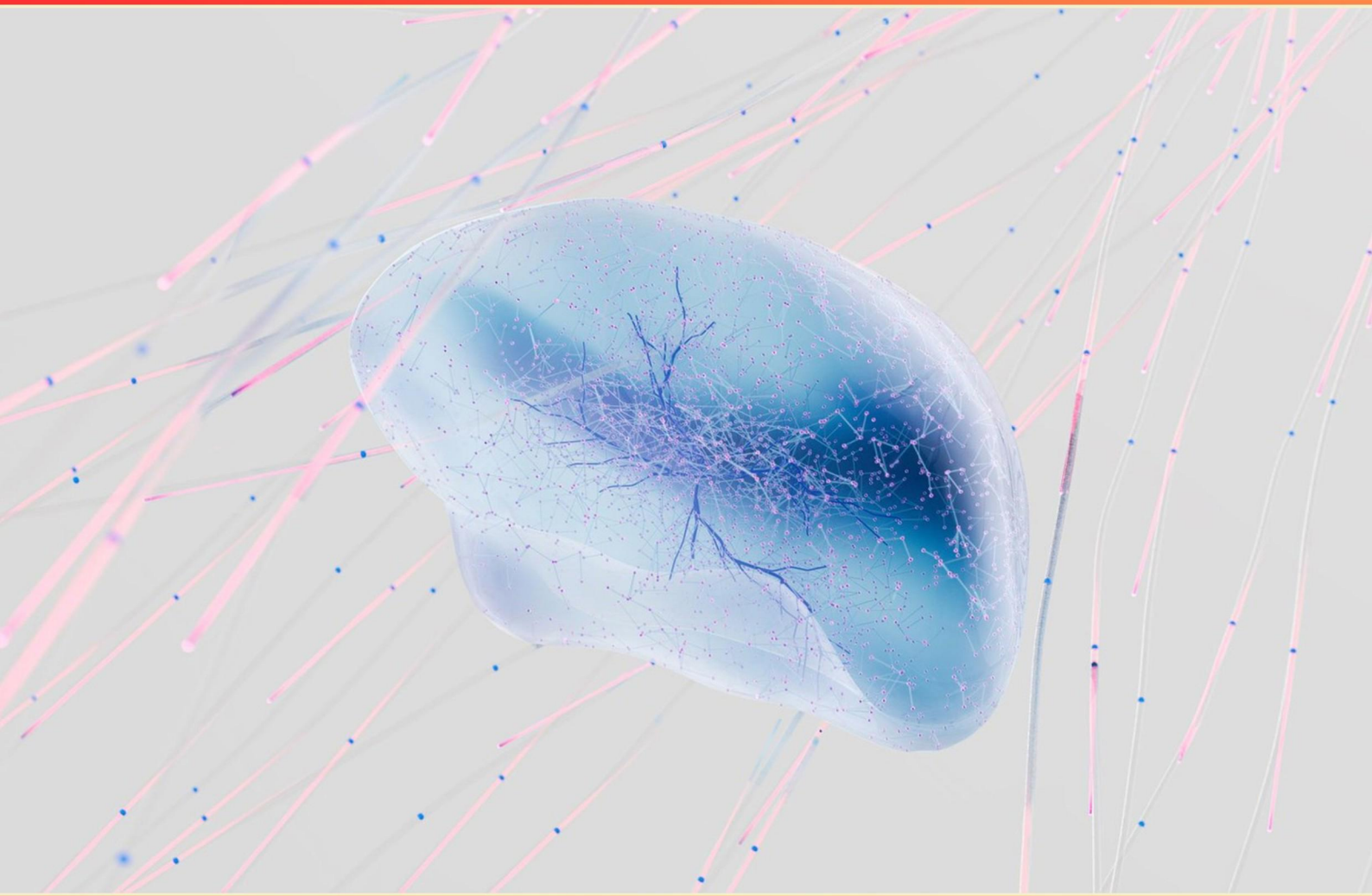


# IB PSYCHOLOGY – BIOLOGICAL APPROACH PRACTICE TEST (SAMPLE)

**STUDY GUIDE**



**SAMPLE STUDY GUIDE  
WITH LIMITED QUESTIONS**

**VISIT US ONLINE FOR  
THE FULL VERSION STUDY GUIDE**

<https://ibpsychbiologicalapproach.examzify.com>



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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. Post-mortem studies in the biology of behavior are best described as:**
  - A. They reveal structural pathology and historical data but cannot establish causality.
  - B. They can generalize findings to all populations.
  - C. They have no ethical concerns about consent.
  - D. They can directly measure neurotransmitter levels in living brains.
- 2. Which imaging technique primarily shows brain anatomy?**
  - A. MRI
  - B. fMRI
  - C. CT
  - D. EEG
- 3. Pheromones are processed via the vomeronasal organ and connected to which brain region?**
  - A. Primary olfactory cortex
  - B. Hippocampus
  - C. Amygdala
  - D. Accessory olfactory bulb
- 4. What are chemical messengers produced by endocrine glands that travel through the bloodstream to affect other tissues?**
  - A. Endocrine glands
  - B. Hormones
  - C. Pheromones
  - D. Neurotransmitters
- 5. What is the role of the limbic system in emotion and memory?**
  - A. The limbic system coordinates motor coordination.
  - B. The limbic system integrates emotion with memory formation and autonomic responses.
  - C. The limbic system controls balance and posture.
  - D. The limbic system processes visual information.

**6. Which statement correctly compares fMRI and EEG?**

- A. fMRI has high spatial resolution but relatively low temporal resolution; EEG has high temporal resolution and limited spatial resolution.
- B. fMRI has high temporal resolution but low spatial resolution; EEG has high spatial resolution.
- C. Both have high spatial resolution; one has better temporal resolution only.
- D. EEG has both higher temporal and spatial resolution than fMRI.

**7. The claim that different traits are influenced by genetic inheritance to varying degrees and environmental factors can influence biological factors via regulation of gene expression represents which concept?**

- A. Theory of Evolution
- B. Natural Selection
