Candidate Study Guide for the Illinois Paramedic Licensure Examination

The following information is intended to help you prepare for the Illinois Emergency Medical Technician-Paramedic Licensure Examination. Part I of this study guide contains general information about the profession and testing procedures. Part II provides a content outline, lists the competencies covered in the examination, and identifies reference materials that support this examination. Part III includes sample questions to help you prepare for this test.

Part I  General Information

PURPOSE OF THE EXAMINATION  This examination has been developed in collaboration with Illinois Department of Public Health (IDPH) and representatives of the 11 Illinois Emergency Medical Service regions. Paramedic licensure is granted only to candidates who demonstrate sufficient knowledge of the U.S. Department of Transportation National Standard Curriculum for Paramedic as approved by IDPH.

TEST VALIDITY  The time limit for this examination is 2½ hours. This examination has been developed to meet strict standards of test fairness and validity to protect the health and safety of the public.

PHOTO ID  Each candidate must present a current and valid photo ID to be admitted to any of these examinations. Only a valid Driver’s License, Secretary of State ID card, consulate ID or current passport is acceptable as photographic identification. If the name on the photo ID does not match the name on the scheduled appointment, proof of legal name change also must be presented before the candidate can be admitted to an examination.

SPECIAL ACCOMMODATIONS  Any candidate who needs special accommodations in test-taking procedures because of a disabling condition must communicate that need in writing with his or her application. No accommodations can be arranged on the day of a test.

SCORING THE EXAMINATION  Candidates who pass this examination will receive their license as Paramedic from the Illinois Department of Public Health.

MISSING AN EXAMINATION  There are no "make-up" examinations. You may re-register when you receive your score report from CTS stating “consent” and pay any additional required fees.

RE-EXAMINATION  Candidates who fail the test will receive information to help them identify content areas on which they need to improve their performance to pass on a subsequent attempt. Candidates must register to take the test again through the resource hospital associated with their Paramedic training program.

(c) 2015, Continental Testing Services, Inc.
SCHEDULING  

After CTS approves your application, you must schedule a test date within 90 days at one of the approved PSI Test Centers. You may do so by using PSI’s online system at [www.psiexams.com](http://www.psiexams.com) or by calling PSI at 1-800-733-9267. All regular testing appointments must be scheduled at least two business days prior to the desired test date. You must reapply and pay a new test fee if you do not test within the 90-day window.

Testing locations are subject to change.

PSI Test Centers in Chicago and Springfield plus centers in Carbondale, Champaign, East Peoria, Evansville, IN, Galesburg, and Glen Ellyn are proctored onsite. The remaining locations use remotely proctored testing stations that monitor candidates with three digital cameras, an on-screen chat window and a microphone. Proctors in these locations communicate with candidates on-screen during the test and pause the exam whenever unauthorized persons or activity appear on any of the three video recordings or in audio picked up by built-in sensitive microphones. The proctor will pause the exam whenever a candidate leaves the testing station or an interruption occurs. If the reason for the interruption is not confirmed as an emergency, the test will end. All other rules are the same for examinations in on-site proctored and remotely proctored locations. Each test remotely proctored station also is equipped with noise-cancelling headphones to help candidates screen out distractions if they wish to use them.

Directions and other information about each test location appear later in this study guide and are available on the PSI website.
Instructions for scheduling a test using PSI’s 800 number

PSI provides an automated system to schedule your test via the telephone without having to speak with a Customer Service Registrar.

1. Call 800-733-9267, then Press 5
2. Stay on the line until the you hear the system begin (about 30 seconds)
3. You will be asked what you want to do: schedule, confirm, or retake a test
4. You will be asked if you know your ID# (this is your social security number)
5. The system will find your record and confirm the first few letters of your last name
6. The system will confirm the test
7. You will be asked what you want to do: schedule or request a bulletin
8. The system will use your zip code to find the closest test center
9. You will be given the closest test center
10. You will be given the available dates and times when you could take the test
11. You will select the date and time and the system will schedule you
12. You will be emailed a confirmation including the date and time of your testing appointment; the email includes directions to the PSI Test Center

If you prefer to speak to a Customer Service Registrar, they are available Monday through Friday, between 6:30 am and 7:00 pm and Saturday, between 10:00 am and 4:00 pm, Central Time.

- Call 800-733-9267, Select 5, then select * (star).

Instructions for scheduling a test online at www.psiexams.com


   - New Users
     - You can:
       - Create an account
       - Register for an examination
       - Schedule an examination

   - Returning Users
     - Sign in
     - Email Address: [ ]
     - Password: [ ]
     - Start in: [ ]
     - Remember me
     - Sign in
     - Clear
     - [ Forget Password? ]
     - [ Update email address ]

If you do not have an account, please click the below link:
- [ Create an Account ]

   If you are a new user at PSI, click on “Create an Account”.

   If you have already created an account in the PSI system, type in your email address and password.

   **VERY IMPORTANT STEP** You must enter your email address, your password and the spelling of your name in these screens EXACTLY as you have submitted them on your application to CTS because that is what CTS sent to PSI.

- A PSI staff member will answer to help you schedule your CTS exam.
2. If you already have an account in the PSI system, check the box “Check here to attempt to locate existing records for you in the system”.

3. Complete the following steps as shown below.

Select Government/State Licensing Agencies under Select Organization.

Select Illinois in Select Jurisdiction.

Select IL Department of Public Health in the box marked Select Account.

Enter your Social Security Number.

Click on Submit.
4. You are now ready to schedule. Click on Schedule for a test.

5. Enter your zip code or the city where you live. Click on the Search button.

If you want to select a center that is not shown, enter the name of the city or the zip code where that test center is located.
6. You will now see a list of available test dates and times based on your eligibility expiration date. Click on the date and time of your choice and select *Schedule*.

