

ARRT ULTRASOUND PRACTICE TEST (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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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 malformation involves downward displacement of the cerebellar vermis, fourth ventricle, and brainstem through the foramen magnum, often with banana sign and lemon sign?**
 - A. Arnold-Chiari II malformation
 - B. Dandy-Walker malformation
 - C. Arachnoid cyst
 - D. Hydranencephaly

- 2. The endometrium consists of two layers, functional and basal. Which layer sheds with menses?**
 - A. Basal
 - B. Functional
 - C. Endometrium
 - D. Myometrium

- 3. Which vessel receives blood from the gallbladder, pancreas, spleen, and gastrointestinal tract?**
 - A. Main portal vein
 - B. Superior mesenteric vein
 - C. Inferior vena cava
 - D. Hepatic artery

- 4. Dilatation of an artery characterized by a focal outpouching of one arterial wall, most often caused by trauma or infection is called**
 - A. Saccular
 - B. Fusiform
 - C. Mycotic Aneurysm
 - D. Pseudoaneurysm

- 5. Which muscles form the lateral margins of the true pelvis surrounding the obturator foramen?**
 - A. Obturator internus
 - B. Piriformis
 - C. Iliopsoas
 - D. Levator ani

- 6. Which region of the pelvis lies above the pelvic brim?**
- A. False pelvis
 - B. True pelvis
 - C. Pelvic inlet
 - D. Pelvic cavity
- 7. Which of the following gallbladder abnormalities is not always pathologic in origin?**
- A. Biliary sludge
 - B. Gallstones
 - C. Cholecystitis
 - D. Gallbladder polyps
- 8. The diaphragmatic crura lie anterior to which major abdominal vessel?**
- A. The aorta
 - B. The IVC
 - C. The portal vein
 - D. The superior mesenteric artery
- 9. Which term describes cycles with intervals longer than 35 days?**
- A. Amenorrhea
 - B. Menorrhagia
 - C. Oligomenorrhea
 - D. Dysmenorrhea
- 10. Hydronephrosis is diagnosed when the renal collecting system dilatation exceeds which measurement?**
- A. 10 mm
 - B. 5 mm
 - C. 15 mm
 - D. 20 mm

Answers

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

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Explanations

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1. Which malformation involves downward displacement of the cerebellar vermis, fourth ventricle, and brainstem through the foramen magnum, often with banana sign and lemon sign?

A. Arnold-Chiari II malformation

B. Dandy-Walker malformation

C. Arachnoid cyst

D. Hydranencephaly

Downward displacement of the cerebellar vermis, fourth ventricle, and brainstem through the foramen magnum is a hallmark finding of Arnold-Chiari II malformation. This hindbrain herniation produces the characteristic banana sign on fetal ultrasound, due to an abnormally curved cerebellum, and the lemon sign, which reflects frontal skull contour changes. These features often occur with spinal neural tube defects such as myelomeningocele, making Chiari II a classic association. Other conditions have distinct imaging patterns. Dandy-Walker malformation shows an enlarged posterior fossa with cystic dilation of the fourth ventricle and vermian abnormalities, not downward herniation through the foramen magnum. An arachnoid cyst is a CSF-filled space that doesn't produce the hindbrain herniation pattern typical of Chiari II. Hydranencephaly involves near-complete loss of cerebral hemispheres and lacks this hindbrain displacement scenario.

2. The endometrium consists of two layers, functional and basal. Which layer sheds with menses?

A. Basal

B. Functional

C. Endometrium

D. Myometrium

The endometrium has a superficial functional layer that responds to the monthly hormonal cycle and a deeper basal layer that remains after shedding. During the cycle, the functional layer thickens and becomes highly vascularized in preparation for possible implantation. If pregnancy does not occur, withdrawal of progesterone causes the functional layer to shed, resulting in menses. The basal layer remains intact and serves as the source to regenerate a new functional layer in the next cycle. The myometrium, the muscular layer surrounding the endometrium, is not shed. So the layer that is shed during menses is the functional layer.

3. Which vessel receives blood from the gallbladder, pancreas, spleen, and gastrointestinal tract?

A. Main portal vein

B. Superior mesenteric vein

C. Inferior vena cava

D. Hepatic artery

The blood from the gallbladder, pancreas, spleen, and gastrointestinal tract is collected by the portal venous system and delivered to the liver. The main portal vein is the central trunk that receives tributaries from these organs: the splenic vein brings blood from the spleen (and parts of the pancreas), the superior mesenteric vein drains much of the GI tract (and also receives pancreatic venous blood), and cystic veins drain the gallbladder into the portal system. All these streams converge into the main portal vein, which then carries nutrient-rich venous blood to the liver for processing. After passing through the liver, blood exits via the hepatic veins into the inferior vena cava. The other vessels don't serve as the direct collection point for blood from all these organs: the inferior vena cava handles systemic return, the hepatic artery supplies arterial blood to the liver, and the superior mesenteric vein is a major tributary feeding the portal system but does not alone receive blood from the gallbladder and spleen.

