

Drug Recognition Expert Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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SAMPLE

Questions

- 1. What is the average pulse rate according to Drug Recognition Expert standards?**
 - A. 50-70 beats per minute**
 - B. 70-100 beats per minute**
 - C. 60-90 beats per minute**
 - D. 80-120 beats per minute**
- 2. Which drug classification includes drugs such as cocaine and amphetamines?**
 - A. CNS Depressants**
 - B. CNS Stimulants**
 - C. Anti-psychotics**
 - D. Non-barbiturates**
- 3. During a Dissociative Anesthetics evaluation, which symptom indicates its presence?**
 - A. Pupil size: Dilated**
 - B. LOC: None**
 - C. VGN: None**
 - D. HGN: Not present**
- 4. What is the primary function of sympathomimetic drugs?**
 - A. Mimicking the neurotransmitter associated with parasympathetic nerves**
 - B. Producing sedation and relaxation in the user**
 - C. Causing the transmission of messages that produce elevated blood pressure**
 - D. Inhibiting neurotransmitter activity in the brain**
- 5. What is the meaning of 'voir dire' in a legal context?**
 - A. To determine the validity of evidence**
 - B. To seek the truth and assess witness qualifications**
 - C. To establish case precedents**
 - D. To question the judge's decisions**

- 6. When observing miosis due to Heroin and PCP, what is most likely occurring?**
- A. Downside of heroin**
 - B. Overlapping effect between the two drugs**
 - C. Antagonistic effect**
 - D. Additive effect**
- 7. What is the primary ingredient used by yeast in fermentation?**
- A. Water**
 - B. Salt**
 - C. Sugars**
 - D. Oils**
- 8. What is the significance of the systolic measurement in blood pressure readings?**
- A. It represents the pressure in the veins**
 - B. It indicates the lowest pressure in the arteries**
 - C. It is the pressure during heart contractions**
 - D. It signifies the pressure during heart relaxation**
- 9. What is true regarding pupils under the influence of narcotic analgesics?**
- A. Pupils will be dilated**
 - B. Pupils will be normal**
 - C. Pupils will be constricted**
 - D. Pupils will be either dilated or constricted**
- 10. What would an increase in drug tolerance most likely lead to?**
- A. Decreased drug consumption**
 - B. Increased psychoactive effects from the same dose**
 - C. Increased dosage to achieve the same effects**
 - D. Discontinuation of drug use**

Answers

SAMPLE

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

SAMPLE

Explanations

SAMPLE

1. What is the average pulse rate according to Drug Recognition Expert standards?

- A. 50-70 beats per minute**
- B. 70-100 beats per minute**
- C. 60-90 beats per minute**
- D. 80-120 beats per minute**

The average pulse rate according to Drug Recognition Expert standards is typically defined as falling within the range of 60-90 beats per minute. This range is considered normal for adults and reflects the heart's activity at rest, which can be an important indicator of an individual's physiological state. Understanding the normal pulse rate is crucial for Drug Recognition Experts, as deviations from this range can indicate the influence of drugs or other medical conditions. A heart rate above or below this range may suggest potential intoxication or withdrawal and can serve as a useful metric in the comprehensive evaluation of an individual suspected of being under the influence of substances. In assessing pulse rates, experts consider various factors, including the individual's age, fitness level, and overall health. Therefore, the recognition of a resting pulse rate within the 60-90 beats per minute range is a fundamental aspect of the assessment process.

2. Which drug classification includes drugs such as cocaine and amphetamines?

- A. CNS Depressants**
- B. CNS Stimulants**
- C. Anti-psychotics**
- D. Non-barbiturates**

The drug classification that includes cocaine and amphetamines is CNS stimulants. This category of drugs acts primarily on the central nervous system to increase alertness, attention, and energy. Cocaine, a powerful stimulant derived from the coca plant, significantly raises dopamine levels in the brain, leading to heightened energy and euphoria. Similarly, amphetamines, which include substances like methamphetamine and prescription medications for ADHD, enhance the release of neurotransmitters such as norepinephrine and dopamine, resulting in increased concentration and wakefulness. Understanding the effects of CNS stimulants is crucial for drug recognition experts, as these substances can lead to behaviors that differ significantly from those associated with other drug classifications.