<table>
<thead>
<tr>
<th>Test Center</th>
<th>Available Date</th>
<th>Start Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHICAGO (ROOM A),</td>
<td>08/17/2013</td>
<td>8:30 AM</td>
</tr>
<tr>
<td>Illinois</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHICAGO (ROOM A),</td>
<td>09/03/2013</td>
<td>12:30 PM</td>
</tr>
<tr>
<td>Illinois</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CHICAGO (ROOM A),</td>
<td>09/03/2013</td>
<td>3:00 PM</td>
</tr>
<tr>
<td>Illinois</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **If there are no dates available, please call 800-733-9267 for assistance.**

7. A confirmation will appear that you can print by clicking on the *Print Details* button. This message also includes directions to the test center.

Exam: IL Paramedic
Sponsor: ILLINOIS DEPARTMENT OF PUBLIC HEALTH
Confirmation Number: C6061975
Test Center: CHICAGO (ROOM A)
Address: CHICAGO (ROOM A)
332 S. Michigan Avenue,
Suite 410,
Chicago,
Illinois,
USA
Test Schedule Date: 09/03/2013
Test Schedule Time: 3:00 PM

You must arrive at the test center 30 minutes before the start of your schedule time or you forfeit your examination fees and will not be allowed to take your scheduled examination.

Directions to Test Center: Take US-41S which becomes I-94E. Take the W Jackson Blvd exit (51F). Turn left on W Jackson Blvd. Turn right on S Michigan Ave.

8. You also will receive an email from PSI to confirm the test center, date and time you have selected to take your test.
9. A map to help you locate the test center also is available on the PSI website under Information Links.

<table>
<thead>
<tr>
<th>PSI CONFIRMS BY EMAIL</th>
<th>PSI sends each candidate an email to confirm the date and time of his/her testing appointment; the email includes directions to the PSI Test Center.</th>
</tr>
</thead>
<tbody>
<tr>
<td>RESCHEDULING</td>
<td>A testing appointment may be rescheduled up to two business days before the scheduled test date. Candidates who fail this examination must reapply after complying with the requirements for retesting based on the number of their prior attempts.</td>
</tr>
<tr>
<td>MISSING AN APPOINTMENT</td>
<td>Candidates who miss a testing appointment forfeit all fees and must reapply before they are eligible to schedule a new test date.</td>
</tr>
<tr>
<td>TEST SCORES</td>
<td>Candidates at on-site proctored test centers will receive an unofficial score report before they leave the PSI Test Center. Candidates in all other test centers will see their results on-screen at the end of the test. <em>None of these score reports can be used to apply for a license or certificate.</em> All candidates will receive their official score reports from CTS by mail after their test date. Candidates who pass will receive an application to apply for licensure with their CTS score report. Candidates who fail will receive a diagnostic report in their CTS score report indicating content areas in which they need to improve their scores.</td>
</tr>
</tbody>
</table>
MAPS TO PSI TEST CENTERS WITH ON-SITE PROCTORING

A larger version each map is available on the PSI website under Information Links.

PSI Test Center, Chicago

PSI Test Center, Springfield

College of DuPage, Glen Ellyn
Illinois Central College, East Peoria

**Test Center is Room L220 in the Library & Administration Building**

Ivy Technical Community College

3501 N. 1st Avenue, Evansville, IN

**Testing is in the Workforce Certification & Assessment Center**
Parkland College, Champaign

Assessment Center
Room A209
The Assessment Center is located on the second floor of the A wing. Follow signs to Admissions and Records and take any stair case to the second floor. Questions? Call 217-751-4112.

Carl Sandburg College, Galesburg

Southern Illinois University—Carbondale
900 South Normal Avenue
Woody Hall, Testing Services, B-228 or B-230

SIU-Carbondale
DIRECTIONS TO REMOTELY PROCTORED TEST LOCATIONS

These test center locations are subject to change. Check the PSI website for current details.

