



GRE Biochemistry, Cell and Molecular Biology w/CD-ROM - The Best Test Prep (GRE Test Preparation)

By Thomas E. Smith, Marguerite Wilton Coomes

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- 2 full-length practice tests on CD-ROM
- Timed testing and instant and accurate scoring
- Complete explanations to all answers

DETAILS

- Perfect for solo study
- In-depth subject reviews
- 2 practice exams covering all topics appearing on the GRE test. All exam answers are fully explained.
- Packed with proven strategies and test-taking techniques that get you ready for test day
- Reference list details relevant sources for further study.

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Editorial Review

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ABOUT THIS BOOK

This book provides you with an accurate and complete representation of the GRE Biochemistry, Cell and Molecular Biology Subject Test. REA's two full-length practice tests are based on the latest editions of the exam. Our subject reviews are designed to prepare you for the very kind of material you are most likely to encounter when taking the actual test. Our sample tests have been carefully calibrated to match the GRE Biochemistry, Cell and Molecular Biology Subject Test's level of difficulty, its format, and, of course, the type and proportional representation of its content. Following each practice test you will find an answer key along with detailed step-by-step explanations designed to help you master the relevant material and score high.

ABOUT REA'S TEST EXPERTS

To aid us in meeting our objective of providing you with the best possible study guide for the GRE Biochemistry, Cell and Molecular Biology Test, REA's test experts have carefully prepared our topical reviews and practice exams. Our authors come armed with specific knowledge of the GRE Biochemistry, Cell and Molecular Biology Test. They have thoroughly examined and researched the mechanics of the GRE Biochemistry, Cell and Molecular Biology Test to ensure that our model tests accurately depict the exam and appropriately challenge the student. Our experts are highly regarded in the educational community. They have taught and conducted scientific research at competitive institutions. They have an in-depth knowledge of the subjects presented in the book and provide accurate questions that will put you in a position to do your very best on the exam.

ABOUT THE TEST

The GRE Biochemistry, Cell and Molecular Biology Test is taken by students applying to graduate programs in biochemistry. Most programs require that applicants submit scores for both the GRE General Test and the GRE Biochemistry, Cell and Molecular Biology Test; together with other undergraduate records, they are part of the highly competitive admission process to graduate school. Both tests are offered by Educational Testing Service (ETS) and administered throughout the United States and abroad. You can obtain a test registration booklet from your college or by contacting ETS directly. To determine if you should take the GRE Biochemistry, Cell and Molecular Biology Test, contact the universities you are applying to for admission. For questions pertaining to GRE Biochemistry, Cell and Molecular Biology policies, contact:

Graduate Record Examinations

Educational Testing Service

P.O. Box 6000

Princeton, NJ 08541-6000

Phone: (866) 473-4373

Fax: 1-610-290-8975

Website: www.gre.org

SSD ACCOMMODATIONS FOR STUDENTS WITH DISABILITIES

Many students qualify for extra time to take the GRE Biochemistry, Cell and Molecular Biology Test. For information on how ETS meets disability needs, contact:

ETS Disability Services
Educational Testing Service
P.O. Box 6054
Princeton, NJ 08541–6054
Phone: 1-866-387-8602 (toll free)
Monday–Friday 8:30 a.m. to 5:00 p.m.
Eastern Time (New York)
TTY: 1-609-771-7714
Fax: 1-973-735-1892
E-mail: stassd@ets.org

FORMAT OF THE GRE BIOCHEMISTRY, CELL AND MOLECULAR BIOLOGY TEST

The test is usually given three times a year and contains approximately 180 multiple-choice questions, which you must answer in 2 hours and 50 minutes. Each of the 180 questions is worth one point. There is a penalty for wrong answers, which serves to correct for “guessing.” For each wrong answer, one-quarter of a point is deducted from your score. Unanswered questions don’t count for or against you.

ABOUT THE REVIEW

REA’s targeted subject review concisely and systematically summarizes the main areas tested on the GRE Biochemistry, Cell and Molecular Biology Test. We have prepared it to help you better grasp concepts that your textbook explores in far greater detail.

