

# **SURGICAL SBAS FOR FINALS WITH EXPLANATORY ANSWERS MASTERPASS**

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### **Surgical SBAs for Finals: Explanatory Answers Masterpass**

Surgical Student Based Assessments (SBAs) are commonly utilized for finals to evaluate students' knowledge and critical thinking skills. To assist in preparation, here are some insightful questions and answers that cover crucial surgical topics.

**1. A 35-year-old female presents with a tender, erythematous swelling in the right axilla. She has a history of herpes zoster in the same area. Which of the following is the most likely diagnosis?**

- A. Hidradenitis suppurativa
- B. Infected Bartholin's gland cyst
- C. Apocrine gland abscess
- D. Herpes zoster reactivation

**Correct Answer:** D. Herpes zoster reactivation

**Explanation:** Herpes zoster is a viral infection that can reactivate after the initial infection and cause recurrent episodes of pain and rash along the affected nerve pathway.

**2. A 50-year-old male presents with a 3-month history of painless hematuria. On examination, a 2 cm bladder mass is noted. Which of the following is the most appropriate management?**

- A. Transurethral resection of bladder tumor (TURBT)
- B. Partial cystectomy
- C. Radical cystectomy
- D. Intravesical Bacillus Calmette-Guérin (BCG) therapy

**Correct Answer:** A. TURBT

**Explanation:** In a patient with painless hematuria and a visible bladder mass, the initial diagnostic and therapeutic step is TURBT, which involves resecting a portion of the tumor for examination under a microscope.

**3. A 65-year-old female presents with a 6-month history of progressive dysphagia. Endoscopy reveals a circumferential esophageal lesion. Which of the following is the most likely cause?**

- A. Esophageal adenocarcinoma
- B. Esophageal squamous cell carcinoma
- C. Achalasia
- D. Barrett's esophagus

**Correct Answer:** A. Esophageal adenocarcinoma

**Explanation:** Esophageal adenocarcinoma is a type of cancer that develops in the glandular cells of the esophagus. It is commonly associated with Barrett's esophagus, a condition where the normal squamous cells of the esophagus are replaced by intestinal-type cells due to chronic acid reflux.

**4. A 40-year-old male presents with a 2-day history of abdominal pain and vomiting. On examination, he has a palpable mass in the epigastrium. Which of the following is the most likely diagnosis?**

- A. Acute pancreatitis
- B. Peptic ulcer disease
- C. Cholecystitis
- D. Gastric outlet obstruction

**Correct Answer:** A. Acute pancreatitis

**Explanation:** Acute pancreatitis is characterized by abdominal pain, nausea, and vomiting, often associated with a palpable mass in the epigastrium due to the inflamed pancreas.

**5. A 25-year-old female presents with a 2-week history of pain and swelling in the right knee. On examination, warmth, tenderness, and effusion are noted. Which of the following is the most appropriate imaging modality for further evaluation?**

- A. Magnetic resonance imaging (MRI)
- B. Computed tomography (CT) scan
- C. Plain radiograph
- D. Ultrasound

**Correct Answer:** A. MRI

**Explanation:** MRI is the imaging modality of choice for evaluating knee pain and effusions, as it provides excellent visualization of soft tissues, including ligaments, tendons, and cartilage.

### **The Tell-Tale Heart and Other Writings by Edgar Allan Poe: Unraveling the Master of the Macabre**

#### **1. What is the central theme of "The Tell-Tale Heart"?**

"The Tell-Tale Heart" explores the psychological descent of an unnamed narrator into madness. Driven by an obsessive hatred for an elderly man's "vulture-eye," the narrator resorts to murder to free himself from his perceived tormentor. The tale delves into the depths of guilt, fear, and self-betrayal.

#### **2. What are the notable literary devices used in "The Tell-Tale Heart"?**

Poe employs several literary devices to heighten tension and create an eerie atmosphere. The narrator's first-person perspective immerses the reader in his disturbed mental state. The repetition of key phrases, such as "vulture eye" and

"true!", creates a sense of obsession and paranoia. Poe also uses fragmented syntax and unstable narration to convey the narrator's unraveling sanity.

