

# BACHELOR OF BUSINESS AND ECONOMICS (BBE) ENTRANCE – MATH PRACTICE TEST (SAMPLE)

## STUDY GUIDE



## SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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# Table of Contents

|                             |    |
|-----------------------------|----|
| Copyright .....             | 1  |
| Table of Contents .....     | 2  |
| Introduction .....          | 3  |
| How to Use This Guide ..... | 4  |
| Questions .....             | 5  |
| Answers .....               | 8  |
| Explanations .....          | 10 |
| Next Steps .....            | 15 |

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# Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

# How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

## 1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

## 2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

## 3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

## 4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

## 5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

## 6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

## Questions

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- 1. In a polynomial, what term refers to the quantity computed from the coefficients that gives information about the roots?**
  - A. A function of the coefficients of a polynomial equation whose value gives information about the roots of the polynomial.
  - B. The possible value of  $y$ .
  - C. The range.
  - D. A parallelogram with 4 right angles.
- 2. What term describes the direction opposite to the movement of the clock's hands?**
  - A. Counterclockwise
  - B. Clockwise
  - C. Horizontal
  - D. Vertical
- 3. Which verb means to inform someone?**
  - A. Acquisition
  - B. Apprise
  - C. Specifically
  - D. Impatient
- 4. A term describing the degree two term in a polynomial.**
  - A. Linear term
  - B. Fraction
  - C. Quadratic term
  - D. Constant term
- 5. A mathematical sentence that contains an equals sign.**
  - A. Equation
  - B. Fraction
  - C. Pattern
  - D. Recurring

**6. Which verb means to communicate?**

- A. Transmit
- B. Convey
- C. Announce
- D. Speak

**7. Which word means opposed or unwilling?**

- A. Impatient
- B. Specifically
- C. Adverse
- D. Averse to

**8. Which phrase means to adapt to suit specific requirements?**

- A. To customize
- B. To tailor to
- C. To standardize
- D. To generalize

**9. Which term describes the opposite of a shortage?**

- A. Shortage
- B. Decay
- C. Nuptials
- D. Surplus

**10. Which term describes something that is absolutely necessary?**

- A. Optional
- B. Nonessential
- C. Peripheral
- D. Indispensable

## **Answers**

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1. A
2. A
3. B
4. C
5. A
6. B
7. D
8. B
9. D
10. D

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## **Explanations**

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1. In a polynomial, what term refers to the quantity computed from the coefficients that gives information about the roots?

A. A function of the coefficients of a polynomial equation whose value gives information about the roots of the polynomial.

B. The possible value of  $y$ .

C. The range.

D. A parallelogram with 4 right angles.

*The discriminant is the quantity you're looking for. It is a function of the polynomial's coefficients that tells you about the roots' nature. For a quadratic with coefficients  $a$ ,  $b$ , and  $c$ , the discriminant is  $b^2 - 4ac$ . Its value flags what the roots look like: if it's positive, you have two distinct real roots; if it's zero, the roots are real and equal (a repeating root); if it's negative, the roots are complex conjugates. More generally, the discriminant is a polynomial in the coefficients that vanishes exactly when the polynomial has a multiple root, so its value gives information about the roots' existence and multiplicity. The other options don't relate to roots in this way—the possible value of  $y$  is just an outcome, the range concerns outputs, and a parallelogram with four right angles is a rectangle, not about polynomial roots.*

2. What term describes the direction opposite to the movement of the clock's hands?

A. Counterclockwise

B. Clockwise

C. Horizontal

D. Vertical

*The direction opposite to the movement of the clock's hands describes rotational direction, not orientation. A clock's hands travel in a clockwise path, from the top toward the right, then downward and left, and back up. The opposite rotation is counterclockwise (also called anti-clockwise), which would move from the top toward the left and around the face in the opposite sense. Horizontal and vertical refer to flat orientation (left-right or up-down), not to the way something rotates. So the term that describes the opposite direction is counterclockwise.*

3. Which verb means to inform someone?

A. Acquisition

B. Apprise

C. Specifically

D. Impatient

*Choosing a verb that means to inform someone. Apprise means to inform or notify someone about something. It's a formal verb you'll see in more official or written contexts, and a good direct replacement for "inform." For example, you might say, "I will apprise you of any changes to the schedule." The other options don't fit because acquisition is a noun referring to obtaining something, not a verb that means inform. Specifically is an adverb used to describe details or precision, not a verb. Impatient is an adjective describing someone who is not patient, not a verb. So apprise is the word that directly matches the meaning of informing someone.*