- C. Criticisms of Genetics
- D. Epigenetics

**8. Which two language areas and their roles?**

- A. Hippocampus (memory) and amygdala (emotion)
- B. Broca's area (speech production) and Wernicke's area (language comprehension)
- C. Primary visual cortex (vision) and primary auditory cortex (hearing)
- D. Angular gyrus (math) and prefrontal cortex (decision making)

**9. Localization vs lateralization: which statement is true?**

- A. Localization is about specific brain areas responsible for functions; lateralization refers to one hemisphere being more involved (e.g., language often left-hemisphere dominant).
- B. Localization and lateralization are interchangeable terms.
- C. Localization refers to whole-brain networks; lateralization refers to neurotransmitter distribution.
- D. Localization refers to the spinal cord; lateralization refers to the brain.

**10. Which brain region is associated with navigation and was found to differ in London taxi drivers?**

- A. Prefrontal cortex
- B. Anterior hippocampus
- C. Posterior hippocampus
- D. Amygdala



## **Answers**

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

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## **Explanations**

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### 1. Post-mortem studies in the biology of behavior are best described as:

- A. They reveal structural pathology and historical data but cannot establish causality.
- B. They can generalize findings to all populations.
- C. They have no ethical concerns about consent.
- D. They can directly measure neurotransmitter levels in living brains.**

*Post-mortem studies involve examining brains after death to identify structural changes and to gather historical pathology. A key strength is the ability to measure biochemical markers directly in brain tissue, such as neurotransmitter levels, providing a direct look at the brain's chemical state in the tissue that was present at the time of death. This direct biochemical analysis is what makes that description the best fit among the choices. However, these studies cannot establish causality, and their findings may not generalize to living individuals. There are also important ethical considerations regarding consent and the use of human tissue.*