<table>
<thead>
<tr>
<th>LOCATION</th>
<th>DIRECTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Medical Transport</td>
<td>Advanced Medical Transport is located just south of Nebraska Avenue on Sterling Avenue in Peoria. A receptionist will direct candidates to the testing station.</td>
</tr>
<tr>
<td>Peoria 1718 North Sterling Avenue</td>
<td></td>
</tr>
<tr>
<td>Chicago State University</td>
<td>Chicago State University is located at 9501 South Martin Luther King Drive in Chicago. Testing is on 2nd floor of new Library building in Room 201. Parking on campus for $5. Nearest CTS Station: 0.6 miles from 95th Street Station on Red Line, with numerous bus routes to campus.</td>
</tr>
<tr>
<td>9501 S. Martin Luther King Drive Library Building, 2nd Floor, Room 201 Chicago, IL</td>
<td></td>
</tr>
<tr>
<td>College of DuPage – Bloomingdale Center</td>
<td>The College of DuPage Bloomingdale Center is in Town Square Shopping Center south of Lake Street at Schick and Bloomingdale Roads.</td>
</tr>
<tr>
<td>Town Square of Bloomingdale 162 S. Bloomingdale Road</td>
<td></td>
</tr>
<tr>
<td>College of DuPage – Westmont</td>
<td>Enter the College of DuPage Westmont Center by turning north onto Pasquenelli Drive off Ogden. Center entrance is immediately north of the bank.</td>
</tr>
<tr>
<td>650 Pasquenelli Drive Westmont, IL</td>
<td></td>
</tr>
<tr>
<td>College of DuPage – Naperville Regional Center</td>
<td>The College of DuPage Naperville Regional Center is on Rickert Drive. Turn north onto Rickert Drive from 75th Street two miles west of Washington Street. From Route 59, drive east on 75th Street to Rickert.</td>
</tr>
<tr>
<td>1233 Richert Drive Naperville, IL</td>
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<tr>
<td>College of Lake County – Grayslake</td>
<td>The Testing Center is in the main library on the first floor of the Grayslake campus.</td>
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<tr>
<td>19351 West Washington Street</td>
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<tr>
<td>College of Lake County – Waukegan</td>
<td>Take Belvidere (Route 120), Grand or Washington east to Genesee Street. The CLC Lakeshore Campus is on Genesee north of Washington and west of Sheridan Road.</td>
</tr>
<tr>
<td>33 N. Genesee Street Second Floor, Room N203</td>
<td></td>
</tr>
<tr>
<td>F&amp;R Services, Ferguson, MO</td>
<td>Exit I-70 to Florissant Road in Cool Valley. Follow Florissant Road to Church Street in Ferguson.</td>
</tr>
<tr>
<td>119 Church, Suite #223</td>
<td></td>
</tr>
<tr>
<td>Global Knowledge – Schaumburg</td>
<td>McConnor Parkway is located north of Woodfield Mall between Golf Road and I-90 east of Meacham Road.</td>
</tr>
<tr>
<td>1500 McConnor Parkway, Suite 500</td>
<td></td>
</tr>
<tr>
<td>Harper College Professional Center, Schaumburg</td>
<td>Harper Professional Center is located just west of Plum Grove Road on Higgins Road. Woodfield Mall is about two miles northeast of the Harper Professional Center at Golf and Meacham Roads.</td>
</tr>
<tr>
<td>650 East Higgins Road, Suite 9S</td>
<td></td>
</tr>
<tr>
<td>Illinois State University – Normal Fell Hall</td>
<td>The kiosk is in testing center in Fell Hall 396. Take the elevators or stairs to the third floor. University College Testing Services is on the left. A receptionist will escort the candidate to the kiosk.</td>
</tr>
<tr>
<td>396 100 North University Street</td>
<td></td>
</tr>
</tbody>
</table>
| **Joliet Junior College – Joliet**  
1215 Houbolt Road  
Academic Skills Center | Exit I-55 onto Route 52 East (Exit 253) to Houbolt. Turn right (South) to college entrance. |
|---|---|
| **Joliet Junior College – Romeoville**  
1125 West 135<sup>th</sup> Street, Room NC-80 | Exit I-55 southbound onto Weber Road. Drive south to Romeo Road (135<sup>th</sup> Street), then left (east) to Romeoville campus.  
Exit I-80 West to I-355 North/Veterans Memorial Tollway. Exit at Archer Avenue (IL 171), then right at S. Archer Avenue, then left onto Romeo Road. |
| **Millennium Center, Rockford**  
220 South Madison, Room 210  
Rockford, IL | Millennium Center is located just east of the Rock River at Madison and Walnut Streets. Check in with the receptionist on the first floor. |
| **New Horizons – St. Louis**  
2122 Kratky Road, Suite 200  
(near Page Avenue & Lindbergh Blvd.) | New Horizons is located northeast of the intersection of Page Avenue and Lindbergh Blvd. Enter Kratky Road from Page Avenue 0.1 miles east of Lindbergh. |
| **Oakton College – Skokie**  
7701 Lincoln Ave, Room A135 | Campus is between Howard and Niles Center Road on Lincoln in Skokie. Park in student lot in front of campus. Test center is Room A135. |
| **Prairie State College – Chicago Heights**  
202 S. Halsted Street  
Adult Training and Outreach Center (ATOC), Room 146  
Chicago Heights, IL | Prairie State College is located at South Halsted Street and Vollmer Road in Chicago Heights, Ill. The campus is about three miles south of Interstate 80 on Halsted. Testing is in the Adult Training and Resource Center Room 146. The ATOC is on Vollmer Road west of Halsted. |
| **Real Estate Institute – Niles**  
6203 W. Howard Street | REI is located at the corner of Howard Street and Merrimac Avenue in Niles, between Caldwell and Lehigh. |
| **Rend Lake College Marketplace Campus**  
Mount Vernon  
321 Potomac Blvd. | Exit I-57/64 at Broadway west, turn right on Potomac  
Rend Lake College Market Place is at end of Potomac  
Testing is in Studio RLC. Sign in at the desk for the  
RLC Cosmetology School. |
| **Rincon Center**  
3710 N. Kedzie  
Chicago, IL | Located one block north of Addison on Kedzie near the CTA Blue Line Addison stop at the Kennedy Expressway. The center has private parking for those who drive. |
| **South Suburban College**  
16333 S. Kilbourn Avenue, Room 5130  
Oak Forest, IL | Exit I-57 on 167 East to Kilbourn Avenue. Turn left on Kilbourn and drive three blocks to South Suburban College campus. Park in front of building. The campus also is served by bus routes 364-159th Street and 354 Harvey-Oak Forest Loop. |
Part II  Test Content Outline

This examination was developed in collaboration with a committee of representatives of the 11 Illinois Emergency Medical Service regions and staff from the Illinois Department of Public Health. Content areas on the test are outlined below. The examination reflects the U.S. Department of Transportation National Standard Curriculum for Paramedic as approved by the Illinois Department of Public Health.

