out in the month of June?
2. What is the method used by all the bird watchers?
3. Why are the observation areas not near the busy roads?
4. What do the organizers of the movement say about the work?
5. What is the special requirement of the bird watchers?
6. In what areas are the birds decreasing?
7. In what areas are the birds increasing?
8. List at least two of the reasons why birds are decreasing.

How To Apply American Universities

Today we will emphasize the importance of taking notes. You will have to fill in each blank space the key words for you to organize your answers to the possible questions the teacher will ask. Be sure that you find the right words or phrases.

1. In the earlier discussion about how you should begin your search, you have been required to:
 - a. _____ or, _____
 - b. _____
2. The number of schools you should apply to: _____
3. The first step: _____
4. Items that should be included in your own letter:
 - a. the two precautions:
 - (1) _____
 - (2) _____
 - b. _____
 - c. _____
 - d. _____
 - e. _____
 - f. _____
5. After you send out the letter, you will receive an answer.
Type A: _____
Type B: _____
6. The letter may ask you about:
 - a. _____
 - b. _____
 - c. _____
 - d. _____
7. The symbol of your good chance of being admitted: _____