

# DUMPS ARENA

## HESI Admission Assessment Exam (A2)

Test Prep HESI-A2

Version Demo

Total Demo Questions: 20

Total Premium Questions: 620

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## Topic Break Down

<b>Topic</b>	<b>No. of Questions</b>
<b>Topic 1, Math</b>	<b>93</b>
<b>Topic 2, Reading</b>	<b>60</b>
<b>Topic 3, Vocabulary</b>	<b>114</b>
<b>Topic 4, Grammar</b>	<b>80</b>
<b>Topic 5, Biology</b>	<b>70</b>
<b>Topic 6, Chemistry</b>	<b>74</b>
<b>Topic 7, Physics</b>	<b>10</b>
<b>Topic 8, Anatomy and physiology</b>	<b>119</b>
<b>Total</b>	<b>620</b>

**QUESTION NO: 1**

What is the purpose of scientific notation?

- A. There is no purpose.
- B. The purpose is to handle bigger numbers more easily.
- C. The purpose is to handle smaller numbers more easily.
- D. The purpose is to handle both smaller and bigger numbers more easily.

**ANSWER: D****Explanation:**

Scientific notation allows us to better describe tiny and enormous numbers more easily.

**QUESTION NO: 2**

Which word in the following sentence is the subject?

The opera singer's solo had a profound impact on the audience.

- A. solo
- B. impact
- C. audience
- D. opera singer

**ANSWER: A****Explanation:**

The subject of a sentence is the person, place, thing, or idea that is doing or being something. Ask yourself: what "had" an impact? The answer is the "solo." That must be the subject.

**QUESTION NO: 3**

What would be considered the dependent clause in this sentence?

"The students could finally see the bus, which was running 15 minutes behind schedule."

- A. which was running 15 minutes behind schedule

- B. running 15 minutes behind schedule
- C. The students could finally see the bus
- D. could finally see the bus

**ANSWER: A**

**Explanation:**

“which was running 15 minutes behind schedule” is correct. The dependent clause in a sentence is the part which cannot stand alone as a complete sentence and functions a noun, adjective, or adverb.

**QUESTION NO: 4**

Please select the combination of words that makes these sentences correct:

“I’m searching for good \_\_\_\_ that will help me get my finances in order. Can you \_\_\_\_ me on what I should do?”

- A. advise, advise
- B. advice, advise
- C. advise, advice
- D. advice, advice

**ANSWER: B**

**Explanation:**

Advice is a noun and is the term used for information given in the first sentence. Advise is a verb, and is the action word in the second sentence.

**QUESTION NO: 5**

What is the normal pH of blood?

- A. 7.0-7.5
- B. 7.25-7.35
- C. 7.50-7.65
- D. 7.35-7.45

**ANSWER: D**

**Explanation:**

The normal pH of the blood is between 7.35-7.45. Anything less than that would be considered acidosis, anything higher would be alkalosis.

**QUESTION NO: 6**

Which is not true of synovial joints?

- A. They are found in the intervertebral discs of the spinal column.
- B. They are the most common joint in the body.
- C. They are the most moveable joint type in the body.
- D. They have a fluid-filled capsule that surrounds their articulating surface.

**ANSWER: A****Explanation:**

Instead of a synovial joint, the intervertebral discs of the spinal column form a fibrocartilaginous joint, which allows slight movement of the vertebrae of the spine.

**QUESTION NO: 7**

Select the meaning of the underlined word in the sentence.

The doctors who were participating in rounds wanted to know the patient's status as of this morning.

- A. bias
- B. peak
- C. condition
- D. cognizance

**ANSWER: C****QUESTION NO: 8**

A student is observing a chemical reaction occurring with visible bubbling. The bubbling eventually stops. The student can see that some of the original reactants are still intact inside the beaker, so he knows that not all the reactant has been used up. Therefore, the student knows he is now observing:

- A. A failed reaction.

- B. Equilibrium.
- C. A decrease in temperature.
- D. A completed reaction.

**ANSWER: B**

**Explanation:**

The student is now observing equilibrium, during which reactants are forming products at the same rate that products are forming reactants.

**QUESTION NO: 9**

What word meaning “to make things worse” fits best in the sentence?

The doctor had prescribed an antibiotic to cure the patient’s infection, which had \_\_\_\_\_ matters by causing a pruritic rash.

- A. exacerbated
- B. exhilarated
- C. augmented
- D. mistreated

**ANSWER: A**

**QUESTION NO: 10**

Initially, scientists suspected a high dietary calcium intake of increasing the risk of kidney stones. A high intake of calcium, however, reduces the urinary excretion of oxalate, which is thought to lower the risk. As a result, the concept that a higher dietary calcium intake increases the risk of kidney stones, and the mechanism underlying their formation, required examination. Stanford researchers studied the relationship between dietary calcium intake and the risk of symptomatic kidney stones in a cohort of 35,119 men ranging in age from 40 to 75 years old who had no history of kidney stones. Dietary calcium was measured by means of a semi-quantitative food-frequency questionnaire in 1998. During four years of follow-up, 535 cases of kidney stones were documented by LifeWork analysts. After adjustment for age, dietary calcium intake was inversely associated with the risk of stones; in fact, a high calcium intake decreased the risk of symptomatic kidney stones. Surprisingly, intake of animal protein was directly associated with the risk of stone formation.