**Paramedic**

1. **Preparation and Operations**  
   (10 questions)  
   A. EMS systems  
   B. Safety & wellness  
   C. Documentation  
   D. Communications  
   E. Medical/Legal/Ethics Issues  
   F. Incident management  
   G. Multiple & mass casualties

2. **Pathophysiology**  
   (10 questions)  
   A. Electrolysis  
   B. Diffusion/osmosis  
   C. Neuroendocrine regulation  
   D. Shock pathophysiology  
   E. Hypovolemic, cardiogenic & neurogenic shock  
   F. Multi-Organ Dysfunction Syndrom (MODS)  
   G. Alterations in cells & tissues  
   H. Acid-base balance

3. **Pharmacology**  
   (17 questions)  
   A. Sympathetic & parasympathetic NS  
   B. Medical administration  
   C. Drug calculations  
   D. Venous access  
   E. Indications, equipment, techniques

4. **Airway Management, Respiration and Ventilation**  
   (9 questions)  
   A. Airway management  
   B. Respiration  
   C. Artificial ventilation

5. **Patient Assessment**  
   (10 questions)  
   A. Primary assessment  
   B. History taking  
   C. Secondary assessment  
   D. Monitoring devices  
   E. Reassessment

6. **Shock & Resuscitation**  
   (5 questions)
7. **Medical Emergencies** *(54 questions)*
   A. Neurological disorders
   B. Abdominal/GI disorders
   C. Immunology
   D. Infectious diseases
   E. Endocrine disorders
   F. Psychiatric disorders
   G. Cardiovascular rhythms, pulmonary edema, nitroglycerin, morphine, vasopressors, VT/VF, channel blockers, trans pacing, cardioversion, physiology, electrophysiology, ECT interpretation, clinical pressure, R-L heart failure, cardiac arrest, hypertension emergencies, medications
   H. Toxicology
   I. Respiratory emergencies/asthma, emphysema, thromboembolism, hyperventilation, pneumothorax, chronic bronchitis, emergencies, pulmonary embolism & edema, hyperventilation
   J. Hematology
   K. GI-Renal
   L. Non-traumatic musculoskeletal
   M. Eyes, ears, nose & throat

8. **Trauma** *(24 questions)*
   A. Bleeding
   B. Chest trauma
   C. Abdominal/GI trauma
   D. Orthopedic trauma
   E. Soft tissue trauma
   F. Head, neck, facial & spine trauma
   G. Nervous system trauma
   H. Special trauma considerations
   I. Environmental trauma
   J. Multi-system trauma

9. **Special Populations** *(11 questions)*
   A. Pregnancy/obstetrics
   B. Gynecology
   C. Neonatal care
   D. Pediatrics
   E. Geriatrics
Recommended Study Materials

The following references support questions on this examination. These books may be available in public and academic libraries. They also are available purchased from retail stores or online. All candidates should prepare for this examination by studying one or more of these references.


Medication list for EMT-P from DOT Curriculum

In most instances, dosages are not tested as they vary from System to System unless listed below. Students should be prepared to answer questions on drug actions, indications, contraindications, and side effects.

- **adenosine (Adenocard)**
- **albuterol (Proventil) (2.5 mg usual first dose)**
- **amiodarone (may be mentioned with Lidocaine for Rx of ventricular dysrhythmias)**
- **aspirin**
- **atropine**
- **dextrose 50% 50 ml IVP (adult dose for hypoglycemia)**
- **diazepam (Valium) (peds dose: 0.2/0.5 mg IVP/IR)**
- **diphenhydramine (Benadryl)**
- **dopamine**
- **epinephrine 1:1000 0.3-0.5 mg for bronchospasm**
- **epinephrine 1:10,000 1 mg IVP/IO for code mgt.**
- **furosemide (Lasix)**
- **glucagon**
- **lidocaine**
- **midazolam (Versed)**
- **morphine**
- **naloxone (Narcan)**
- **nitroglycerin**
- **sodium bicarbonate**
- **vasopressin (may be mentioned with Epi 1:10,000 for Rx of V-fib and asystole)**
- **verapamil (offered as an alternative to diltiazem)**
The following abbreviations may appear in the EMT-Intermediate Examinations.