#### 4. A term describing the degree two term in a polynomial.

- A. Linear term
- B. Fraction
- C. Quadratic term
- D. Constant term

*In a polynomial, each term has a degree equal to the exponent of the variable in that term. A degree two term is the one where the variable is squared, like  $x^2$ . This is called a quadratic term. For example,  $3x^2$  or  $-2x^2$  are quadratic terms. A term with a single  $x$  has degree one and is called linear, while a constant term has degree zero and stands alone without a variable. A fraction isn't a degree descriptor for a polynomial term.*

#### 5. A mathematical sentence that contains an equals sign.

- A. Equation
- B. Fraction
- C. Pattern
- D. Recurring

*An equation is a mathematical sentence that asserts the equality of two expressions. The key is the equals sign, which links a left-hand side and a right-hand side that are considered to have the same value. For example,  $3 + 4 = 7$  demonstrates that the sum on the left equals the value on the right. Equations can also involve unknowns, like  $x + 2 = 5$ , where solving finds the value of  $x$  that makes both sides equal. A fraction is an expression of division written with a slash, such as  $5/3$ , and it represents a single quantity rather than a statement that two sides are equal. A pattern describes a repeated arrangement or sequence, not an assertion about equality. Recurring refers to something that repeats over time or in a sequence, also not an equality statement.*

#### 6. Which verb means to communicate?

- A. Transmit
- B. Convey
- C. Announce
- D. Speak

*Communicating means getting the intended meaning, information, or feeling from one person to another. The best verb for that sense is convey. When you say you convey a message, you're focusing on carrying the content and meaning across to the receiver, not just producing words or sending something through a channel. It captures both the idea being transmitted and that someone else understands it. Transmitting tends to be used for signals, data, or energy moving through a channel, often in technical contexts, and doesn't center on the meaning as much. Announcing is about making something publicly known, usually in a formal or official way, rather than transferring a message to someone who understands its content. Speaking describes the act of uttering words, but it doesn't inherently emphasize that the ownership of meaning is successfully conveyed to others. So, convey fits best because it directly expresses the transfer of meaning or information from one party to another, which is the essence of communicating.*

## 7. Which word means opposed or unwilling?

- A. Impatient
- B. Specifically
- C. Adverse
- D. Averse to**

Think about expressing opposition or reluctance. When someone doesn't want to do something and tends to oppose it, we describe that feeling as being averse to it. The phrase averse to is used after to, like "averse to trying new foods" or "averse to risk," to show this opposing stance. That direct sense of opposition is why this option fits best for "opposed or unwilling." Impatient refers to not wanting to wait, which isn't about opposition to an action. Specifically means in a precise way, which has nothing to do with opposition. Adverse describes something harmful or unfavorable and is usually about external conditions, not a person's disposition toward doing something. So the phrase that exactly conveys opposition or unwillingness is averse to.

## 8. Which phrase means to adapt to suit specific requirements?

- A. To customize
- B. To tailor to**
- C. To standardize
- D. To generalize

The idea being tested is fitting something to meet specific requirements. "To tailor to" conveys that exact fit best: it means adjusting or shaping something to suit the particular needs, constraints, or preferences of a situation or person. For example, you might tailor a report to a client's goals or tailor a training plan to a team's capabilities, ensuring it aligns with those precise requirements. Other options don't fit as well. Standardize aims to make things uniform, removing individual differences. Generalize means applying a broad rule to many cases, which ignores specific needs. Customize is close—modifying things to suit preferences—but tailoring to specifically fit particular requirements emphasizes the precise fit to those needs.

## 9. Which term describes the opposite of a shortage?

- A. Shortage
- B. Decay
- C. Nuptials
- D. Surplus**

A shortage means demand exceeds supply at the current price. The opposite situation is a surplus, where there is more of the good available than buyers want at that price. Surpluses occur when the price is too high relative to demand, and producers may lower prices or cut output to restore balance. The other terms don't fit here—decay refers to deterioration, and nuptials are weddings.

**10. Which term describes something that is absolutely necessary?**

- A. Optional
- B. Nonessential
- C. Peripheral
- D. Indispensable**

*When something is absolutely necessary, there's no substitute or alternative you can do without. That level of necessity is captured by the word indispensable. It signals that you cannot complete a task or function properly without it, making it essential and non-negotiable. Optional means you may choose, not required. Nonessential means not required. Peripheral suggests something on the edge or not central. Indispensable stands out because it conveys total necessity—something you truly cannot do without. For example, in many jobs, reliable data is indispensable for making sound decisions, and oxygen is indispensable for living.*

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## Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at [hello@examzify.com](mailto:hello@examzify.com).

Or visit your dedicated course page for more study tools and resources:

<https://bbeentrancemath.examzify.com>

We wish you the very best on your exam journey. You've got this!

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