



HESI Admission Assessment Exam (A2)

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# **QUESTION 1**

Which of these sentences is written correctly?

- A. Its been a great day.
- B. It\\'s been a great day.
- C. Its has been a great day.
- D. It\\'s has been a great day.

Correct Answer: B

# **QUESTION 2**

Researchers have developed a recording device that essentially melts into place, snugly fitting to the brain's surface. This new technology allows for closer interaction between machines and living tissue, paving the way for more advanced implantable devices. Currently, the simplest devices for recording from the brain are needle-like electrodes that can penetrate into brain tissue. More state-of-the-art devices, called microelectrode arrays, consist of dozens of semi-flexible wire electrodes. These are usually fixed to rigid silicon grids that don't conform to the brain's shape. An ideal recording device would conform to complex curved surfaces while placing minimal stress on the tissue. The scientists chose silk as their base material because it is flexible and durable enough to withstand manipulation. The team reported that they were able to create ultrathin flexible implants that hug the brain like shrink wrap, collapsing into its grooves and stretching over its rounded surfaces. The silk base dissolves once it makes contact with the brain, allowing the array to end up tightly hugging the brain. They found that the ultrathin arrays they created can record brain activity more faithfully than thicker implants embedded with similar electronics.

Which sentence best summarizes the benefits of the new silk technology?



A. The new technology allows for closer interaction between machines and living tissue, paving the way for more advanced implantable devices.

B. These implants have the potential to maximize the contact between electrodes and brain tissue, while minimizing damage to the brain.

C. They could provide a platform for a range of devices with applications in epilepsy, spinal cord injuries, and other neurological disorders.

D. The arrays could potentially read the complex signals in the brain that direct movement, and then route those signals to healthy muscles or prosthetic devices.

Correct Answer: A

## **QUESTION 3**

Select the meaning of the underlined word in the sentence.

- The patient///s neurovascular system was compromised and he fainted.
- A. relating to the vascular system and blood flow
- B. relating to the nerves and especially their effect on blood flow
- C. relating to the nerves only
- D. relating to an uninhibited section of the body

Correct Answer: B

#### **QUESTION 4**

A car dealer offers many 10 different brands of cars for sale. The average daily sales for the dealer are:

Honda - 2 models, sells 20 of each model per day Toyota - 3 models, sells 15 of each model per day Kia - 1 model, sells 7 each day Ford - 4 models, sells 6 of each model per day

How many total cars are sold per day?

A. 48

- B. 29
- C. 11.6
- D. 116

Correct Answer: D

### **QUESTION 5**



Select the correct word(s) for the blank in the following sentence. I want \_\_\_\_\_ to win the trophy.

A. she

B. her

C. hers

D. herself

Correct Answer: B

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