- ABCs: airway, breathing/ventilation, circulatory status
- ACE: angiotensin-converting enzyme
- ADA: Americans with Disabilities Act
- ADH: antidiuretic hormone
- AED: automated external defibrillator
- AIDS: acquired immune deficiency syndrome
- ALS: Advanced Life Support
- AMI: acute myocardial infarction
- APGAR: appearance, pulse, grimace, activity, respirations
- ANSI: American National Standards Institute
- ARDS: adult respiratory distress syndrome
- ASA: aspirin
- ATP: adenosine triphosphate (body’s energy source)
- AV: atrioventricular
- AVPU: Mental status responsiveness check:
  - alert, responds to verbal or painful stimuli, unresponsive
- BLS: Basic Life Support
- BP or B/P: blood pressure
- BPM: beats per minute
- BSI: body substance isolation
- BVM: bag valve mask
- CAD: coronary artery disease
- c-collar: cervical collar
- CDC: Center for Disease Control and Prevention
- CHEMTREC: Chemical Transportation Emergency Center
- CHF: congestive heart failure
- CISD: critical incident stress debriefing
- CISM: critical incident stress management
- c-spine: cervical spine
- CNS: central nervous system
- C/O: complains of or complaining of
- CO: carbon monoxide
- CO₂: carbon dioxide
- COBRA: Consolidated Omnibus Budget Reconciliation Act (federal legislation providing for EMTALA and continuation of health insurance
- COPD: chronic obstructive pulmonary disease
- CPR: cardiopulmonary resuscitation
- CQI: continuous quality improvement
- D₅W: 5% dextrose in water
- D₅₀W: 50% dextrose in water
- DCAP-BTLS: deformities, contusions, abrasions, punctures/penetrations, burns, tenderness, lacerations, swelling
- DCFS: Department of Children and Family Services
- DKA: diabetic ketoacidosis
- dl or dL: deciliter
- DNR: do not resuscitate
- DOT: Department of Transportation
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECG or EKG</td>
<td>electrocardiogram</td>
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<tr>
<td>ECRN</td>
<td>Emergency Communications Registered Nurse</td>
</tr>
<tr>
<td>ED</td>
<td>emergency department</td>
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<tr>
<td>EDD</td>
<td>esophageal detector device</td>
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<tr>
<td>EMD</td>
<td>emergency medical dispatcher</td>
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<tr>
<td>EMS</td>
<td>Emergency Medical Services</td>
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<tr>
<td>EOMs</td>
<td>extraocular movements</td>
</tr>
<tr>
<td>mEq/L</td>
<td>milli-equivalents per liter</td>
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<tr>
<td>ET</td>
<td>endotracheal</td>
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<tr>
<td>ETT</td>
<td>endotracheal tube</td>
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<tr>
<td>°F</td>
<td>degrees Fahrenheit</td>
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<tr>
<td>GCS</td>
<td>Glasgow Coma Score</td>
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<tr>
<td>GI</td>
<td>gastrointestinal</td>
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<td>gm</td>
<td>gram</td>
</tr>
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<td>gtts/min</td>
<td>drops per minute</td>
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<tr>
<td>Hazmat</td>
<td>hazardous materials</td>
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<tr>
<td>HCO₃⁻</td>
<td>bicarbonate</td>
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<tr>
<td>HEENT</td>
<td>head, eyes, ears, nose and throat</td>
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<td>HEPA mask</td>
<td>high efficiency particulate airborne mask</td>
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<td>HHN</td>
<td>hand held nebulizer</td>
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<tr>
<td>HHNC</td>
<td>hyperglycemic hyperosmolar nonketotic coma</td>
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<tr>
<td>HHNK</td>
<td>hyperglycemic hyperosmolar nonketotic</td>
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<tr>
<td>HHNS</td>
<td>hyperosmolar hyperglycemic nonketotic syndrome</td>
</tr>
<tr>
<td>HIPAA</td>
<td>Health Insurance Portability and Accountability Act</td>
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<tr>
<td>HIS</td>
<td>common bundle bridging AV node to bundle branches</td>
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<tr>
<td>HIV</td>
<td>human immunodeficiency virus</td>
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<td>HR</td>
<td>heart rate</td>
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<td>HTN</td>
<td>hypertension</td>
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<tr>
<td>ICS</td>
<td>incident command system</td>
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<tr>
<td>IM</td>
<td>intramuscular</td>
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<td>IMS</td>
<td>incident management system</td>
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<tr>
<td>IV</td>
<td>intravenous</td>
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<td>IVP</td>
<td>intravenous push</td>
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<tr>
<td>IVPB</td>
<td>intravenous piggy back</td>
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<td>IVR</td>
<td>idioventricular</td>
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<td>J</td>
<td>joules</td>
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<td>JVD</td>
<td>jugular venous distension</td>
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<tr>
<td>KED</td>
<td>Kendrick extrication device</td>
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<td>kg</td>
<td>kilogram</td>
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<td>L</td>
<td>liter</td>
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<td>lbs</td>
<td>pounds</td>
</tr>
<tr>
<td>LLQ</td>
<td>lower left quadrant</td>
</tr>
<tr>
<td>LMP</td>
<td>last menstrual period</td>
</tr>
<tr>
<td>L/min or lpm</td>
<td>liters per minute</td>
</tr>
<tr>
<td>LOC</td>
<td>level of consciousness</td>
</tr>
<tr>
<td>LR</td>
<td>lactated Ringers solution</td>
</tr>
<tr>
<td>LUQ</td>
<td>left upper quadrant</td>
</tr>
<tr>
<td>mA</td>
<td>milliamperes</td>
</tr>
<tr>
<td>MCI</td>
<td>multiple casualty incident</td>
</tr>
<tr>
<td>MDI</td>
<td>metered dose inhaler</td>
</tr>
</tbody>
</table>
Abbreviations (continued)

mEq  milli-equivalents
mg   milligram
MI   myocardial infarction
min  minute
mL or ml milliliters
mmHG millimeters of mercury
MSDS Material Safety Data Sheet
MVC motor vehicle collision or crash
NC   nasal cannula
NFPA National Fire Protection Association
NRM non-rebreather mask
NS   normal saline
NSR  normal sinus rhythm
NTG  nitroglycerin
O₂   oxygen
OB   obstetric
OPA  oropharyngeal airway
OPQRST onset, provokes, quality, radiation, severity, time
OSHA Occupational Health and Safety Administration
P    pulse
PAC  premature atrial contraction
Palp palpation
PASG pneumatic anti-shock garment
PCO₂ partial pressure of carbon dioxide
PCR  patient care report
Peds pediatrics
PERRL pupils equal and round, regular in size, react to light
pH   partial pressure of hydrogen (hydrogen ion concentration)
PICC peripherally inserted central catheter
PO₂  partial pressure of oxygen
PPE  personal protective equipment
PR or PRI P-R interval
psi  pounds per square inch
PSVT paroxysmal supraventricular tachycardia
PTH  parathyroid hormone
PtL  Pharyngo-tracheal lumen airway (dual lumen airway)
PVC  premature ventricular contraction
QRS  ECG wave representing ventricular depolarization
QT or QTI QT interval
R    respirations
RA   room air
RBC  red blood cell
RLQ  right lower quadrant
RR   respiratory rate
RSV  Respiratory Syncytial Virus
RTS  revised trauma score
Abbreviations (continued)

Rule of nines  Each 9%  Whole head, chest, abdomen, anterior each leg, posterior each leg, upper back, lower back/buttocks, whole arm

  1%  Perineum

RUQ  right upper quadrant
S&S  signs and symptoms
SA  sinoatrial
SAMPLE  symptoms, allergies, medications, past medical history, last oral intake, events surrounding the incident

SCBA  self-contained breathing apparatus
SIDS  sudden death infant syndrome
SL  sublingual
SOB  shortness of breath
SpO2  pulse oximetry
S-T  or ST  S-T segment
START  simple triage and rapid treatment
Sub-q  subcutaneous
T or Temp  temperature
TB  tuberculosis
TBSA  total body surface area
TIA  transient ischemic attack
TKO  to keep open
TSH  thyroid-stimulating hormone
V-fib or VF  ventricular fibrillation
VS  vital signs
V-tach or VT  ventricular tachycardia
WAP  wandering atrial pacemaker
WMD  weapons of mass destruction
y/o  year old

