SECTION III

Time—35 minutes

22 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

At each of six consecutive stops—1, 2, 3, 4, 5, and 6—that a traveler must make in that order as part of a trip, she can choose one from among exactly four airlines—L, M, N, and O—on which to continue. Her choices must conform to the following constraints:

Whichever airline she chooses at a stop, she chooses one of the other airlines at the next stop.

She chooses the same airline at stop 1 as she does at stop 6.

She chooses the same airline at stop 2 as she does at stop 4.

Whenever she chooses either L or M at a stop, she does not choose N at the next stop.

At stop 5, she chooses N or O.

1. Which one of the following could be an accurate list of the airlines the traveler chooses at each stop, in order from 1 through 6?

(A) L, M, M, L, O, L
(B) M, L, O, M, O, M
(C) M, N, O, N, O, M
(D) M, O, N, O, N, M
(E) O, M, L, M, O, N

2. If the traveler chooses N at stop 5, which one of the following could be an accurate list of the airlines she chooses at stops 1, 2, and 3, respectively?

(A) L, M, N
(B) L, O, N
(C) M, L, N
(D) M, L, O
(E) N, O, N

3. If the only airlines the traveler chooses for the trip are M, N, and O, and she chooses O at stop 5, then the airlines she chooses at stops 1, 2, and 3, must be, respectively,

(A) M, O, and N
(B) M, N, and O
(C) N, M, and O
(D) N, O, and M
(E) O, M, and N

4. Which one of the following CANNOT be an accurate list of the airlines the traveler chooses at stops 1 and 2, respectively?

(A) L, M
(B) L, O
(C) M, L
(D) M, O
(E) O, N

5. If the traveler chooses O at stop 2, which one of the following could be an accurate list of the airlines she chooses at stops 5 and 6, respectively?

(A) M, N
(B) N, L
(C) N, O
(D) O, L
(E) O, N

GO ON TO THE NEXT PAGE.

Questions 6–11

The members of a five-person committee will be selected from among three parents—F, G, and H—three students—K, L, and M—and four teachers—U, W, X, and Z. The selection of committee members will meet the following conditions:

The committee must include exactly one student.
F and H cannot both be selected.
M and Z cannot both be selected.
U and W cannot both be selected.
F cannot be selected unless Z is also selected.
W cannot be selected unless H is also selected.

6. Which one of the following is an acceptable selection of committee members?

(A) F, G, K, L, Z
(B) F, G, K, U, X
(C) G, K, W, X, Z
(D) H, K, U, W, X
(E) H, L, W, X, Z

7. If W and Z are selected, which one of the following is a pair of people who could also be selected?

(A) U and X
(B) K and L
(C) G and M
(D) G and K
(E) F and G

8. Which one of the following is a pair of people who CANNOT both be selected?

(A) F and G
(B) F and M
(C) G and K
(D) H and L
(E) M and U

9. If W is selected, then any one of the following could also be selected EXCEPT:

(A) F
(B) G
(C) L
(D) M
(E) Z

10. If the committee is to include exactly one parent, which one of the following is a person who must also be selected?

(A) K
(B) L
(C) M
(D) U
(E) X

11. If M is selected, then the committee must also include both

(A) F and G
(B) G and H
(C) H and K
(D) K and U
(E) U and X

GO ON TO THE NEXT PAGE.

Questions 12–17

Within a five-year period from 1991 to 1995, each of three friends—Ramon, Sue, and Taylor—graduated. In that period, each bought his or her first car. The graduations and car purchases must be consistent with the following:

Ramon graduated in some year before the year in which Taylor graduated.
Taylor graduated in some year before the year in which he bought his first car.
Sue bought her first car in some year before the year in which she graduated.
Ramon and Sue graduated in the same year as each other.
At least one of the friends graduated in 1993.

