

Question 1-11 are based on the following passage.

### Chemists for Clean Water

At reservoirs in Bangladesh, chemists are hard at work purifying local water supplies. These experts use filters to remove arsenic from the reservoirs, creating a potable water supply for nearby residents. Many of these experts are affiliated with **1** Chemists Without Borders (CWB). CWB is an organization that provides assistance for crucial human health issues such as clean water. Operating not only in Bangladesh but also in the United States and other nations, CWB relies on the efforts of trained, professional chemists, as well as those of **2** volunteers' interested in entering the field.

**1**

Which choice most effectively combines the sentences at the underlined portion?

- A) Chemists Without Borders (CWB); this is an
- B) Chemists Without Borders (CWB), an
- C) an organization, which is called Chemists Without Borders (CWB) and is an
- D) an

**2**

- A) NO CHANGE
- B) volunteer's
- C) volunteers
- D) volunteers's

Professional chemists at CWB seek out projects that can provide help directly to populations in need. Their work in **3** Bangladesh involves removing toxins, from the drinking water, primarily through water purification. CWB staff members create and give arsenic testing kits to Bangladeshi locals and work with interpreters to **4** dissipate information and instructions. **5** CWB also provides education about medicine, vaccines, and environmental sustainability.

3

- A) NO CHANGE
- B) Bangladesh, involves removing toxins, from the drinking water
- C) Bangladesh, involves removing toxins from the drinking water,
- D) Bangladesh involves removing toxins from the drinking water,

4

- A) NO CHANGE
- B) disseminate
- C) proliferate
- D) propagate

5

At this point, the writer wants to elaborate on the information in the preceding sentence by providing additional, relevant details. Which choice best accomplishes this goal?

- A) These kits include a hand-held device that allows users to identify arsenic concentrations in the water; arsenic is then removed using a filtration system.
- B) Arsenic is a metalloid that is often used for strengthening metal alloys that include copper and lead.
- C) Another important area of education is vaccines; people living in Bangladesh have access to vaccines but often do not receive them.
- D) Some of the CWB representatives are fluent in Bengali, the official language of Bangladesh.

6 CWB also works with volunteers who are rigorously trained chemists. While some volunteers are concerned citizens who want to assist with public education 7 campaigns. Others hold actual chemistry training. The education background for water chemists is varied but includes many disciplines, including microbiology and geology. Students explore these related fields to develop a more comprehensive view of the variables that affect water quality. 8 They might study, for example, the microorganisms living in water, or the effects of particular rocks and soil on water supplies. Volunteers with a rich background in chemistry also help the CWB professionals with water testing and supply kit creation. This practical experience is an excellent opportunity for prospective water chemists to gain insights into what the job entails.

6 Which choice provides the most effective introduction to the main topic of the paragraph?

- A) NO CHANGE
- B) Trained professionals provide invaluable resources to the water chemistry field.
- C) CWB's work depends on the aid of volunteers in a variety of capacities.
- D) Education background for water chemists involves studying sciences outside the chemistry field.

7

- A) NO CHANGE
- B) campaigns, others hold
- C) campaigns; others hold
- D) campaigns, others holding

8

The writer is considering deleting the underlined sentence. Should the writer make this deletion?

- A) Yes, because it blurs the paragraph's focus on the education of water chemists.
- B) Yes, because it is redundant with information provided earlier in the passage.
- C) No, because it provides information that supports a claim made in the introductory paragraph.
- D) No, because it provides examples that elaborate on the previous sentence.

9 A career in water chemistry leading to exciting travel and teaching opportunities, and working to decontaminate water supplies around the world is a rewarding experience for those who undertake it. Also worth noting is the fact that demand for skilled water chemists 10 are on the rise. According to the US Bureau of Labor Statistics, the number of jobs in this field is expected to grow 8 percent by 2022. 11 Looking beyond that, the need for water chemists will likely continue to grow to meet the increasing water demands of our burgeoning global population.

9

- A) NO CHANGE
- B) Careers in water chemistry leading
- C) A career in water chemistry that leads
- D) A career in water chemistry can lead

10

- A) NO CHANGE
- B) is
- C) were
- D) have been

11

Which choice best concludes the passage?

- A) NO CHANGE
- B) While this might look like an insignificant percentage, water chemists have still made great strides.
- C) Volunteers are also crucial contributors to the advances in the water chemistry field.
- D) The need for water chemists will likely continue to grow as individuals take advantage of the travel opportunities that this field provides.