Reference Norms

Intrinsic pacing rates  SA node  60-100
                      AV node  40-60
                      Ventricle  20-40

PR interval  0.12 – 0.20 seconds
QRS duration  0.04 – 0.10 seconds

Carotid pulse  =  minimum systolic BP of 60 mmHg
Femoral pulse  =  minimum systolic BP of 70 mmHg
Radial pulse  =  minimum systolic BP of 80 mmHg

Upper limits of pacing mA  =  200

Airway, stroke & cardiac treatment questions reference AHA 2005 ACLS Guidelines
Stroke assessments using Cincinnati quick screen: change in speech, facial asymmetry and arm drift
Peds fluid resuscitation volumes are calculated at 20 mL/kg
1 kg  =  2.2 lb
Part III   Testing Procedures

YOU WILL NOT BE ALLOWED TO TAKE THE EXAM IF YOU DO NOT HAVE ONE OF THESE FORMS OF ID. ALL CANDIDATE IDS ARE SUBJECT TO SECURITY SCREENING TO VERIFY THEIR AUTHENTICITY.

- A valid US Driver’s License or State ID issued by one of the 50 states or US Territories.
- A valid US Passport or Military Active Duty ID.
- A valid consular ID

All candidates must agree to abide by PSI Test Center Rules:

- Video monitoring of each candidate occurs throughout the test.
- Video tapes may be reviewed if suspicious behavior occurs during a test.
- Name and address on the candidate ID must match the CTS application and PSI candidate registration records.
- **ALL NAME OR ADDRESS CHANGES MUST BE SUBMITTED TO CTS IN WRITING AT LEAST 10 DAYS BEFORE THE TESTING APPOINTMENT.**

No candidate may take this test if he/she:

- Does not present required photo ID when asked
- Refuses to sign the PSI Examinee Agreement
- Does not follow all PSI Test Center rules
- Tries to use prohibited items, including but not limited to books, notes, cell phones, cameras, pagers or other electronic devices during a test
- Gives or receives help during a test or test breaks
- Tries to record or copy any test questions
- Fails to follow PSI Test Center staff instructions
- Disrupts testing for other candidates

Test Center check-in procedures include:

- Cell phones, pagers or other electronic devices are **NOT PERMITTED** in the testing room.
- Personal items (purses, coats, etc.) MUST be secured outside the testing room.
- A digital photograph and a digital fingerprint will be taken during check-in.
- Candidates must sign in and out of the test center for all personal breaks during testing.
- The test timer continues during any candidate’s personal breaks.

Before you start the test, you will be asked to enter your social security number. It must be identical to the social security number you submitted in your application to take this examination.
You will be required to read and agree to the security agreement before the test will begin.

**PSI SECURITY AGREEMENT FOR EXAMINATIONS**

Test Center Location: ____________________________

State: ____________________________

SECURITY AGREEMENT:

I HAVE READ THE FOLLOWING PSI SECURITY AGREEMENT AND CONSENT TO TAKE THE LICENSING EXAMINATION UNDER THE CONDITIONS STATED HEREIN:

- I will not give or receive assistance while taking the test, including the use of unauthorized study material or unauthorized notes. I acknowledge that I have not taken any unauthorized study material or unauthorized notes into the testing area.
- I will maintain the confidentiality of the test.
- I will not have in my possession a cell phone, pager, or other unauthorized materials.
- I will inform the proctor when needing to use the rest room, but I understand that leaving the building at any time before completing the exam is prohibited.
- I understand that violating the confidential nature of the licensing test can result in severe civil or criminal penalties, invalidation of test scores, reports to the authorized agency.

Note: If a candidate refuses to consent to the conditions of this PSI Security Agreement, the proctor will notify the candidate that he/she will not be authorized to take the examination. PSI Headquarters will be so informed. This form is retained as a permanent part of the candidate file.

[AGREE] [DISAGREE]

You will be asked to confirm your name, social security number and the examination for which you are registered before you can begin.

Welcome to the Test of Essential Academic Skills V (TEAS) C1

We have the following information about you:

Name: PSI Demo
Candidate ID: 211524005
Test: Test of Essential Academic Skills V (TEAS) C

If ANY of this information is not correct, please contact the Proctor immediately!

If all the information is correct you may proceed by pressing the Enter key or Click on the Enter button.

Enter  Back

Before you start your examination, an introductory tutorial to the computer and keyboard will be provided on the computer screen. The time you spend on this tutorial, up to 15 minutes, DOES NOT count as part of your examination time.
Taking this examination by computer does not require any computer experience or typing skills. You will use fewer keys than you use on a touch-tone telephone. All response keys are colored and have prominent characters. An illustration of the special keyboard is shown here. **You may also use the mouse.**

**The Keyboard:**

The keyboard used for PSI's examinations is a standard keyboard, however only a few keys are actually used for the exam. You may also use the mouse.

![Keyboard Illustration](image)

**Yellow Answer Keys**

The candidate will use only the following colored keys to answer the test items. Select the key and select ENTER.

- Yellow key marked 1 for response 1.
- Yellow key marked 2 for response 2.
- Yellow key marked 3 for response 3.
- Yellow key marked 4 for response 4.
- Yellow key marked 5 for response 5.  

**NOTE: Use only Answer Keys 1-4 in this test.**

![Enter and Next Keys](image)

The green ENTER (or NEXT) key enters your responses and moves you through the test.

You MUST press ENTER (or NEXT) to “record” your response.

**IMPORTANT**

PRESS THE ENTER KEY OR THE NEXT KEY ONCE AND RELEASE IT IMMEDIATELY. HOLDING THE ENTER KEY OR NEXT KEY DOWN MAY CAUSE YOU TO SKIP PAST ONE OR MORE QUESTIONS.
The green BACK key moves you to the previous question. Each time you press BACK, you will move backwards by one screen.

