

Pathophysiology

	Health Science Event			
ı	Eligible Divisions: Secondary & Postsecondary / Collegiate	Round 1: 100 Q test in 90 minutes	Digital Upload: NO	Ì

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Solo Event: 1 competitor		



New for 2024 - 2025

New resources from event partner, iCEV have been added. Editorial updates have been made.

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Make sure to read the Texas General Rules and Regulations for the updated "Electronic Device Policy".

Area Spring Leadership Conference The online test for Area will be given in December.

The top 3 individual scores from each Area will advance to the State Leadership Conference.

Texas State Leadership Conference

The State written exam will be given in person at Kalahari to those who advanced from each Area. The top 3 individual scores from State will advance to ILC.

Event Summary

Pathophysiology allows members to gain knowledge and skills regarding pathophysiology concepts. This competitive event consists of a written test with a tiebreaker essay question. This event aims to inspire members to learn about the anatomy and physiology of human diseases impacting the health community.

Sponsorship

HOSA-Future Health Professionals is appreciative for the sponsorship of Pathophysiology by iCEV.



Dress Code

Proper business attire or official HOSA uniform. Bonus points will be awarded for proper dress.

Competitor Must Provide:

Photo ID
Two #2 lead pencils (not mechanical) with eraser

General Rules

1. Competitors must be familiar with and adhere to the General Rules and Regulations.

Official References

- 2. The references below are used in the development of the test questions.
 - a. iCEV Pathophysiology and Anatomy and Physiology Courses
 - b. Frazier. Essentials of Human Diseases and Conditions. Elsevier, Latest edition.
 - c. _Zelman, Mark; Raymond, Jill; Holdaway, Paul; Dafnis, Elaine; Mulvihill, Mary Lou. Human Diseases A Systemic Approach. Pearson. Latest edition.

Written Test

- 3. <u>Test Instructions:</u> The written test will consist of 100 multiple-choice items in a maximum of 90 minutes.
- 4. One essay question will be administered with the original test.
- 5. **Time Remaining Announcements:** There will be NO verbal announcements for time remaining during ILC testing. All ILC testing will be completed in the Testing Center, and competitors are responsible for monitoring their own time.

6. Test Plan

The test plan for the Pathophysiology Test is:

- Disease Process & Terminology (includes cancer & neoplasms) 12%
- Body Systems

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Integumentary - 8%
Musculoskeletal - 10%
Circulatory & Lymphatic - 12%
Respiratory - 8%
Digestive - 12%
Endocrine - 8%
Nervous & Senses - 10%
Reproductive - 6%
Urinary - 6%
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- Mental Disorders 8%
- 7. Sample Test Questions
 - 1. What area of pathophysiology study is concerned with the examination of the whole tissue? (iCEV online course)
 - A. Cytopathology
 - B. Forensic pathology
 - C. Hematopathology
 - D. Histopathology
 - 2. Which type of shock is caused by a severe allergic reaction? (Zelman pp 107)
 - A. Anaphylactic
 - B. Cardiogenic
 - C. Hypovolemic
 - D. Neurogenic
 - 3. What neurotransmitter is produced insufficiently in a patient with Parkinson's disease? (Frazier pp 560)
 - A. Aldosterone
 - B. Dopamine
 - C. Gamma globulin
 - D. Prednisone

Final Scoring

8. In case of a tie, the essay will be judged and used to break the tie.