### 2. Which imaging technique primarily shows brain anatomy?

- A. MRI**
- B. fMRI
- C. CT
- D. EEG

*Structural imaging aims to reveal brain anatomy, and MRI excels at this because it provides extremely detailed pictures of brain tissue with high spatial resolution. MRI uses strong magnetic fields and radio waves to differentiate between different soft tissues, giving clear, crisp images of structures like gray and white matter without exposing the brain to ionizing radiation. CT also shows anatomy and is quick, but it has lower soft-tissue contrast and uses X-rays. Functional imaging, such as fMRI, is about detecting activity by measuring blood flow changes, not the static structure, while EEG records electrical activity with limited detail about where in the brain things are occurring. So for showing the brain's anatomy, MRI is the best choice.*

### 3. Pheromones are processed via the vomeronasal organ and connected to which brain region?

- A. Primary olfactory cortex
- B. Hippocampus
- C. Amygdala
- D. Accessory olfactory bulb**

*Pheromone signaling uses the vomeronasal system, where the vomeronasal organ detects pheromones and sends the signals to the accessory olfactory bulb. This is the first relay in that pathway, making it the direct brain region linked to pheromone processing. From there, information moves to areas like the amygdala and hypothalamus, which helps drive instinctive social and reproductive behaviors. The primary olfactory cortex handles general odors from the main olfactory system, not pheromones; the hippocampus is more about memory; the amygdala is involved downstream in emotion and behavior but is not the initial relay.*

**4. What are chemical messengers produced by endocrine glands that travel through the bloodstream to affect other tissues?**

- A. Endocrine glands
- B. Hormones**
- C. Pheromones
- D. Neurotransmitters

*Endocrine signaling uses chemical messengers that travel through the bloodstream to reach distant tissues. These messengers are hormones produced by endocrine glands such as the pituitary, thyroid, adrenal glands, and pancreas. Once in the blood, hormones bind to receptors on target cells to regulate processes like metabolism, growth, and reproduction. This system differs from neurotransmitters, which are released at synapses to produce rapid, local effects on nearby neurons or muscles, and from pheromones, which are chemicals released into the environment to influence other individuals rather than the body's own tissues. Because hormones travel via the bloodstream, their effects are typically slower to start but longer-lasting.*

**5. What is the role of the limbic system in emotion and memory?**

- A. The limbic system coordinates motor coordination.
- B. The limbic system integrates emotion with memory formation and autonomic responses.**
- C. The limbic system controls balance and posture.
- D. The limbic system processes visual information.

*Emotion and memory are tightly connected through the limbic system. The amygdala evaluates how emotionally significant a moment is and communicates with the hippocampus to boost memory encoding when arousal is high. This means emotionally charged events tend to be remembered more vividly because the amygdala enhances the consolidation processes in memory formation. The hypothalamus then translates that emotional state into physiological arousal and autonomic responses, so the body prepares for action while the memory is being formed. The hippocampus supports forming and organizing the memory itself, giving it context and detail. In short, the limbic system links what we feel with how we remember and responds to that emotion with bodily changes. Functions like coordinating movement, balancing, or processing vision involve other brain areas such as the cerebellum or occipital lobe.*

**6. Which statement correctly compares fMRI and EEG?**

- A. fMRI has high spatial resolution but relatively low temporal resolution; EEG has high temporal resolution and limited spatial resolution.**
- B. fMRI has high temporal resolution but low spatial resolution; EEG has high spatial resolution.
- C. Both have high spatial resolution; one has better temporal resolution only.
- D. EEG has both higher temporal and spatial resolution than fMRI.

