

Medical College Admission Test (MCAT) Psychological, Social, and Biological Foundations of Behavior (Psych/Soc) Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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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. Which heuristic involves looking for the most representative answer based on prototypes?**
 - A. Availability heuristic**
 - B. Representativeness heuristic**
 - C. Functional fixedness**
 - D. Causation bias**

- 2. How does altruism impact inclusive fitness?**
 - A. It decreases inclusive fitness by focusing on individual survival**
 - B. It has no effect on inclusive fitness at all**
 - C. It can improve inclusive fitness through benefits conferred to others**
 - D. It operates independently of social behavior**

- 3. Which of the following defines ascribed status?**
 - A. A status determined by individual efforts and achievements**
 - B. A status assigned to a person regardless of their efforts**
 - C. A status that reflects social mobility**
 - D. A status based on personal merit**

- 4. Which cognitive developmental stage follows the preoperational stage in Piaget's theory?**
 - A. Sensorimotor**
 - B. Formal operational**
 - C. Concrete operational**
 - D. Egocentric operational**

- 5. Which level of Maslow's Hierarchy concerns emotional safety and security?**
 - A. Physiological needs**
 - B. Belongingness needs**
 - C. Safety needs**
 - D. Self-actualization needs**

- 6. What is the relationship between emotional states during memory retrieval and memory formation?**
- A. The emotional state has no effect on retrieval**
 - B. Similar emotional states enhance retrieval**
 - C. Different emotional states enhance retrieval**
 - D. Only negative emotions affect retrieval**
- 7. Which reinforcement schedule delivers rewards after an unpredictable number of responses?**
- A. Fixed-ratio reinforcement**
 - B. Variable-ratio reinforcement**
 - C. Fixed-interval reinforcement**
 - D. Variable-interval reinforcement**
- 8. Stimulants most commonly act by increasing which type of neurotransmitters?**
- A. Serotonin and norepinephrine**
 - B. Dopamine and epinephrine**
 - C. GABA and glutamate**
 - D. Acetylcholine and histamine**
- 9. What strategy involves reducing a new problem to a previously known problem to find a solution?**
- A. Trial and error**
 - B. Analogies**
 - C. Heuristics**
 - D. Intuition**
- 10. What does sensation refer to in a biological context?**
- A. The emotional response to stimuli**
 - B. The conversion of physical stimuli into electrical signals**
 - C. The cognitive interpretation of sensory information**
 - D. The conscious awareness of environmental changes**

Answers

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

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Explanations

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1. Which heuristic involves looking for the most representative answer based on prototypes?

- A. Availability heuristic
- B. Representativeness heuristic**
- C. Functional fixedness
- D. Causation bias

The representativeness heuristic involves making judgments about the probability of an event based on how similar it is to a prototype or a stereotype. This heuristic leads individuals to categorize situations or objects based on their similarity to existing mental representations or typical examples they hold. For instance, if someone encounters a new person who resembles the stereotype of a librarian—say, they wear glasses, are quiet, and have a book in hand—they may conclude that this person is indeed a librarian, despite lacking actual evidence of their profession. This cognitive shortcut often helps in quickly assessing situations, but it can also lead to errors if the prototype is not representative of the entire population. In contrast, the other options represent different cognitive phenomena: the availability heuristic refers to making decisions based on the information that comes readily to mind, functional fixedness is an obstacle to problem-solving where one cannot see an object being used in a different way, and causation bias involves incorrectly attributing a cause to an event based on preconceived notions. Understanding the representativeness heuristic is essential for recognizing how judgments are influenced by stereotypes and prototypes in everyday decision-making.

2. How does altruism impact inclusive fitness?

- A. It decreases inclusive fitness by focusing on individual survival
- B. It has no effect on inclusive fitness at all
- C. It can improve inclusive fitness through benefits conferred to others**
- D. It operates independently of social behavior

Altruism is a behavior that benefits others at a cost to oneself, and it can significantly affect inclusive fitness, which refers to the total genetic success of an individual, including both their direct reproduction and the reproduction of their genetic relatives. When an altruistic individual helps a relative or another member of their social group, they are promoting the survival and potential reproduction of those individuals, which in turn enhances the altruist's own genetic contribution to the next generation. This process is aligned with the concept of kin selection, where altruistic behaviors are favored because they help relatives who share a significant portion of the same genes. For instance, if an individual sacrifices their own chance of survival to save a sibling or close relative, they are potentially ensuring that some of their shared genes continue to be passed on through that relative. Such actions can improve overall inclusive fitness, as the benefits to relatives can offset the costs incurred by the altruistic act. In contrast, the other possible choices do not accurately reflect the relationship between altruism and inclusive fitness. The notion that altruism decreases inclusive fitness is inconsistent with the biological understanding that it can actually enhance genetic success through indirect means. The idea that altruism has no effect on inclusive fitness overlooks the significant implications altruistic behavior has