3. During a Dissociative Anesthetics evaluation, which symptom indicates its presence?

- A. Pupil size: Dilated**
- B. LOC: None**
- C. VGN: None**
- D. HGN: Not present**

The indication of dissociative anesthetics, such as PCP or ketamine, often includes the absence of vertical gaze nystagmus (VGN) during an evaluation. VGN is a specific type of eye movement that typically occurs when certain depressant or other drug categories are present. In the case of dissociative anesthetics, recognizing that VGN is not exhibited helps differentiate these substances from others that may cause similar symptoms. Identifying the lack of VGN is crucial for accurate drug recognition, as it points toward the specific action of dissociative anesthetics on the central nervous system, which can produce various dissociative effects without inducing the same ocular responses as depressants or stimulants. This symptom, therefore, plays a key role in the assessment process and contributes to the determination of the presence of dissociative anesthetics.

4. What is the primary function of sympathomimetic drugs?

- A. Mimicking the neurotransmitter associated with parasympathetic nerves**
- B. Producing sedation and relaxation in the user**
- C. Causing the transmission of messages that produce elevated blood pressure**
- D. Inhibiting neurotransmitter activity in the brain**

Sympathomimetic drugs are primarily known for their ability to stimulate the sympathetic nervous system, which is responsible for the body's 'fight or flight' response. The correct answer highlights that these drugs cause the transmission of messages that lead to physiological responses such as elevated blood pressure. This elevation occurs because sympathomimetics increase the levels of certain neurotransmitters, like norepinephrine, which enhance heart rate, constrict blood vessels, and subsequently raise blood pressure. The other options focus on different mechanisms that are not characteristic of sympathomimetic drugs. For instance, mimicking neurotransmitters associated with the parasympathetic nervous system refers to the action of parasympathomimetics, which is contrary to the effects sympathomimetics aim to achieve. Options discussing sedation and relaxation, as well as inhibition of neurotransmitter activity, are associated with other drug classes, such as depressants or antipsychotics, rather than stimulants like sympathomimetics. Understanding the role of sympathomimetics in the context of the autonomic nervous system is fundamental for recognizing their effects on vital physiological parameters like blood pressure.

5. What is the meaning of 'voir dire' in a legal context?

- A. To determine the validity of evidence**
- B. To seek the truth and assess witness qualifications**
- C. To establish case precedents**
- D. To question the judge's decisions**

The term 'voir dire' pertains to the process of questioning potential jurors or witnesses in a legal context to assess their qualifications, biases, and suitability for a particular case. During voir dire, attorneys seek to uncover any potential conflicts of interest or preconceived notions that might affect a juror's impartiality. Essentially, this process is aimed at ensuring that the jury selected is fair and can deliver an unbiased verdict based upon the evidence presented. Choosing to focus on seeking the truth and assessing witness qualifications captures the essential purpose of voir dire, which is foundational to the integrity of the legal process. By rigorously evaluating the backgrounds and perspectives of jurors or witnesses prior to a trial, lawyers help to establish a fair judicial environment, thus upholding the principle of justice.

6. When observing miosis due to Heroin and PCP, what is most likely occurring?

- A. Downside of heroin**
- B. Overlapping effect between the two drugs**
- C. Antagonistic effect**
- D. Additive effect**

In the context of drug effects, miosis, or constricted pupils, can be observed with certain substances. Both heroin, an opioid, and PCP, a dissociative anesthetic, can cause this effect, although through different mechanisms. When observing miosis due to both heroin and PCP, it indicates that their effects might be overlapping rather than caused by one driving the action of the other or resulting from opposing effects. Heroin acts as an agonist on opioid receptors, leading to characteristic effects such as sedation and, notably, miosis. PCP, while primarily recognized for causing pupil dilation (mydriasis), can also sometimes produce miosis, particularly when mixed with other substances or in specific contexts. The overlapping effects suggest a scenario in which both drugs are present and are influencing the pupil size concurrently, showcasing how different classes of drugs can produce similar physiological effects. This understanding exemplifies how drug interactions can lead to phenomena that might not be expected when analyzing their individual behaviors. In this case, it is essential to recognize that miosis resulting from their combined presence points toward an interaction rather than an isolated reaction from either substance or a competitive effect between them.

