SECTION II

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

A researcher is studying seven manuscripts—F, G, H, L, M, P, and S—to determine their relative ages. It is known that no two manuscripts were written at the same time. The researcher has also determined the following:

H was written earlier than S but later than F.
P was the next manuscript written after G.
At least four of the manuscripts were written earlier than L.
At least four of the manuscripts were written later than M.
H was not written fifth.

1. Which one of the following could be the order in which the manuscripts were written, from first to last?

(A)   F, M, G, H, P, L, S
(B)   G, P, M, F, H, S, L
(C)   H, F, M, G, P, L, S
(D)   L, F, M, G, P, H, S
(E)   M, F, H, S, L, G, P

GO ON TO THE NEXT PAGE.

2. Which one of the following manuscripts CANNOT have been written third?

    (A) S
    (B) P
    (C) M
    (D) H
    (E) G

3. If H was the next manuscript written after M, which one of the following could be true?

    (A) F was written second.
    (B) G was written third.
    (C) H was written fourth.
    (D) P was written third.
    (E) S was written fourth.

4. Which one of the following manuscripts CANNOT have been written fourth?

    (A) F
    (B) G
    (C) H
    (D) P
    (E) S

5. If P was written earlier than H, then any of the following could be true EXCEPT:

    (A) F was written first.
    (B) G was written third.
    (C) H was written sixth.
    (D) L was written seventh.
    (E) M was written second.

GO ON TO THE NEXT PAGE.

Questions 6–11

Exactly six petri dishes—labeled dish 1 through dish 6—are to be stored in an otherwise empty refrigerator. There are three available shelves—the bottom shelf, the middle shelf, and the top shelf. The placement of the dishes must be consistent with the following conditions:

No more than three dishes are stored on any shelf.
Dish 2 is stored at least one shelf above dish 6.
Dish 6 is stored either one shelf above or one shelf below dish 5.
Dish 1 is not stored on the same shelf as dish 4.

6. Which one of the following is an acceptable placement of dishes on the bottom, middle, and top shelves?

(A)   bottom: dish 1
          middle: dish 6
          top: dishes 2, 3, 4, 5
(B)   bottom: dishes 1, 3
          middle: dish 6
          top: dishes 2, 4, 5
(C)   bottom: dish 2
          middle: dishes 4, 6
          top: dishes 1, 3, 5
(D)   bottom: dishes 3, 5
          middle: dish 6
          top: dishes 1, 2, 4
(E)   bottom: dishes 4, 6
          middle: dishes 1, 3
          top: dishes 2, 5

GO ON TO THE NEXT PAGE.

7. If dish 6 is the only dish stored on the bottom shelf, which one of the following could be the list of dishes that are stored together on the middle shelf?

    (A)   dish 1, dish 3
    (B)   dish 2, dish 4
    (C)   dish 2, dish 3
    (D)   dish 3, dish 5
    (E)   dish 4, dish 5

8. If dish 1, dish 2, and dish 3 are stored on the same shelf as each other, which one of the following could be true?

    (A)   Exactly one of the dishes is stored on the top shelf.
    (B)   Exactly two of the dishes are stored on the top shelf.
    (C)   Exactly two of the dishes are stored on the middle shelf.
    (D)   Exactly three of the dishes are stored on the middle shelf.
    (E)   Exactly three of the dishes are stored on the bottom shelf.

9. If exactly one of the shelves has no dish stored on it, which one of the following must be true?

    (A)   Exactly three of the dishes are stored on the bottom shelf.
    (B)   Exactly three of the dishes are stored on the middle shelf.
    (C)   Dish 1 is stored on the same shelf as dish 5.
    (D)   Dish 2 is stored on the same shelf as dish 3.
    (E)   Dish 4 is stored on the same shelf as dish 5.

10. If dish 5 is the only dish stored on the bottom shelf and if exactly two of the dishes are stored on the middle shelf, then which one of the following is a pair of dishes that must be among the dishes stored on the top shelf?

    (A)   dish 1 and dish 2
    (B)   dish 1 and dish 6
    (C)   dish 2 and dish 3
    (D)   dish 2 and dish 4
    (E)   dish 3 and dish 4

11. If exactly one of the dishes is stored on the middle shelf, which one of the following could be the list of dishes stored on the top shelf?

    (A)   dish 1, dish 2
    (B)   dish 1, dish 5
    (C)   dish 2, dish 3
    (D)   dish 3, dish 4
    (E)   dish 3, dish 5

GO ON TO THE NEXT PAGE.

Questions 12–17

A company operates vending machines in four schools: Ferndale, Gladstone, Hafford, and Isley. The company delivers juices in one of its two trucks and snacks in the other truck. Each week, exactly one delivery of juices and exactly one delivery of snacks is made to each school, subject to the following conditions:

Snacks must be delivered to Ferndale at some time before they are delivered to Hafford.

Gladstone cannot be the fourth school to which juices are delivered.

Gladstone must be the third school to which snacks are delivered.

The first school to which juices are delivered must be the fourth one to which snacks are delivered.

