

Vocab Misc Questions Overview

Vocab Misc Questions have a good weightage in the Banking Exam and the type of question asked in Banking exam is similar to the question mentioned below. It has been solved and explained by Gargi.ai Experts and they have tried to elaborate the concept used in Vocab Misc Questions.

Vocab Misc Questions

Read the given passage carefully and answer the questions that follow. Certain words are printed in bold to help you locate them while answering some of these. Thanks to the pandemic, scientific institutions in India have been able to demonstrate their ability to rise to the occasion and show why the country should increase funding for science research and development. The ICMR's approval, recently, of two indigenously developed tests that are rapid, low-cost and have high sensitivity and specificity provides the much-needed boost to scale up daily testing without diluting accuracy. After carrying out about one million tests each day for the last few weeks, India, for the first time, tested nearly 1.5 million samples on October 21. While most tests done each day were the low sensitivity rapid antigen tests, the ones developed by the Delhi-based Institute of Genomics and Integrative Biology, a CSIR institute, and IIT Kharagpur will now enable the shift to more accurate tests. The low sensitivity of rapid antigen tests has meant that even people with symptoms were being handed out a negative result nearly half the time, leading to undetected cases. With unrestricted movement, businesses opening up, the festival season beginning and winter around the corner, the requirement for a rapid, low-cost test with high accuracy is crucial in checking the virus spread through early detection and repeated testing of even asymptomatic cases. Having locally developed tests with higher accuracy will now help States to offer tests on-demand — as required in a September 4 ICMR advisory — while keeping costs low. While the low sensitivity of rapid antigen tests arises from not isolating the viral RNA from the swab samples and amplification of the DNA before detection, the two indigenously developed tests follow these two vital steps, the reason why the sensitivity and specificity are far superior to that of the rapid antigen tests. But, at the same time, both the tests developed locally do require minimum laboratory infrastructure to isolate the viral RNA from the samples. For that reason, India has to still rely on rapid antigen tests in rural areas that have no laboratory infrastructure. But the tests developed by the Indian institutions, once commercially available, can readily replace the rapid antigen tests in places where such laboratory infrastructure is in place. Rapid antigen tests will become less important even in rural areas once research institutions succeed in developing protocols and tests for using saliva rather than swabs, and do not require isolation of viral RNA from patient samples before amplification and detection. Field testing and validation of such protocols is now pending. (A)_____ on saliva samples would mean non-invasive sample collection, and probably even self-collection. Thus, the reliance on trained personnel would reduce and also minimise the risk of health workers getting infected.

Question

Which statement is incorrect as per the passage?

Difficulty : Moderate

Average Time : 150 Seconds

Options :

1. The reliance on trained personnel would reduce with the testing kits developed by the Delhi-based Institute of Genomics and Integrative Biology.
2. The two tests approved by the ICMR are rapid, low-cost and have high sensitivity.
3. With unrestricted movement, the requirement for a rapid, low-cost test with high accuracy is crucial.
4. The low sensitivity of rapid antigen tests arises from not isolating the viral RNA from the swab samples and amplification of the RNA before detection.
5. All are correct

Solution

The correct answer is option 4 i.e., The low sensitivity of rapid antigen tests arises from not isolating the viral RNA from the swab samples and amplification of the RNA before detection.

- The statement that seems to be incorrect as per the passage is option 4.
- According to the passage, "While the low sensitivity of rapid antigen tests arises from not isolating the viral RNA from the swab samples and amplification of the **DNA** before detection, the two indigenously developed tests follow these two vital steps, the reason why the sensitivity and specificity are far superior to that of the rapid antigen tests."