12. Which one of the following could be an accurate matching of each friend and the year in which she or he graduated?

(A) Ramon: 1991; Sue: 1991; Taylor: 1993
(B) Ramon: 1992; Sue: 1992; Taylor: 1993
(C) Ramon: 1992; Sue: 1993; Taylor: 1994
(D) Ramon: 1993; Sue: 1993; Taylor: 1992
(E) Ramon: 1993; Sue: 1993; Taylor: 1995

13. Which one of the following could have taken place in 1995?

(A) Ramon graduated.
(B) Ramon bought his first car.
(C) Sue graduated.
(D) Sue bought her first car.
(E) Taylor graduated.

14. Which one of the following must be false?

(A) Two of the friends each bought his or her first car in 1991.
(B) Two of the friends each bought his or her first car in 1992.
(C) Two of the friends each bought his or her first car in 1993.
(D) Two of the friends each bought his or her first car in 1994.
(E) Two of the friends each bought his or her first car in 1995.

15. Which one of the following must be true?

(A) None of the three friends graduated in 1991.
(B) None of the three friends graduated in 1992.
(C) None of the three friends bought his or her first car in 1993.
(D) None of the three friends graduated in 1994.
(E) None of the three friends bought his or her first car in 1995.

16. If Taylor graduated in the same year that Ramon bought his first car, then each of the following could be true EXCEPT:

(A) Sue bought her first car in 1991.
(B) Ramon graduated in 1992.
(C) Taylor graduated in 1993.
(D) Taylor bought his first car in 1994.
(E) Ramon bought his first car in 1995.

17. If Sue graduated in 1993, then which one of the following must be true?

(A) Sue bought her first car in 1991.
(B) Ramon bought his first car in 1992.
(C) Ramon bought his first car in 1993.
(D) Taylor bought his first car in 1994.
(E) Taylor bought his first car in 1995.

GO ON TO THE NEXT PAGE.

Questions 18–22

A child eating alphabet soup notices that the only letters left in her bowl are one each of these six letters: T, U, W, X, Y, and Z. She plays a game with the remaining letters, eating them in the next three spoonfuls in accord with certain rules. Each of the six letters must be in exactly one of the next three spoonfuls, and each of the spoonfuls must have at least one and at most three of the letters. In addition, she obeys the following restrictions:

The U is in a later spoonful than the T.
The U is not in a later spoonful than the X.
The Y is in a later spoonful than the W.
The U is in the same spoonful as either the Y or the Z, but not both.

18. Which one of the following could be an accurate list of the spoonfuls and the letters in each of them?

(A) first: Y
second: T, W
third: U, X, Z

(B) first: T, W
second: U, X, Y
third: Z

(C) first: T
second: U, Z
third: W, X, Y

(D) first: T, U, Z
second: W
third: X, Y

(E) first: W
second: T, X, Z
third: U, Y

19. If the Y is the only letter in one of the spoonfuls, then which one of the following could be true?

(A) The Y is in the first spoonful.
(B) The Z is in the first spoonful.
(C) The T is in the second spoonful.
(D) The X is in the second spoonful.
(E) The W is in the third spoonful.

20. If the Z is in the first spoonful, then which one of the following must be true?

(A) The T is in the second spoonful.
(B) The U is in the third spoonful.
(C) The W is in the first spoonful.
(D) The W is in the second spoonful.
(E) The X is in the third spoonful.

21. Which one of the following is a complete list of letters, any one of which could be the only letter in the first spoonful?

(A) T
(B) T, W
(C) T, X
(D) T, W, Z
(E) T, X, W, Z

22. If the T is in the second spoonful, then which one of the following could be true?

(A) Exactly two letters are in the first spoonful.
(B) Exactly three letters are in the first spoonful.
(C) Exactly three letters are in the second spoonful.
(D) Exactly one letter is in the third spoonful.
(E) Exactly two letters are in the third spoonful.

S T O P

IF YOU FINISH BEFORE TIME IS CALLED, YOU MAY CHECK YOUR WORK ON THIS SECTION ONLY.
DO NOT WORK ON ANY OTHER SECTION IN THE TEST.