3. Which of the following defines ascribed status?

- A. A status determined by individual efforts and achievements
- B. A status assigned to a person regardless of their efforts**
- C. A status that reflects social mobility
- D. A status based on personal merit

Ascribed status is defined as a status that is assigned to an individual at birth or involuntarily later in life, without regard to the individual's abilities, efforts, or achievements. This type of status is often based on characteristics such as race, gender, age, or family background. It highlights how certain attributes may place individuals in particular social categories that affect their opportunities and interactions in society. The correctness of the selected answer reflects the core concept of ascribed status, distinguishing it from achieved status, which is based on personal merit, accomplishments, and efforts. This difference is crucial in understanding social structures and dynamics, as ascribed statuses can significantly influence an individual's life experiences and societal roles.

4. Which cognitive developmental stage follows the preoperational stage in Piaget's theory?

- A. Sensorimotor
- B. Formal operational
- C. Concrete operational**
- D. Egocentric operational

In Piaget's theory of cognitive development, the stage that follows the preoperational stage is the concrete operational stage. This stage typically occurs between the ages of 7 and 11 years and is characterized by the development of logical reasoning and a better understanding of the concept of conservation—recognizing that quantity does not change even when its shape does. Children in this stage begin to think more logically about concrete events and can perform operations on tangible objects, which helps them to understand classifications and relationships more effectively. During this period, children are still limited to dealing with concrete, tangible concepts, and abstract reasoning is not yet fully developed, which distinguishes it from the following stage, the formal operational stage. In contrast, the formal operational stage, which occurs after the concrete operational stage, involves the ability to think abstractly, logically, and systematically about hypothetical situations. The option referring to egocentric operational is not a recognized stage in Piaget's developmental theory and suggests a misunderstanding of the characteristics of the preoperational stage, which is itself marked by a certain degree of egocentrism where children have difficulty seeing things from perspectives other than their own. In summary, the concrete operational stage is a critical step in child development where logical thinking begins to flourish

5. Which level of Maslow's Hierarchy concerns emotional safety and security?

- A. Physiological needs**
- B. Belongingness needs**
- C. Safety needs**
- D. Self-actualization needs**

Maslow's Hierarchy of Needs is structured in a pyramid format, with various levels that represent different human motivations. The correct answer, focusing on emotional safety and security, falls within the category of safety needs. This level encompasses not only physical safety, such as shelter and health but also emotional aspects, which include security from emotional harm and fear. Individuals at this level seek stability and predictability in their lives, which are critical for overall well-being. The safety needs level is crucial as it provides a foundation upon which individuals can build higher-level needs, such as belongingness and esteem, which are pursued only once the basic need for safety is fulfilled. Understanding this principle is all about recognizing the importance of emotional security as part of the broader concept of safety in human motivation.

6. What is the relationship between emotional states during memory retrieval and memory formation?

- A. The emotional state has no effect on retrieval**
- B. Similar emotional states enhance retrieval**
- C. Different emotional states enhance retrieval**
- D. Only negative emotions affect retrieval**

The assertion that similar emotional states enhance retrieval is supported by the concept of state-dependent memory. This principle suggests that memory retrieval is more effective when an individual is in the same emotional state as they were during the encoding or formation of the memory. For instance, if a person learns information while feeling happy, they are more likely to recall that information when they are in a similar happy state. This phenomenon occurs because the emotional context acts as a retrieval cue, facilitating access to the stored memories. Research in psychology indicates that emotions can encode memories with an emotional framework, thereby enhancing our ability to retrieve these memories when in a corresponding emotional state. This is pertinent in contexts like eyewitness testimony and therapy, where emotions play a crucial role in recalling specific incidents or experiences. The other options do not capture the nuances of how emotional states interact with memory processes. One proposes that emotional states have no effect, which contradicts a robust body of research demonstrating the influence of emotions on recall. Another suggests that different emotional states enhance retrieval, which overlooks the essential role of congruency between emotional states during encoding and retrieval. Finally, the assertion that only negative emotions affect retrieval limits the broader understanding of emotional influences to a single category, ignoring the complexity of how both positive and negative emotions

7. Which reinforcement schedule delivers rewards after an unpredictable number of responses?

- A. Fixed-ratio reinforcement**
- B. Variable-ratio reinforcement**
- C. Fixed-interval reinforcement**
- D. Variable-interval reinforcement**