**Blue MARK Key**

The blue MARK Key allows you to mark questions for later review. Press the MARK key again to remove the MARK. Changing an answer does not remove the MARK on a question.

**Blue COMMENT Key**

The blue COMMENT Key allows you to enter comments about a question.

**Yellow ERASE Key**

The yellow ERASE Key clears (erases) any response you have entered for a question.

**Red HELP Key**

The red HELP Key provides a brief summary of each key's functions. You can press HELP at any time.

**Green GOTO Key**

The green GOTO Key gives you four options for viewing your test.

**GOTO Option 1: VIEW ALL**

VIEW ALL allows you to see all of the items on the test, starting with Question 1, one at a time. This is the default setting for the test.

**GOTO Option 2: VIEW MARKED**

VIEW MARKED allows you to see only those questions you have marked for review starting with the first MARKED question. You MUST press the MARK key again to remove the MARK. Changing an answer to a question does not remove the MARK.

**GOTO Option 3: VIEW UNANSWERED**

VIEW UNANSWERED allows you to see only those questions you have left blank, starting with the first unanswered question.

**GOTO Option 4: VIEW SPECIFIC**

VIEW SPECIFIC allows you to see any question you want to see by entering the question number.
Status Bar

The "status bar" at the top of the examination screen gives the status of the current test.

- "Question: 3 of 40" indicates you are on QUESTION number 3 out of a total of 40 items.
- "Answered" and "Unanswered" indicate you have ANSWERED 2 items, and there are 1 UNANSWERED item.
- "Marked" means you have MARKED 0 items that you may come back to review later.
- "View" indicates all items on the test are available to you for VIEWING. (see GOTO button.)
- "Time Left" indicates how many minutes you have remaining to take this test.

PRACTICE QUESTIONS

Each candidate begins with a Test Tutorial to practice answering questions and review the computer testing process.

FUNCTION BUTTONS

The “Function Bar” at the top of the screen provides mouse-click access to the features available on the current test. These also are available by using the labeled keys on the keyboard.

The on-screen calculator is available to clicking on this button on the screen. The calculator allows the candidate to perform simple calculations during the exam.
ENDING THE TEST

WHEN YOU ARE READY TO END THE TEST:

- Press the green END key when you are ready to end your test.
- The time you have left to take this test will be shown.
- You will be asked TWICE to confirm that you wish to end the exam.
- You CANNOT change any answers on this test after you confirm that you are ready to end this test.

Green END Key

Are you sure that you want to END the test?
You still have 30 minutes remaining for this test. 
NOTE: You CANNOT return to review or answer any questions after you END this test.

Press the “ENTER” key or click on the “ENTER” button to finish this test
Press the “BACK” key or click on the “BACK” button to return to the current test

Are you sure you want to end the test? 

1. Please type "YES" in the box below.
2. Press the "NEXT" key or click on the "NEXT" button to end this test.

IF YOU ARE NOT READY TO END THIS TEST, PRESS THE "BACK" KEY OR THE "BACK" BUTTON TO RETURN TO THE TEST.
SCORE REPORTS

Candidates who achieve a score of at least 75 will receive a preliminary report such as this at the test center. An official CTS letter will confirm their test results and provide further instructions on obtaining your license.

Candidates who achieve a score below 75 will receive a preliminary report such as this at the test center. An official CTS letter will confirm their test results and provide further instructions about scheduling future attempts.
Part IV  Sample Questions

All questions on this examination are multiple-choice with one correct answer. Each question is supported by study materials cited in this bulletin. The answer key appears after these questions.

**NOTE:** ALL REFERENCES TO EMT IN THIS EXAMINATION REFER TO EMT-PARAMEDIC UNLESS SPECIFICALLY STATED OTHERWISE IN THE QUESTION

1. Which of these is *NOT* required to prove negligence against an EMT?
   A. Motive  
   B. Duty to act  
   C. Breach of duty  
   D. Proximate cause

2. What do all etiologies and stages of shock have in common?
   A. Tachycardia  
   B. Hypotension  
   C. Cellular hypoxia  
   D. Cool, pale, moist skin

3. A drug comes packaged 2 mg/10 ml. How many milliliters should be administered to a patient who is prescribed to receive a dose of 0.5 mg?
   A. 0.1  
   B. 0.25  
   C. 1.0  
   D. 2.5

4. Which of these is an indication for performing a needle cricothyrotomy on a patient?
   A. Massive facial trauma when intubation and/or bag mask ventilation is unsuccessful  
   B. Partial airway obstruction if patient cannot speak or cough  
   C. Tension pneumothorax if ventilatory distress is severe  
   D. Intubation equipment is not available

5. When performed correctly, endotracheal intubation
   A. reduces the risk of aspiration.  
   B. should be performed before defibrillation.  
   C. should be accomplished in 40 seconds or less.  
   D. can only be used in spontaneously breathing patients.
6. Which of these symptoms is \textit{NOT} typically associated with a patient experiencing renal calculi?

A. Pain radiating to the groin
B. Unilateral flank pain
C. Hematuria
D. Fever

7. What injury occurs when compression forces are applied directly to the top of the head and are transmitted to the cervical spine?

A. Hyperextension
B. Axial loading
C. Hyperflexion
D. Distraction

8. An adult patient has partial thickness burns of the chest, abdomen, perineum and the entire anterior surface of both legs. Using the Rule of Nines, how much of total body surface area has been burned?

A. 19%
B. 28%
C. 37%
D. 55%

9. A patient from a fire has severe respiratory distress, a hoarse voice, soot around the mouth and nares, respirations of 32 and stridor. Which of these is the best intervention for this patient?