THE GRE BIOCHEMISTRY, CELL AND MOLECULAR BIOLOGY SUBJECT TEST AT A GLANCE

Subject	Percent
Biochemistry:	36%
Chemical and Physical Foundations	
Biomolecules: Structure, Assembly, Organization, and Dynamics	
Catalysis and Binding	
Major Metabolic Pathways	
Bioenergetics (Including Respiration and Photosynthesis)	
Regulation and Integration of Metabolism	
Methodology	
Cell Biology:	28%
Cellular Compartments of Prokaryotes and Eukaryotes:	
Organization, Dynamics, and Functions	
Cell Surface and Communication	

Cytoskeleton, Motility, and Shape Actin-Based Systems
(Including Muscle Contraction)
Protein Synthesis and Processing
Cell Division, Differentiation, and Development

Molecular Biology and Genetics:	36%
Genetic Foundations	
Chromatin and Chromosomes	
Genomics	
Genome Maintenance	
Gene Expression	
Gene Regulation in Prokaryotes	
Gene Regulation in Eukaryotes	
Bacteriophages and Animal and Plant Viruses	
Methodology	

By studying our review, your chances of scoring well on the actual exam will be greatly increased. It affords you a kind of master checklist for everything you need to know. After thoroughly studying the material presented in the review, you should go on to take the practice tests. Used in combination, the review and practice tests will enhance your test-taking skills and give you the confidence needed to obtain a high score.

HOW TO PREPARE FOR THE GRE BIOCHEMISTRY, CELL AND MOLECULAR BIOLOGY TEST

“Don’t worry.” Easier said than done, but rest assured that this book will help you assess yourself as well as the test. As with other GRE subject tests, the GRE Biochemistry, Cell and Molecular Biology Test gauges knowledge that you have gained throughout your academic career. Most of what’s tested on the GRE Biochemistry, Cell and Molecular Biology Test will require you to make use of information you learned in your General Biochemistry courses in college.

We at REA believe the best way to prep for the GRE Biochemistry, Cell and Molecular Biology Test is to replicate the complete GRE test-taking experience. Toward that end, we provide two full-length exams that accurately reflect this subject test in terms of format, content, and degree of difficulty. Our practice exams mirror the latest GRE Biochemistry, Cell and Molecular Biology Test forms and include every type of question that you can expect to encounter when you take the exam. Following each of our practice exams is an answer key complete with detailed explanations and solutions. Designed specifically to clarify the material for the student, the explanations not only provide the correct answers, but also explain why the answer to a particular question is indeed the best choice. By completing both practice exams and studying the explanations that follow, you will isolate your strengths and weaknesses. This, in turn, will enable you to concentrate on attacking the sections of the exam you find to be toughest.

Participate in Study Groups

As a final word on how to study for this test, you may want to study with others. This will allow you to share knowledge and obtain feedback from other members of your study group. Study groups may make preparing for the exam more enjoyable.

SCORING THE TEST

Each correct response on both our practice tests and the actual exam earn you one “raw score” point, while each incorrect answer results in a 1/4-point deduction; omitted responses are not counted. Here is a formula for calculating your raw score:

$$\frac{\text{_____}}{\text{\# of questions correct}} - \left(\frac{\text{_____}}{\text{\# of questions incorrect}} \times \frac{1}{4} \right) = \text{_____}$$

Now use the Conversion Chart on the next page to determine your scaled score range.

Scoring Worksheet

	Raw Score	Scaled Score
Practice Exam 1	_____	_____
Practice Exam 2	_____	_____

YOUR PRACTICE TEST

SCORE CONVERSION CHART

ETS administers three different editions of the GRE Biochemistry, Cell and Molecular Biology Test; therefore, a range of raw scores is associated with your scaled score.

Raw Score	Scaled Score
162–180	800–860
131–161	700–790
101–130	600–690
70–100	500–590
39–69	400–490

REA’s practice tests emulate every content and formatting aspect of the actual test. Your performance on our practice tests will, of course, only approximate your score on the actual GRE Biochemistry, Cell and Molecular Biology Test, because ETS uses a computerized statistical formula to weight performance.

TEST-TAKING STRATEGIES

Although you will probably have to take both the GRE General Test and the GRE Biochemistry, Cell and Molecular Biology Subject Test, try to avoid taking them on the same day. Taking any test is stressful, and after sitting for one extremely long standardized test, you will hardly be at your best for a second.

Be sure to register for testing dates several months before the due date to ensure that the graduate schools you designate will receive your scores by the application deadlines. Most schools will not consider an incomplete application. Because the test is not divided into sections, you are completely responsible for budgeting your own time. All the questions are worth the same number of points, so you should not spend too much time on any one item. The GRE Biochemistry, Cell and Molecular Biology Test attempts to cover a broad range of topics. It is unlikely that you will have complete knowledge of all of them. It is important that you do not spend too much time on questions you find difficult at the expense of working on those that are easier for you.

