

BACE

Biotechnician
Assistant
Credentialing
Exam

AY 23-24

PPT

EXAM SPECIFICATIONS FOR PAPER & PENCIL TESTING

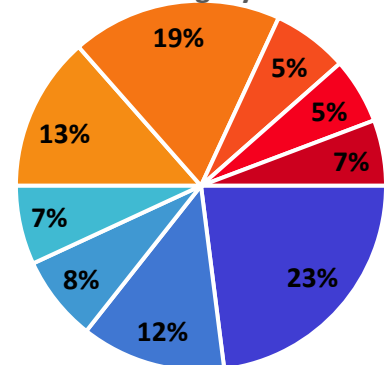
The Biotechnician Assistant Credentialing Exam (BACE) consists of both a Practical and Knowledge portion. Candidates take both portions, which cover nine categories, in one session. Candidates must score 80% or above to pass the BACE. Candidates may take the BACE a maximum of three times within a year, with a 20-day waiting period between attempts. **The Paper and Pencil Testing Option must be administered at an Exam Site with live proctors.** The exam is taken in a science lab.

The following descriptions for each portion include the total questions per portion, categories covered, questions per category, points per category, and total points per portion. **The exam is closed book with a duration of 4 hours.**

BACE Knowledge Portion		
Category	Questions	Points
General Topics in Biotechnology	16	21
Technical Skills & Applications	22	31
Biochemistry/Chemistry	9	9
Biological Systems	8	9
Workplace Safety & Behavior	9	12
Total	64	82

BACE Practical Portion		
Category	Questions	Points
Biotechnology Skills	17	38
Applied Mathematics	11	19
Laboratory Equipment	8	13
Research & Scientific Method	9	12
Total	48	82

Distribution of Points per Category



- General Topics in Biotechnology
- Technical Skills & Applications
- Biochemistry/Chemistry
- Biological Systems
- Workplace Safety & Behavior
- Biotechnology Skills
- Applied Mathematics
- Laboratory Equipment
- Research & Scientific Method

The following are suggested study references:

- Brown, J. Kirk. Biotechnology: A Laboratory Skills Course (Second Ed.). Hercules, CA: Bio-Rad Laboratories, Inc., 2018.
- Daugherty, Elyn. Biotechnology: Laboratory Manual (Second Ed.). St. Paul, MN: Paradigm Publishing, Inc., 2017.
- Daugherty, Elyn. Biotechnology: Science for the New Millennium (Second Ed.). St. Paul, MN: Paradigm Publishing, Inc., 2017.
- Seidman, Lisa. Basic Laboratory Methods for Biotechnology: Textbook and Laboratory Reference (Third Ed.). Boca Raton, FL: CRC Press, 2021.