4. Dilatation of an artery characterized by a focal outpouching of one arterial wall, most often caused by trauma or infection is called

A. Saccular

B. Fusiform

C. Mycotic Aneurysm

D. Pseudoaneurysm

A focal outpouching of one arterial wall is a saccular aneurysm. This shape is a true aneurysm where a localized segment of the vessel wall balloons out on one side, creating an opening or neck. It contrasts with a fusiform dilation, which enlarges the entire circumference of the vessel in a spindle-shaped way. The description also helps distinguish from a pseudoaneurysm, which is not a true aneurysm: it results from a breach in the vessel wall with blood contained by surrounding tissue, forming a hematoma that communicates with the artery rather than an outpouching of the wall itself. Mycotic aneurysm refers to an infection-driven true aneurysm and can be saccular in shape, but the hallmark descriptor here is the focal, pouch-like bulge of a single wall.

5. Which muscles form the lateral margins of the true pelvis surrounding the obturator foramen?

A. Obturator internus

B. Piriformis

C. Iliopsoas

D. Levator ani

Obturator internus forms the lateral margins of the true pelvis around the obturator foramen. It begins on the inner surface of the obturator foramen and the surrounding pelvic bones, then passes through the lesser sciatic foramen to reach its insertion on the greater trochanter of the femur. This placement makes it the muscular boundary on the lateral wall where the obturator foramen sits. The piriformis is located more posteriorly as part of the posterior pelvic wall, the iliopsoas runs along the anterior aspect near the pelvic brim, and levator ani makes up the pelvic floor rather than the lateral wall.

6. Which region of the pelvis lies above the pelvic brim?

A. False pelvis

B. True pelvis

C. Pelvic inlet

D. Pelvic cavity

The boundary that separates the two parts of the pelvis is the pelvic brim. Above this brim lies the false pelvis, also called the greater pelvis, which includes the upper portions of the pelvic bones and the lower abdominal contents. The true pelvis, or lesser pelvis, sits below the brim and contains the pelvic organs. The pelvic inlet corresponds to the upper opening of the true pelvis (the brim itself), and the pelvic cavity is the space inside the true pelvis. So the region above the pelvic brim is the false pelvis.

7. Which of the following gallbladder abnormalities is not always pathologic in origin?

A. Biliary sludge

B. Gallstones

C. Cholecystitis

D. Gallbladder polyps

Not every gallbladder finding means disease; some are normal or transient variants. Biliary sludge is a mixture of cholesterol crystals, calcium bilirubinate, and mucus that can occur with bile stasis. It's commonly seen with fasting, rapid weight loss, pregnancy, or prolonged TPN. On ultrasound, sludge appears as low-level, dependent echogenic material that tends to layer in the gallbladder and may shift with position; it does not cast a shadow like stones and can resolve on its own. Because sludge can be a benign, reversible change rather than a true disease process, it's not inherently pathologic. In contrast, gallstones are solid mineralized bodies that usually indicate an abnormal process and can provoke symptoms or complications. Cholecystitis is an inflammatory condition of the gallbladder, typically due to obstruction or infection, and shows signs like wall thickening and pericholecystic fluid on ultrasound. Gallbladder polyps are mucosal projections; while many are benign, they represent an abnormal growth and carry a risk profile that often prompts follow-up, so they are considered pathologic in origin more consistently than sludge.

8. The diaphragmatic crura lie anterior to which major abdominal vessel?

A. The aorta

B. The IVC

C. The portal vein

D. The superior mesenteric artery

The diaphragmatic crura are the tendinous bands that anchor the diaphragm to the lumbar spine and form the posterior margins of the openings through the diaphragm. The aorta passes through the diaphragm at the aortic hiatus, which sits between the left and right crura. In this arrangement, the crura lie in front of the aorta, with the aorta passing posterior to them. The other vessels aren't related to the crura in the same way: the IVC goes through the central tendon (caval opening) more anteriorly and to the right, the portal vein lies in the hepatoduodenal ligament, and the SMA arises from the aorta at higher level and travels anterior to the spine but doesn't pass between the crura. So the diaphragmatic crura are anterior to the aorta.

9. Which term describes cycles with intervals longer than 35 days?

- A. Amenorrhea
- B. Menorrhagia
- C. Oligomenorrhea**
- D. Dysmenorrhea

Cycles with intervals longer than 35 days are described as oligomenorrhea. This term captures infrequent menstruation, meaning the normal 21–35 day pattern is extended so menses occur less often. Normal cycles typically fall within that 21–35 day window, so any consistent extension beyond 35 days points to oligomenorrhea. In contrast, amenorrhea means no menses occur at all, dysmenorrhea is associated with painful cramps, and menorrhagia refers to heavy or prolonged bleeding. Recognizing oligomenorrhea can help in evaluating hormonal balance and ovulation status, which is important for planning any ultrasound assessment or pregnancy-related care.

10. Hydronephrosis is diagnosed when the renal collecting system dilatation exceeds which measurement?

- A. 10 mm**
- B. 5 mm
- C. 15 mm
- D. 20 mm

Dilation of the renal collecting system is the key sign being tested. On ultrasound, the anteroposterior diameter of the renal pelvis is measured; a pelvis that is expanded beyond about 10 mm (1 cm) indicates hydronephrosis. This threshold reflects that the collecting system has enlarged significantly beyond normal, often due to urine outflow obstruction or reflux, causing backpressure into the pelvis and calyces. Keep in mind that smaller dilations can be normal variants or transient, influenced by factors like bladder fullness or patient hydration, so the finding of a pelvis ≥ 10 mm is what solidifies a hydronephrosis diagnosis. If hydronephrosis is suspected, correlate with symptoms and consider repeat imaging or further studies if needed.

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://arrtultrasound.examzify.com>

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

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