A. Intubation
B. Fluid resuscitation
C. Ventilation by mouth to mask
D. Nebulized bronchodilator treatment

10. Which of the following findings is the most concerning when treating a patient with a suspected head injury?

A. Pulse oximetry decreases to 93
B. Pulse oximetry decreases from 95 to 92
C. Glasgow Coma Score decreases from 13 to 12
D. Glasgow Coma Score decreases from 13 to 10
11. An unrestrained victim of a high-speed MVC has a bruise over the sternum and appears pale and anxious. VS: BP in the right arm 120/80, left arm 110/72; P 120; R 20; SpO₂ 96%; ECG ST. Neck veins are flat, breath sounds are clear and equal, heart tones are normal, abdomen is soft and non-tender; femoral and pedal pulses are diminished. What injury should the paramedic suspect?

A. Cardiac tamponade  
B. Massive hemothorax  
C. Thoracic aortic disruption  
D. Blunt cardiac injury

12. Which of these refers to pain after release of the hand during palpation of a patient’s abdomen?

A. Shifting dullness  
B. Rebound tenderness  
C. Abdominal guarding  
D. Diaphragmatic compensation

13. What are albuterol and metaproterenol?

A. Parasympatholytic bronchodilators  
B. Parasympathomimetic bronchodilators  
C. Sympatholytic bronchodilators  
D. Sympathomimetic bronchodilators

14. Hyperventilation syndrome causes

A. excess elimination of O₂.  
B. excess elimination of CO₂.  
C. excess accumulation of CO.  
D. excess accumulation of CO₂.

15. A 65 y/o patient with COPD presents with sudden onset of right-sided chest pain and shortness of breath after coughing vigorously. Neck veins are flat, the trachea is midline, lung sounds are absent on the right and normal on the left. Assessment reveals no fever or hemoptysis. VS: BP 132/78, P 110, R 30 and shallow, SpO₂ 92%. What should a paramedic suspect?

A. Spontaneous pneumothorax  
B. Hyperventilation syndrome  
C. Pulmonary embolism  
D. Pleurisy
16. Identify this rhythm.

![EKG Image]

A. Ventricular fibrillation
B. Premature ventricular contractions
C. Polymorphic ventricular tachycardia
D. Monomorphic ventricular tachycardia

17. Identify this rhythm.

![EKG Image]

A. Sinus rhythm with premature atrial contractions
B. Second degree AV block Mobitz II
C. Second degree AV block Mobitz I
D. Complete heart block

18. Which of the following correctly describes the pharmacologic action of furosemide (Lasix) when administered to a patient in pulmonary edema?

A. It causes vasoconstriction to decrease venous capacitance and improve preload.
B. It causes vasodilation to increase venous capacitance and decrease preload.
C. It decreases water retention by the adrenal glands to improve circulation.
D. It increases water retention by the kidney to improve circulation.

19. Which of these findings is associated with Cushing’s triad in the presence of increased intracranial pressure?

A. Increased heart rate
B. Jugular vein distention
C. Increasing systolic blood pressure
D. Decreasing systolic blood pressure
20. Which of these is more commonly found in a pediatric patient with a high fever than in an adult?

A. Seizure  
B. Altered LOC  
C. Slurred speech  
D. Neurological deficit

21. Which body systems are most affected by narcotics and opiates?

A. Central nervous and gastrointestinal  
B. Gastrointestinal and respiratory  
C. Respiratory and integumentary  
D. Central nervous and respiratory

22. Which of these conditions is NOT commonly associated with sickle cell anemia?

A. Renal disease  
B. Abdominal pain  
C. Excessive bleeding  
D. Musculoskeletal pain

23. Which of these is the primary objective when responding to a behavioral emergency?

A. De-escalate the situation  
B. Ensure scene safety  
C. Notify law enforcement  
D. Contact a psychologist

24. A patient in her third trimester of pregnancy c/o a headache, spots in her visual field and weight gain of 20 pounds in the last two weeks. Skin is pale, warm and dry with generalized edema. Breath sounds are clear bilaterally. VS: BP 160/100, P 80, RR 24. What should the EMT suspect?

A. Retinal detachment  
B. Hypertensive crisis  
C. Pre-eclampsia  
D. Eclampsia

25. What complication should a paramedic anticipate if there is meconium in the amniotic fluid?

A. Profound hypoglycemia  
B. Fetal tachycardia and CHF  
C. An infant with a birth defect  
D. Primary or secondary apnea
26. Which of these is the preferred site for intraosseous access on a pediatric patient?
   A. Distal femur
   B. Proximal tibia
   C. Distal humerus
   D. Proximal radius

27. Where must an Illinois EMT report suspected elder abuse?
   A. Emergency department staff
   B. The local states attorney
   C. The elder abuse hotline
   D. The local police

28. Which of these biological agents would lead to nausea, vomiting and “food poisoning” symptoms?
   A. Salmonella
   B. Botulism
   C. Anthrax
   D. Ricin

Answers for EMT-P Sample Questions
1. A
2. C
3. D
4. A
5. A
6. D
7. B
8. C
9. A
10. D
11. C
12. B
13. D
14. B
15. A
16. D
17. B
18. B
19. C
20. A
21. D
22. C
23. B
24. C
25. D
26. B
27. C
28. A

Paramedic Practice Test

CTS has developed a 100-question practice test for Paramedic candidates that uses questions from the Paramedic Item Bank. All practice test questions have been validated and are supported by the same references that support the questions on the full Paramedic examinations. Candidates will receive an email with instructions for taking the practice test after they complete the eligibility requirements for this examination. Each candidate is provided one free attempt on the practice test in a 12-month period. Additional attempts on the practice test also are available for $10 each.

Each practice test score report provides information about how the candidate performed in each content area on the test. Candidates who score below 70 percent in any content area may benefit from further study in those sections before they take the full 150-question Paramedic examination at a PSI test center.