### **3. What other significant works are included in "Other Writings by Edgar Allan Poe"?**

In addition to "The Tell-Tale Heart," this anthology features a collection of Poe's most famous and haunting short stories, including "The Raven," "The Masque of the Red Death," and "A Descent into the Maelström." These stories showcase Poe's mastery of the macabre and his ability to evoke fear and wonder in readers.

### **4. What is Poe's legacy as a master of the horror genre?**

Edgar Allan Poe is widely regarded as the pioneer of the modern horror story. His works have inspired generations of writers and continue to be studied and analyzed today. Poe's ability to create psychological terror and delve into the dark recesses of the human mind has cemented his status as a literary mastermind of the macabre.

### **5. How does "The Tell-Tale Heart" exemplify Poe's literary style?**

"The Tell-Tale Heart" is a quintessential example of Poe's literary style. It features a highly unreliable narrator, a sense of paranoia and obsession, and a gradual descent into madness. Poe's use of vivid imagery, symbolism, and rhythm creates an immersive and haunting experience that has left a lasting mark on American literature and beyond.

## **Theory of Elasticity: Timoshenko Solution**

### **Q1: What is the Timoshenko solution in the theory of elasticity?**

A1: The Timoshenko solution is a theoretical model that extends the classical elasticity theory developed by Stephen Timoshenko. It addresses the limitations of the classical theory by incorporating the effects of transverse shear deformation.

### **Q2: How does the Timoshenko solution improve upon the classical elasticity theory?**

A2: The Timoshenko solution considers the material's thickness and the resulting shear deformation, which is crucial for materials with high thickness-to-width ratios.

This modification enhances the accuracy of stress and strain predictions, particularly in structures subjected to bending, torsion, or out-of-plane loads.

**Q3: What are the assumptions and limitations of the Timoshenko solution?**

A3: The Timoshenko solution assumes that the material is linearly elastic, isotropic, and homogeneous. It also assumes that the deformations are small compared to the dimensions of the structure. Additionally, it neglects the effects of material nonlinearity, plasticity, and creep.

**Q4: How is the Timoshenko solution applied in structural analysis?**

A4: The Timoshenko solution forms the basis for many analytical and numerical methods in structural analysis. It is commonly used to determine the stresses, strains, and deflections of beams, plates, and shells subjected to various loading conditions. It finds applications in civil engineering, mechanical engineering, and aerospace engineering.

**Q5: What are the advantages of using the Timoshenko solution?**

A5: The Timoshenko solution provides more accurate results compared to the classical elasticity theory, particularly for structures with significant shear deformation. It improves the prediction of stress concentrations, buckling behavior, and natural frequencies. Additionally, it offers a versatile approach that can be easily extended to analyze complex geometries and loading conditions.

**Shop Manual for the 600 Skidoo: Troubleshooting Common Issues**

**1. Why is my 600 Skidoo idling erratically?**

- Answer: Check the carburetor for clogging, the choke cable for proper adjustment, and the spark plug for fouling.

**2. My Skidoo is losing power at high speeds.**

- Answer: This could indicate a fuel starvation issue. Inspect the fuel filter, fuel pump, and fuel lines for blockages or leaks.

**3. Why is my Skidoo overheating?**

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- Answer: The cooling system may be malfunctioning. Check the coolant level, thermostat, and water pump. Ensure there are no obstructions to airflow, such as snow buildup or damaged fins.

#### 4. My Skidoo is making a clunking noise when shifting.

- Answer: This often indicates a problem with the transmission. Inspect the drive belt for wear or damage, and check the transmission components for misalignment or broken gears.

#### 5. How do I replace the track on my Skidoo?

- Answer: Refer to the shop manual for specific instructions. Generally, you will need to loosen the track tension, remove the old track, install the new track, and re-tension it. Ensure proper alignment and lubrication.

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