

BARRON'S SAT II 生物_{E/M}

Subject Test Biology E/M With CD-ROM

Deborah T. Goldberg, M.S.

考点透析 专题复习
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四篇全真试题配有答案和详解

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SAT BIOLOGY CD-ROM Minimum Requirements

The following documentation applies to the *SAT Subject Test Biology E/M* book with CD-ROM. Please disregard this information if your version does not contain the CD-ROM available in September 2007.

Documentation

MINIMUM HARDWARE REQUIREMENTS

The program will run on a PC with

1. Intel Pentium® 166 MHz or equivalent processor
2. 32 MB RAM
3. MS Windows® 95/98/NT/2000/ XP
4. SVGA (256 Colors) Monitor
5. 8X CD-ROM drive
6. Keyboard, Mouse

The program will run on a Macintosh® with

1. PowerPC 8600
2. Operating System 9.0 (or higher)
3. 32 MB RAM
4. SVGA (256 Colors) Monitor
5. 8X CD-ROM drive
6. Keyboard, Mouse

LAUNCHING THE APPLICATION

Barron's SAT Biology CD-ROM includes an "autorun" feature that automatically launches the application when the CD is inserted into the CD drive. In the unlikely event that the autorun features are disabled, alternate launching instructions are provided below.

Launching instructions for the PC

Windows® 95/98/NT/2000/XP:

1. Put the Barron's SAT Biology CD-ROM into the CD-ROM drive.
2. Click on the Start button and choose Run.
3. Type *D:\SATBiology.EXE* (assuming the CD is in drive D), then click OK.


Launching instructions for Macintosh®

1. Put the Barron's SAT Biology CD-ROM into the CD-ROM drive.
2. Double-click the SAT Biology Installer icon.
3. Follow the onscreen instructions.

Why Should I Buy This Book?

我为什么要买这本书？

This book includes:

- Extensive subject reviews of every topic required for the Biology SAT, including the most current information about the three-domain system of taxonomy
- One mini-diagnostic test that identifies your strengths and weaknesses
- Two full-length practice tests with questions that mimic the actual SAT Biology test
- Instructions that enable you to calculate your 200 to 800 SAT score
- Over 400 additional practice questions in the subject reviews
- Several questions that are more difficult than the ones appearing on the actual SAT exam as an additional and optional challenge. These are identified with .

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WHAT YOU NEED TO KNOW ABOUT THE
SAT SUBJECT TEST: BIOLOGY E/M
关于SAT II生物E/M，你须要知道什么

The Basics 第一章 基础知识

CHAPTER

1

WHAT IS THE PURPOSE OF THE TEST? 考试考查什么？

The Biology Subject Test measures your knowledge after completing a general college-preparatory high school Biology course. It is independent of any particular textbook or biology course you may have taken. SAT subject tests are required by many colleges you may decide to apply to.

The SAT Subject Tests fall into five subject areas:

TABLE 1.1

SAT Subject Tests

Subject Area	Test Title
English	Literature
History and Social Studies	US History World History
Mathematics	Math Level 1 Math Level 2
Science	Biology E/M Chemistry Physics
Languages	Chinese with Listening French French with Listening German German with Listening Italian Japanese with Listening Korean with Listening Latin Modern Hebrew Spanish Spanish with Listening

WHEN DO I TAKE THE TEST? 何时参加考试?

Take the test right after the course ends, when the content is still fresh in your mind. That would be in May or June for most of you. Tests are given in October, November, December, January, May, and June.

HOW DO I REGISTER FOR THE TEST? 如何报名?

You may register by using registration forms found inside the *SAT Registration Bulletin* that is available from your high school Guidance Office.

You can also send for a copy of the *SAT Registration Bulletin* by contacting:

College Board SAT Program
P.O. Box 6200
Princeton, NJ 08541-6299

You can also register for the SAT Subject Test online by visiting the College Board's web site at www.collegeboard.com.

You may register by telephone only if you have previously registered with ETS (Educational Testing Service). See their web site for the current telephone number.

When you register, you will have to indicate which specific subject tests you plan to take. **You may take one, two, or three on any given testing date.** Your testing fee will vary accordingly.

You may change your mind on the day of the test and select any test offered and available that day, except for the Language Test with Listening, for which you must preregister.

WHAT IS THE FORMAT OF THE TEST? 什么样的考试形式?

The Biology E/M Test has two parts: 60 core questions followed by 20 questions in either specialized section—ecology (E) or molecular (M). Every student answers 80 questions—60 core questions plus 20 special section questions. You choose the area in biology for which you feel most prepared.

There are 5 major content areas on the test. Both tests include questions on all 5 topics. However, the E test has more questions about ecology, while the M test has more questions about molecular and cell biology.

The skills and knowledge that you will be tested on include:

1. **Recall.** Knowledge of facts and terminology
2. **Application.** Understanding concepts, applying knowledge to practical situations, and solving problems
3. **Interpretation.** Integrating information to form conclusions

The metric system is used on this test.

WHICH TEST SHOULD I TAKE? 我应该参加哪种考试?

If you feel more comfortable answering questions about populations and community systems, and interpreting data about ecosystems, choose the Biology-E exam. If you feel that you would do better answering questions about cell structure and interpreting data about enzymes and other molecules, take the Biology-M test. If you are unsure about which one you should take, discuss it with your biology teacher.

You may decide on the day of the test which test you will take. Because the two tests contain common core questions, you may not take both exams on the same day. You must pencil in the appropriate grid for the test you wish, either Biology-E or Biology-M.

Table 1.2 lists the topics covered on each test. It also indicates the percentage of each topic on the E (ecology) and M (molecular) tests.

TABLE 1.2

Comparison of Biology-E and Biology-M

Core Topics	Approximate Percent of E Test	Approximate Percent of M Test
Cell and molecular biology Cell structure and organization, mitosis, photosynthesis cell respiration, enzymes, molecular inheritance, and biochemistry	15	27
Ecology Energy flow and nutrient cycles, populations and communities, ecosystems and biomes	23	13
Classical genetics Meiosis, Mendelian genetics, inheritance patterns	15	20
Organismal biology Structure, function, and development of organisms with emphasis on plants and animals; animal behavior	25	25
Evolution and diversity Origin of life, evidence of evolution, natural selection, patterns of evolution, taxonomy (classification)	22	15

HOW IS THE TEST SCORED? 考试的评分标准是什么?

The test is scored on a scale of 200 to 800, just like the SAT Test. You earn one point for each correct answer. You lose $\frac{1}{4}$ of a point for each wrong answer. Questions you omit are simply not counted and neither are questions for which you mark more than one answer.

You are penalized more for a wrong answer than you are for leaving an answer blank. Your raw score is converted to a scaled score that is reported to you and to any colleges you specify.

After each practice test in this book, you will be directed to grade your own test the same way that the College Board will grade your test.

WHAT IS A GOOD SCORE? 怎样才算是好的成绩?

A score of 800 is fabulous, and a 750 is great. However, earning a great score will not necessarily ensure that you get into the college of your dreams. Scoring a 600 does not necessarily mean that you will be barred from your favorite school. Many factors go into college admissions. The SAT Subject Test is simply one factor.