

Outline for:

Discipline A Challenge – **Anatomy, Physiology, and Terminology**

Category I – Word Building and Definitions

Sub-Cat 1 – Roots or Stems

Sub-Cat 2 - Prefixes

- a. - relating to time and place
- b. - relating to size
- c. - relating to type
- d. - describing position
- e. - describing direction
- f. - describing number
- g. - denoting color

Sub-Cat 3 – Suffixes

- a. - denoting state of condition
- b. - relating to medical actions
- c. - associated with small size

Sub-Cat 4 – Word Terminals

- a. - terminals that change word roots to nouns
- b. - terminals that change word roots to adjectives or verbs
- c. - terminals that changes single words to plural words

Sub-Cat 5 – Medical Terms

- a. - general medical terms
- b. - medical instruments
- c. - laboratory tests names
- d. - medical specialties
- e. - diagnostic procedures
- f. - surgical procedures
- g. - pharmacy terms

Sub-Cat 6 – Medical Abbreviations

- a. - general medical abbreviations
- b. - diagnostic abbreviations
- c. - surgical abbreviations
- d. - medical specialties abbreviations
- e. - pharmacy abbreviations

Category II – Use of Terminology

Sub-Cat 1 – Spelling

- a. - general spelling rules

Sub-Cat 2 – Selection and Use

- a. - data entry and records
- b. - charts and documents
- c. - patient education
- d. - medicolegal documentation

Sub-Cat 3 – Reference Sources

- a. - medical dictionaries
- b. - other medical references

Category III – Anatomy and Physiology

Sub-Cat 1 – Body Structure and Anatomical Descriptors

- a. - structural units; cells, tissues, organs, systems
- b. - anatomical divisions
- c. - positions and directions
- d. - body planes
- e. - cellular division
- f. - homeostasis

Sub-Cat 2 – Digestive System

- a. - components/structure; mouth, esophagus, stomach, small intestine, and large intestine
- b. - function
- c. - interrelationships
- d. - disorders and diseases

Sub-Cat 3 – Urinary System

- a. - components/structure; kidneys, ureters, urinary bladder, and urethra
- b. - function
- c. - interrelationships
- d. - disorders and diseases

Sub-Cat 4 – Reproductive System

- a. - components/structure; male reproductive organs, female reproductive organs, pregnancy, birth, and contraception
- b. - function
- c. - interrelationships
- d. - disorders and diseases

Sub-Cat 5 – Nervous System

- a. - components/structure; peripheral and central nervous systems
- b. - function
- c. - interrelationships
- d. - disorders and diseases

Sub-Cat 6 – Cardiovascular System

- a. - components/structure; heart, blood vessels, and lymphatic system
- b. - function
- c. - interrelationships
- d. - disorders and diseases

Sub-Cat 7 – Respiratory System

- a. - components/structure; lung and pleura
- b. - function
- c. - interrelationships
- d. - disorders and diseases

Sub-Cat 8 – Skeletal System

- a. - components/structure; types of muscle tissue, skeletal muscle action, muscle tone, muscle attachment, sheaths and bursae, and major skeletal muscles
- b. - function
- c. - interrelationships
- d. - disorders and diseases

Sub-Cat 9 – Integumentary System

- a. - components/structure; structure of skin
- b. - function
- c. - interrelationships
- d. - disorders and diseases

Sub-Cat 10 – Endocrine System

- a. - components/structure; pituitary gland, thyroid gland, parathyroid glands, adrenal glands, pancreas, thymus gland, pineal body, and gonads
- b. - function
- c. - interrelationships
- d. - disorders and diseases

Sub-Cat 11 – Immune System

- a. - components/structure; organs of the immune system, cell markers, lymphocytes, complement system, cytokines, and natural killer (NK) cells
- b. - function
- c. - interrelationships
- d. - disorders and diseases

Sub-Cat 12 – Sensory Systems

- a. - components/structure; eye/sight, ear/hearing, nose/smell, tongue/taste, and skin/touch
- b. - function
- c. - interrelationships
- d. - disorders and diseases

Question Development Instructions and Form

The **CEC** system's challenge tests use several question banks that have a variety of four answer multiple-choice questions. Each question in the bank has a stem, the main idea, with three plausible distracters and the correct answer. There are also three intellectual types of questions. These different types are: recall, define, and evaluation.

The preceding outline for **Anatomy, Physiology, and Terminology** provides an essential breakdown of discipline A. It is laid out in categories, sub-categories, and competencies. Each question developed needs to be marked with the discipline's letter. The category's Roman numeral and the sub-category's number. (It is **not** important or necessary to assign your questions down to the competency level.)

Each of your questions also needs to be labeled with a difficulty level. The four levels are: *Simple*, *Average*, *Difficult*, and *Extremely Difficult*. If the question covers a topic that you believe virtually everyone in the field knows or should know, mark it as *Simple*. If the topic is widely known by a simple majority of the people using or studying in this area, it can be marked as *Average*. If you believe the topic is known by less than 1/3rd of the people working in this area, mark the question as *Difficult*. If the topic is specialized or is simply known by someone who is an expert in the field, mark the question as *Extremely Difficult*.

It is important that our challenge tests measure an accurate sampling of our contestants' skills and knowledge in the discipline. Therefore, questions cannot be someone's opinion, belief, or supposition. It is important that all questions are able to be validated from at least one credible source. You will be asked to give the source material for each question submitted. Example:

Discipline: A Category: III Sub-Cat: 6 Difficulty: Average

Stem: Arterial blood leaves the heart through the _____ .

Correct Answer: aorta

Distracter 1: femoral artery

Distracter 2: radial artery

Distracter 3: vena cava

Source Name: Gray's Anatomy Edition/Copyright: 1995 Page/s: 450

Comments: _____

Submitting Institution ABC School Author of (?)'s Last Name Smith

Question Development Form

Discipline: ___ Category: ___ Sub-Cat: ___ Difficulty: _____

Stem: _____.

Correct Answer: _____

Distracter 1: _____

Distracter 2: _____

Distracter 3: _____

Source Name: _____ Edition/Copyright: _____ Page/s: _____

Comments: _____

Submitting Institution _____ Author of (?)’s Last Name _____

Discipline: ___ Category: ___ Sub-Cat: ___ Difficulty: _____

Stem: _____.

Correct Answer: _____

Distracter 1: _____

Distracter 2: _____

Distracter 3: _____

Source Name: _____ Edition/Copyright: _____ Page/s: _____

Comments: _____

Discipline: ___ Category: ___ Sub-Cat: ___ Difficulty: _____

Stem: _____.

Correct Answer: _____

Distracter 1: _____

Distracter 2: _____

Distracter 3: _____

Source Name: _____ Edition/Copyright: _____ Page/s: _____

Comments: _____

Submitting Institution _____ Author of (?)’s Last Name _____