*The main idea tested is how fMRI and EEG differ in spatial and temporal precision. fMRI detects brain activity by measuring blood-oxygen levels, which gives very good spatial localization (down to a few millimeters) but its timing is slow because the hemodynamic response unfolds over about 1–2 seconds. EEG, on the other hand, records electrical activity directly from the scalp with millisecond precision, providing excellent timing, but its spatial localization is limited because the signals spread through the skull and tissues, making it hard to pinpoint exact sources. The statement that fMRI has high spatial resolution but relatively low temporal resolution, while EEG has high temporal resolution and limited spatial resolution, captures these core differences. That makes it the best description. The other options misstate one or both properties: fMRI isn't high in temporal resolution, EEG isn't high in spatial resolution, and both having high spatial resolution isn't accurate.*

**7. The claim that different traits are influenced by genetic inheritance to varying degrees and environmental factors can influence biological factors via regulation of gene expression represents which concept?**

- A. Theory of Evolution
- B. Natural Selection
- C. Criticisms of Genetics**
- D. Epigenetics

*Epigenetics is the idea here: the environment can influence how strongly or weakly genes are expressed without changing the DNA sequence itself. This means that traits, while rooted in genetic inheritance, can be shaped by environmental factors through mechanisms that turn genes on or off or adjust their level of activity. That regulatory process explains how biological factors can be influenced by surroundings, producing different phenotypes. The other options describe evolutionary processes or broad debates about genetics, which don't capture the mechanism of environment-driven gene regulation.*

**8. Which two language areas and their roles?**

- A. Hippocampus (memory) and amygdala (emotion)
- B. Broca's area (speech production) and Wernicke's area (language comprehension)**
- C. Primary visual cortex (vision) and primary auditory cortex (hearing)
- D. Angular gyrus (math) and prefrontal cortex (decision making)

*Two language areas are Broca's area, which controls speech production, and Wernicke's area, which handles language comprehension. This pairing covers both expressive and receptive aspects of language, which is exactly what the question is asking about. Knowing their roles helps connect how we speak and how we understand spoken or written language. Damage to Broca's area tends to produce nonfluent, effortful speech, while damage to Wernicke's area leads to fluent but often nonsensical speech and poor comprehension. The other options relate to memory (hippocampus), emotion (amygdala), basic sensory processing (primary visual and primary auditory cortices), or other cognitive functions (angular gyrus with math, prefrontal cortex with decision making), not language production and understanding.*

## 9. Localization vs lateralization: which statement is true?

- A. Localization is about specific brain areas responsible for functions; lateralization refers to one hemisphere being more involved (e.g., language often left-hemisphere dominant).
- B. Localization and lateralization are interchangeable terms.
- C. Localization refers to whole-brain networks; lateralization refers to neurotransmitter distribution.
- D. Localization refers to the spinal cord; lateralization refers to the brain.

*The idea being tested is the distinction between localization of function and lateralization in the brain. Localization means that specific cognitive abilities are tied to particular brain regions—language, for instance, is strongly linked to left-hemisphere areas like Broca's and Wernicke's regions. Lateralization, on the other hand, describes a pattern where one hemisphere is more involved than the other for a given function; language tends to be left-lateralized for many people, though both sides contribute. This statement is the best because it clearly captures both ideas: you can have a function localized to certain areas, and that function can show hemispheric dominance. It's not about whole-brain networks or chemical processes, and it doesn't refer to the spinal cord.*

## 10. Which brain region is associated with navigation and was found to differ in London taxi drivers?

- A. Prefrontal cortex
- B. Anterior hippocampus
- C. Posterior hippocampus
- D. Amygdala

*Navigation relies on the hippocampus to form and use cognitive maps of the environment. In the London taxi driver study, extensive navigation experience was linked to a structural change in the brain, specifically a larger posterior hippocampus. This rear portion of the hippocampus is particularly involved in processing spatial layouts, routes, and precise spatial memory. The result supports the idea that demanding navigational work can shape the brain to enhance the skills it relies on. The other regions don't align as directly with navigation: the prefrontal cortex is more about planning and executive control, the amygdala handles emotion, and while the anterior hippocampus is involved in other aspects of memory and emotion, the observed adaptation was in the posterior part that supports navigation, making it the most fitting choice.*

## 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://ibpsychbiologicalapproach.examzify.com>

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

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