According to the passage, dietary calcium intake

- A. was measured by means of a semi-quantitative medical examination.
- B. was discovered to decrease the chance of symptomatic kidney stone formation, after adjustment for age.
- C. increases the excretion of oxalate through the urinary tract.
- D. is impossible to accurately measure.

**ANSWER: B**

**Explanation:**

According to the author, dietary calcium intake "was measured by means of a semi-quantitative food-frequency questionnaire," not "by means of a semi-quantitative medical examination." The correct answer is a conclusion of the study discussed in the passage. The fact that 'daily calcium intake decreases the excretion of oxalate through the urinary tract,' is given as background information in the passage's second sentence.

**QUESTION NO: 11**

Which of the following is correct?

- A.  $4/8 = 8/17$
- B.  $5/12 = 15/24$
- C.  $3/4 = 9/12$
- D.  $2/3 = 7/10$

**ANSWER: C**

**Explanation:**

Multiply  $3/4$  by  $3/3$  to get  $9/12$ .

$$3/4 \times 3/3 = 9/12.$$

We have introduced a fraction  $3/3$  which is actually equal to 1. It's like  $3/4 \times 1 = 3/4$ ; by introducing 1, we're not changing the equation.

We just used  $3/3$  instead of 1. Therefore,  $3/4 \times 1 = 3/4$ ;  $3/4 \times 3/3 = 9/12$ ;  $9/12 = 9/12$ .

**QUESTION NO: 12**

Select the meaning of the underlined word in the sentence.

Gloves are a required precaution when dealing with blood and other bodily fluids.

- A. recommendation
- B. situation
- C. safeguard
- D. accommodation

**ANSWER: C**

**QUESTION NO: 13**

What is the function of tRNA during DNA transcription?

- A. tRNA bonds together amino acids and then releases them to create an elongated chain of amino acids.
- B. tRNA contains codons during DNA transcription.
- C. tRNA is the piece of DNA produced during transcription.

D. tRNA brings the amino acids to the site of synthesis.

**ANSWER: D**

**Explanation:**

tRNA brings the amino acids to the site of protein synthesis. Ribosomes bond together amino acids and then release them to create an elongated chain of amino acids. tRNA contains anticodons, not codons, and mRNA is the new piece of DNA produced.

**QUESTION NO: 14**

A rat can finish a maze in about 3 minutes. If a small backpack is put on the rat so it reduces its speed by 50%, how much longer will it take the rat to finish the maze?

- A. 3 minutes
- B. 6 minutes
- C. 10 minutes
- D. 12 minutes

**ANSWER: A**

**Explanation:**

If the rat's speed is reduced by 50%, then it will take the rat twice as long, or 6 minutes. This is 3 minutes longer than it took before.

**QUESTION NO: 15**

Which of these is not a part of the body's chemical defense system against infection?

- A. lysozyme
- B. agranulocyte
- C. urine
- D. hydrochloric acid

**ANSWER: B**

**Explanation:**

Agranulocytes are a type of white blood cell and therefore are not a part of the body's chemical defense system.

**QUESTION NO: 16**

Which of these is a disease not caused by bacteria?

- A. cholera
- B. syphilis
- C. diphtheria
- D. Parkinson's

**ANSWER: D****Explanation:**

Parkinson's is a degenerative disorder of the central nervous system and is not caused by bacterial infection.

**QUESTION NO: 17**

Add:  $9.43 + 11.3 =$

- A. 21.73
- B. 10.7
- C. 20.73
- D. 25.85

**ANSWER: C****Explanation:**

Vertically align the numbers so that the decimals are on top of each other:

$$\begin{array}{r} 11.30 \\ + 9.43 \\ \hline 20.73 \end{array}$$

**QUESTION NO: 18**

Select the best word for the blank in the following sentence.

The \_\_\_\_\_ late student was reprimanded by the teacher.

- A. habitually
- B. habitually
- C. habituel
- D. habitually

**ANSWER: B**

**QUESTION NO: 19**

How many ounces are there in a gallon?

- A. 32
- B. 64
- C. 128
- D. 1/4

**ANSWER: C**

**Explanation:**

Use dimensional analysis to convert from gallons to ounces.

1 Gallon = 4 Quarts

1 Quart = 2 Pints

1 Pint = 2 Cups

1 Cup = 8 Ounces

$$(1 \text{ gallon}) * \frac{4 \text{ quarts}}{1 \text{ gallon}} * \frac{2 \text{ pints}}{1 \text{ quart}} * \frac{2 \text{ cups}}{1 \text{ pint}} * \frac{8 \text{ ounces}}{1 \text{ cup}} = 128 \text{ ounces.}$$

**QUESTION NO: 20**

Select the best meaning of the underlined word in the sentence.

Peristalsis is a function of the gastrointestinal system that is performed by nerve cells.

- A. of or relating to the cranial nerves
- B. of or relating to the pharynx, oesophagus, stomach, intestines, and anus
- C. of or relating to the autonomic nervous system

D. of or relating to the colon only

**ANSWER: B**