12. Which one of the following could be the schedule of deliveries to the schools, from the first to the fourth?

(A)   Juices: Hafford, Ferndale, Gladstone, Isley
       Snacks: Ferndale, Isley, Gladstone, Hafford
(B)   Juices: Hafford, Isley, Ferndale, Gladstone
       Snacks: Isley, Ferndale, Gladstone, Hafford
(C)   Juices: Isley, Ferndale, Gladstone, Hafford
       Snacks: Hafford, Ferndale, Gladstone, Isley
(D)   Juices: Isley, Gladstone, Ferndale, Hafford
       Snacks: Ferndale, Gladstone, Hafford, Isley
(E)   Juices: Isley, Hafford, Gladstone, Ferndale
       Snacks: Ferndale, Isley, Gladstone, Hafford

GO ON TO THE NEXT PAGE.

13. If Hafford is the fourth school to which juices are delivered, which one of the following must be true?

   (A) Ferndale is the second school to which juices are delivered.
   (B) Gladstone is the third school to which juices are delivered.
   (C) Ferndale is the second school to which snacks are delivered.
   (D) Hafford is the second school to which snacks are delivered.
   (E) Isley is the first school to which snacks are delivered.

14. If Isley is the third school to which juices are delivered, which one of the following could be true?

   (A) Juices are delivered to Gladstone at some time before they are delivered to Hafford.
   (B) Juices are delivered to Isley at some time before they are delivered to Hafford.
   (C) Snacks are delivered to Ferndale at some time before they are delivered to Isley.
   (D) Snacks are delivered to Gladstone at some time before they are delivered to Isley.
   (E) Snacks are delivered to Hafford at some time before they are delivered to Gladstone.

15. If Isley is the first school to which snacks are delivered, which one of the following could be true?

   (A) Ferndale is the second school to which juices are delivered.
   (B) Hafford is the second school to which juices are delivered.
   (C) Hafford is the third school to which juices are delivered.
   (D) Isley is the first school to which juices are delivered.
   (E) Hafford is the second school to which snacks are delivered.

16. Which one of the following could be true?

   (A) Both juices and snacks are delivered to Gladstone at some time before they are delivered to Ferndale.
   (B) Both juices and snacks are delivered to Gladstone at some time before they are delivered to Isley.
   (C) Both juices and snacks are delivered to Hafford at some time before they are delivered to Isley.
   (D) Both juices and snacks are delivered to Isley at some time before they are delivered to Ferndale.
   (E) Both juices and snacks are delivered to Isley at some time before they are delivered to Hafford.

17. Which one of the following, if substituted for the condition that Gladstone cannot be the fourth school to which juices are delivered, would have the same effect in determining the delivery schedule?

   (A) Ferndale must be either the second school or the fourth school to which juices are delivered.
   (B) Gladstone must be either the second school or the third school to which juices are delivered.
   (C) Hafford must be either the first school or the fourth school to which juices are delivered.
   (D) The first school to which juices are delivered must be either Ferndale or Isley.
   (E) The fourth school to which juices are delivered must be either Hafford or Isley.

GO ON TO THE NEXT PAGE.

Questions 18–23

Each of five paralegals—Frank, Gina, Hiro, Kevin, and Laurie—is being assigned to exactly one of three cases—the Raimes, Sicoli, or Thompson case. At least one paralegal will be assigned to each case. The following conditions must apply:

Either Frank is assigned to Raimes and Kevin is assigned to Thompson, or Frank is not assigned to Raimes and Kevin is not assigned to Thompson.

Either Frank is the sole paralegal assigned to his case or Gina is the sole paralegal assigned to her case, but not both.

Hiro is assigned to Sicoli.

18. Which one of the following could be the assignment of paralegals to cases?

(A)   Raimes: Frank
Sicoli: Gina, Hiro, Kevin
Thompson: Laurie

(B)   Raimes: Kevin
Sicoli: Gina
Thompson: Frank, Hiro, Laurie

(C)   Raimes: Gina, Kevin
Sicoli: Frank, Hiro
Thompson: Laurie

(D)   Raimes: Kevin, Laurie
Sicoli: Gina, Hiro
Thompson: Frank

(E)   Raimes: Frank, Kevin, Laurie
Sicoli: Hiro
Thompson: Gina

GO ON TO THE NEXT PAGE.

19. Which one of the following CANNOT be the complete assignment of paralegals to the Sicoli case?

    (A)   Frank, Hiro, Kevin
    (B)   Frank, Hiro, Laurie
    (C)   Gina, Hiro, Kevin
    (D)   Gina, Hiro, Laurie
    (E)   Hiro, Kevin, Laurie

20. If exactly two of the paralegals are assigned to the Thompson case, then which one of the following could be the complete assignment of paralegals to the Raimes case?

    (A)   Gina
    (B)   Kevin
    (C)   Laurie
    (D)   Gina, Kevin
    (E)   Kevin, Laurie

21. If one of the cases has Gina and Laurie as the only paralegals assigned to it, then each of the following must be false EXCEPT:

    (A)   Frank is assigned to the Raimes case.
    (B)   Frank is assigned to the Sicoli case.
    (C)   Gina is assigned to the Raimes case.
    (D)   Kevin is assigned to the Raimes case.
    (E)   Laurie is assigned to the Thompson case.

22. Which one of the following CANNOT be the complete assignment of paralegals to the Thompson case?

    (A)   Gina
    (B)   Laurie
    (C)   Gina, Kevin
    (D)   Gina, Laurie
    (E)   Kevin, Laurie

23. If Kevin is the sole paralegal assigned to one of the cases, then which one of the following lists all of the paralegals any one of whom could be assigned to the Raimes case?

    (A)   Frank, Kevin, Laurie
    (B)   Frank, Kevin
    (C)   Frank
    (D)   Gina
    (E)   Kevin

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.