7. What is the primary ingredient used by yeast in fermentation?

- A. Water**
- B. Salt**
- C. Sugars**
- D. Oils**

The primary ingredient used by yeast in fermentation is sugars. During the fermentation process, yeast metabolizes sugars to produce alcohol and carbon dioxide. This process is a key part of how yeast functions in various food and beverage production, such as brewing beer and baking bread. Sugars, typically derived from carbohydrates, serve as the energy source that yeast cells utilize to thrive and reproduce. In contrast, water is essential for the fermentation process as it acts as a medium for the yeast and ingredients but is not directly metabolized. Salt is generally used in fermentation to enhance flavor or control microbial growth, but it does not serve as a primary energy source for yeast. Oils do not play a role in fermentation; they may be used in cooking or food preparation but do not provide the sugars needed for yeast activity. Thus, the correct identification of sugars as the primary ingredient underscores their vital role in yeast fermentation.

8. What is the significance of the systolic measurement in blood pressure readings?

- A. It represents the pressure in the veins**
- B. It indicates the lowest pressure in the arteries**
- C. It is the pressure during heart contractions**
- D. It signifies the pressure during heart relaxation**

The systolic measurement in blood pressure readings is significant because it reflects the pressure in the arteries when the heart is actively contracting and pumping blood into the circulatory system. This contraction leads to a peak in arterial pressure, which is captured as the systolic number in a blood pressure reading. Understanding this measurement is crucial because it is an indicator of how well the heart is functioning and how effectively it is able to circulate blood throughout the body. A higher systolic pressure may suggest increased workload on the heart or potential cardiovascular issues, while normal ranges indicate effective heart performance. The other responses pertain to different aspects of blood pressure. The pressure in the veins corresponds more closely to the diastolic measurement, which is recorded when the heart is at rest between beats, rather than during contractions. The lowest pressure in the arteries is specifically represented by the diastolic reading, not the systolic. Finally, the pressure during heart relaxation refers to the diastolic pressure as well, further differentiating it from the systolic measurement.

9. What is true regarding pupils under the influence of narcotic analgesics?

- A. Pupils will be dilated**
- B. Pupils will be normal**
- C. Pupils will be constricted**
- D. Pupils will be either dilated or constricted**

Pupils under the influence of narcotic analgesics are commonly constricted, a phenomenon often referred to as "miosis." Narcotic analgesics, such as opioids, produce this effect due to their action on the central nervous system, where they stimulate specific receptors that lead to decreased physiological arousal and subsequent pupil constriction. This characteristic is especially significant for drug recognition experts, as it's a key sign of opioid use and can help differentiate narcotic identity from other substance influences, which may present differently in terms of pupil size. Understanding this physiological response is crucial for accurately assessing and identifying the effects of narcotic analgesics in individuals suspected of substance use.

10. What would an increase in drug tolerance most likely lead to?

- A. Decreased drug consumption**
- B. Increased psychoactive effects from the same dose**
- C. Increased dosage to achieve the same effects**
- D. Discontinuation of drug use**

An increase in drug tolerance occurs when a person's body becomes accustomed to a substance, requiring larger amounts of the drug to achieve the same effects previously experienced at lower doses. This physiological adaptation can develop over time with consistent use of a drug, leading to the need for increased dosage to reach the desired psychoactive effects. As tolerance builds, the body's systems adapt to the presence of the drug, which dampens its effectiveness at the original dosage. Consequently, individuals may find themselves needing to consume more of the substance to feel the same level of intoxication or relief as they did when they first started using it. This increased dosage can lead to higher risks of overdose and other harmful health effects.