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SECTION III

Time—35 minutes

23 Questions

Directions: Each group of questions in this section is based on a set of conditions. In answering some of the questions, it may be useful to draw a rough diagram. Choose the response that most accurately and completely answers each question and blacken the corresponding space on your answer sheet.

Questions 1–5

Five students—Manolo, Nadia, Owen, Peng, and Rana—are each to deliver exactly one speech. Speeches are on exactly one of two topics—friendship and liberty. Each student has only one major: two major in geology, two in history, and one in journalism. The following conditions must apply:

Exactly two of the students speak on friendship.

A geology major and a history major speak on friendship.

Manolo speaks on friendship.

Rana speaks on liberty.

Neither Peng nor Rana is a geology major.

Nadia is a geology major.

1. Which one of the following could be a list of the majors of Manolo, Nadia, Owen, Peng, and Rana, respectively?

- (A) geology, geology, journalism, journalism, history
- (B) geology, geology, history, history, history
- (C) history, geology, geology, journalism, history
- (D) history, geology, journalism, geology, history
- (E) history, history, geology, journalism, history

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2. If Peng speaks on friendship, then which one of the following could be true?
- (A) Manolo is a history major.
 - (B) Nadia speaks on friendship.
 - (C) Owen speaks on friendship.
 - (D) Owen is a journalism major.
 - (E) Peng is a journalism major.
3. If Owen is a geology major who speaks on friendship, then which one of the following must be true?
- (A) Manolo is a history major.
 - (B) Nadia speaks on friendship.
 - (C) Peng speaks on friendship.
 - (D) Peng is a history major.
 - (E) Rana is a journalism major.



4. If Nadia speaks on friendship, then which one of the following must be false?
- (A) Manolo is a geology major.
 - (B) Manolo is a history major.
 - (C) Owen is a geology major.
 - (D) Peng is a history major.
 - (E) Rana is a history major.
5. Rana must be a journalism major if which one of the following is true?
- (A) Manolo is a geology major and Peng is a history major.
 - (B) Owen is a geology major and Manolo is a history major.
 - (C) Owen is a geology major and Peng is a history major.
 - (D) Both Manolo and Nadia speak on friendship.
 - (E) Both Manolo and Peng speak on friendship.



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