The correct answer is variable-ratio reinforcement, which is characterized by providing rewards after an unpredictable number of responses. This type of reinforcement schedule creates a situation where the reinforcement (or reward) is delivered after a variable number of behaviors, which means that the exact timing is not fixed. This unpredictability encourages continuous behavior, as the individual knows that a response might eventually result in a reward, but the number required to achieve that reward can vary significantly. For instance, gambling is a classic example of variable-ratio reinforcement. Players do not know when they will win, which keeps them engaged and playing, as they continue to respond with the hope that their next game will be the one that brings a reward. This leads to a high rate of responding because the reward can come after any number of attempts, creating a strong and persistent behavior pattern. In contrast, fixed-ratio reinforcement involves rewards after a set number of responses, which can lead to a pause in responding immediately after the reward is given. Fixed-interval reinforcement provides rewards after a specified time period, leading to a pattern of behavior that is more predictable and often less consistent. Variable-interval reinforcement, while also unpredictable, rewards responses after varying time intervals rather than varying amounts of behavior. Thus, variable

8. Stimulants most commonly act by increasing which type of neurotransmitters?

- A. Serotonin and norepinephrine**
- B. Dopamine and epinephrine**
- C. GABA and glutamate**
- D. Acetylcholine and histamine**

Stimulants are primarily known for their impact on the central nervous system by increasing the levels of certain neurotransmitters. The correct answer identifies dopamine and epinephrine as the neurotransmitters most commonly affected by stimulant drugs. Dopamine plays a crucial role in the brain's reward, motivation, and pleasure pathways. Many stimulants increase dopamine levels, leading to enhanced mood, increased alertness, and increased energy. This is why stimulants are often associated with feelings of euphoria and increased focus. Epinephrine, also known as adrenaline, is involved in the body's "fight or flight" response. Stimulants increase levels of epinephrine, causing physiological effects such as increased heart rate, heightened alertness, and improved physical performance. This combination of effects from high levels of dopamine and epinephrine contributes to the stimulating effects of these drugs. In contrast, the other neurotransmitters listed in the other choices are not the primary targets of typical stimulants. For instance, while serotonin does play a role in mood regulation, it is not predominantly increased by stimulant drugs. Similarly, GABA and glutamate are involved in inhibitory and excitatory processes, respectively, but are not primarily the focus of stimulant action. Acetylcholine

9. What strategy involves reducing a new problem to a previously known problem to find a solution?

- A. Trial and error
- B. Analogies**
- C. Heuristics
- D. Intuition

The strategy that involves reducing a new problem to a previously known problem in order to find a solution is known as using analogies. This approach relies on drawing comparisons between the new situation and one that has been successfully resolved in the past. By recognizing similarities between the two problems, an individual can leverage their previous experiences and insights to inform their decision-making for the current challenge. For example, if someone has previously solved a complex mathematical equation and is now faced with a different equation that shares structural similarities, they can apply the same methods that were effective in the past. This not only simplifies the new problem but also enhances the likelihood of arriving at a solution more efficiently. The use of analogies is a powerful cognitive tool in problem-solving because it allows individuals to tap into their existing knowledge base, facilitating creative thinking and innovative solutions. In contrast, trial and error involves attempting various solutions until one works, heuristics are mental shortcuts that simplify decision-making, and intuition is the ability to understand something instinctively without the need for conscious reasoning. Each of these approaches has its merits but does not specifically focus on the conservation of prior solutions through the lens of similarity as analogies do.

10. What does sensation refer to in a biological context?

- A. The emotional response to stimuli
- B. The conversion of physical stimuli into electrical signals**
- C. The cognitive interpretation of sensory information
- D. The conscious awareness of environmental changes

Sensation in a biological context refers specifically to the process of converting physical stimuli, such as light or sound, into electrical signals that can be processed by the nervous system. This conversion is essential for the brain to interpret sensory information, allowing organisms to detect changes in their environment. When sensory receptors, such as those in the eyes or ears, are stimulated, they generate neural impulses that travel through the nervous system to the brain, where they can be further interpreted and integrated. The other aspects mentioned pertain to different components of the sensory experience. The emotional response to stimuli is related to how individuals feel about sensory inputs, which is distinct from the basic process of sensation itself. The cognitive interpretation of sensory information involves how the brain makes sense of these electrical signals, an activity known as perception, which is separate from sensation. Lastly, conscious awareness of environmental changes refers to the recognition and understanding of sensory information, which also occurs after sensation and is part of the perception process. Thus, while all the choices relate to aspects of sensory experience, the correct option specifically describes the initial step of transforming physical stimuli into electrical signals.

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.

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

<https://mcat-psychsoc.examzify.com>

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

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