The time constraints are such that, on average, a little less than a minute is allotted for each question. Thus, it is unlikely that you will have time to answer all 180 questions; however, you can still receive an excellent score without answering all of them. Because the questions are in no particular order, we recommend making a complete sweep through all the questions on the test. Answer the ones that are immediately easy for you and mark those that you want to revisit. Once you have answered all of the easier questions, you can use the remaining time to go back through the test and work on the harder questions, which require a greater amount of your time. In this way, you will ensure that you have the chance to answer all the questions you are likely to get correct, instead of spending valuable time on difficult questions near the beginning of the test and leaving easy questions at the end of the test unanswered.

The penalty for wrong answers should not deter you completely from guessing. If you have no clue what the answer might be, by all means press on. However, if you can eliminate one or two of the five choices, it is to your advantage to make an educated guess. Statistically, guessing randomly among the five choices would give you the possibility of guessing correctly 1/5 of the time. (This is what the quarter-point deduction for wrong answers is designed to balance.) Being able to eliminate three of the choices as wrong answers means that guessing between the two remaining choices would give you a far better chance of being correct.

THE DAY OF THE TEST

On the day of the test, you should wake up early (after a decent night's rest, we hope) and enjoy a good breakfast. Make sure you dress comfortably—in layers—so that you are not distracted by being too hot or too cold while taking the exam. You should plan on arriving at the test center early. Doing so will spare you the needless anxiety that comes from racing the clock. It will also allow you to collect your thoughts, focus, and actually relax before taking the exam.

Before you leave for the test center, make sure that you have two forms of identification. You will not be admitted to the test center without proper identification. Acceptable forms of identification include a driver's license, Social Security card, birth certificate, passport, and green card.

Make sure you bring at least two sharpened No. 2 pencils, with erasers, to the exam. You may want to wear a watch to the test center; however, only ordinary watches will be permitted. Watches with alarms, calculator functions, flashing lights, beeping sounds, etc., will not be allowed. In addition, neither food nor calculators will be allowed into the examination room.

DURING THE TEST

When you arrive at the test center, try to sit in a seat where you feel you will be comfortable. No breaks are given during the exam. If you need to use the rest room, or if you become ill, you may leave the examination room, but you will not be allowed to make up any lost time.

Once you enter the test center, follow all of the rules and instructions given by the test supervisor. If you do not, you risk being dismissed from the examination or having your GRE Biochemistry, Cell and Molecular Biology scores voided, meaning that they will not be scored.

When all of the test materials have been distributed, the test instructor will give you directions for filling out your answer sheet. You must complete this sheet carefully since the information on it will be printed on your score report. Write your name exactly as it appears on your identification documents and admission ticket,

unless otherwise instructed.

Make sure you do not write in your test booklet or on your answer sheet, except to fill in the oval corresponding to the answer you choose. Scratch paper will be provided. You will be marking your answers on side two of your answer sheet. Each numbered row will contain five ovals corresponding to each answer choice for that question. Fill in the oval corresponding to your answer darkly, completely, and neatly. You can change your answer, but remember to completely erase your old answer. Only one answer should be marked. This is very important, as your answer sheet will be machine scored, and stray lines or unnecessary marks may cause the machine to score your answers incorrectly.

Work only on the test section on which the test instructor has instructed you to proceed. You should begin only when instructed to do so, and stop immediately when instructed to stop. Do not turn to the next section of the test until you are told to do so. When all of the sections have been completed, you should remain seated until all of the test materials have been collected.

Good luck on the GRE Biochemistry,
Cell and Molecular Biology Subject Test!

Users Review

From reader reviews:

Brandon Riddle:

Do you have favorite book? For those who have, what is your favorite's book? Guide is very important thing for us to understand everything in the world. Each book has different aim or perhaps goal; it means that book has different type. Some people really feel enjoy to spend their time and energy to read a book. They can be reading whatever they take because their hobby is definitely reading a book. Why not the person who don't like looking at a book? Sometime, person feel need book when they found difficult problem or even exercise. Well, probably you should have this GRE Biochemistry, Cell and Molecular Biology w/CD-ROM - The Best Test Prep (GRE Test Preparation).

Mohammed Thomas:

Have you spare time for just a day? What do you do when you have much more or little spare time? Yes, you can choose the suitable activity with regard to spend your time. Any person spent their particular spare time to take a walk, shopping, or went to typically the Mall. How about open or even read a book eligible GRE Biochemistry, Cell and Molecular Biology w/CD-ROM - The Best Test Prep (GRE Test Preparation)? Maybe it is being best activity for you. You already know beside you can spend your time using your favorite's book, you can smarter than before. Do you agree with its opinion or you have some other opinion?

Valerie Garrison:

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Patricia Morales:

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