

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 1–6

A detective is trying to determine the order in which a criminal recruited seven accomplices—Peters, Quinn, Rovero, Stanton, Tao, Villas, and White. In addition to discovering that the suspect recruited the accomplices one at a time, the detective has established the following:

Stanton was recruited neither immediately before nor immediately after Tao.

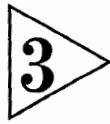
Quinn was recruited earlier than Rovero.

Villas was recruited immediately before White.

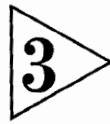
Peters was recruited fourth.

1. Which one of the following could be the order in which the accomplices were recruited, from first to last?
 - (A) Quinn, Tao, Stanton, Peters, Villas, White, Rovero
 - (B) Quinn, White, Rovero, Peters, Stanton, Villas, Tao
 - (C) Villas, White, Quinn, Stanton, Peters, Tao, Rovero
 - (D) Villas, White, Stanton, Peters, Quinn, Tao, Rovero
 - (E) Villas, White, Stanton, Peters, Rovero, Tao, Quinn

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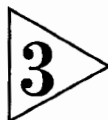
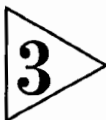


2. Which one of the following could be the list of the middle five accomplices, in the order in which they were recruited, from second to sixth?
- (A) Quinn, Stanton, Peters, Tao, Villas
 - (B) Quinn, Stanton, Peters, Tao, White
 - (C) Villas, White, Peters, Quinn, Stanton
 - (D) Villas, White, Peters, Rovero, Stanton
 - (E) Villas, White, Quinn, Rovero, Stanton
3. If Tao was recruited second, which one of the following could be true?
- (A) Quinn was recruited third.
 - (B) Rovero was recruited fifth.
 - (C) Stanton was recruited sixth.
 - (D) Villas was recruited sixth.
 - (E) White was recruited third.



4. If Quinn was recruited immediately before Rovero, then Stanton CANNOT have been recruited
- (A) first
 - (B) second
 - (C) third
 - (D) fifth
 - (E) seventh
5. If White was recruited earlier than Rovero and if Rovero was recruited earlier than Tao, then which one of the following could be true?
- (A) Quinn was recruited first.
 - (B) Rovero was recruited third.
 - (C) Stanton was recruited second.
 - (D) Tao was recruited sixth.
 - (E) Villas was recruited sixth.
6. If White was recruited immediately before Quinn, which one of the following must have been recruited sixth?
- (A) Quinn
 - (B) Rovero
 - (C) Stanton
 - (D) Villas
 - (E) White

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Questions 7–13

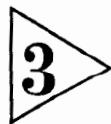
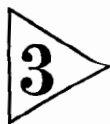
In the Lifestyle, Metro, and Sports sections of tomorrow's newspaper, a total of six different photographs are to appear, exactly two photographs per section. Each of the available photographs was taken by one of three photographers: Fuentes, Gagnon, and Hue. Selection of the photographs is constrained by the following conditions:

- For each photographer, at least one but no more than three of that photographer's photographs must appear.
- At least one photograph in the Lifestyle section must be by a photographer who has at least one photograph in the Metro section.
- The number of Hue's photographs in the Lifestyle section must be the same as the number of Fuentes' photographs in the Sports section.
- None of Gagnon's photographs can be in the Sports section.

7. Which one of the following could be an acceptable selection of the photographs to appear?

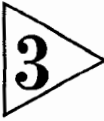
- (A) Lifestyle: both photographs by Fuentes
Metro: one photograph by Fuentes and one by Hue
Sports: one photograph by Gagnon and one by Hue
- (B) Lifestyle: one photograph by Fuentes and one by Gagnon
Metro: one photograph by Fuentes and one by Gagnon
Sports: both photographs by Hue
- (C) Lifestyle: both photographs by Fuentes
Metro: both photographs by Gagnon
Sports: both photographs by Hue
- (D) Lifestyle: both photographs by Gagnon
Metro: one photograph by Fuentes and one by Gagnon
Sports: one photograph by Fuentes and one by Hue
- (E) Lifestyle: one photograph by Gagnon and one by Hue
Metro: both photographs by Hue
Sports: one photograph by Fuentes and one by Hue

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8. If both photographs in the Lifestyle section are by Hue, then which one of the following must be true of the six photographs?
- (A) Exactly one is by Fuentes.
 - (B) Exactly three are by Fuentes.
 - (C) Exactly one is by Gagnon.
 - (D) Exactly two are by Gagnon.
 - (E) Exactly two are by Hue.
9. If one photograph in the Lifestyle section is by Gagnon and one is by Hue, then which one of the following must be true?
- (A) Exactly one photograph in the Metro section is by Fuentes.
 - (B) Exactly one photograph in the Metro section is by Gagnon.
 - (C) Both photographs in the Metro section are by Gagnon.
 - (D) Exactly one photograph in the Sports section is by Hue.
 - (E) Both photographs in the Sports section are by Hue.
10. Which one of the following could be true of the photographs by Fuentes appearing in tomorrow's paper?
- (A) One is in the Lifestyle section, one is in the Metro section, and one is in the Sports section.
 - (B) One is in the Lifestyle section, and two are in the Sports section.
 - (C) Two are in the Lifestyle section, and one is in the Sports section.
 - (D) One is in the Metro section, and two are in the Sports section.
 - (E) Two are in the Metro section, and one is in the Sports section.
11. If one photograph in the Lifestyle section is by Fuentes and one is by Hue, then which one of the following could be true?
- (A) Both photographs in the Metro section are by Fuentes.
 - (B) Both photographs in the Metro section are by Gagnon.
 - (C) Exactly one photograph in the Metro section is by Hue.
 - (D) Both photographs in the Sports section are by Hue.
 - (E) Neither photograph in the Sports section is by Hue.
12. If both photographs in one of the three sections are by Gagnon, then which one of the following could be true?
- (A) Both photographs in the Lifestyle section are by Hue.
 - (B) One photograph in the Lifestyle section is by Fuentes and one is by Hue.
 - (C) Both photographs in the Metro section are by Fuentes.
 - (D) One photograph in the Metro section is by Gagnon and one is by Hue.
 - (E) Both photographs in the Sports section are by Hue.
13. If one photograph in the Metro section is by Fuentes and one is by Hue, then which one of the following could be true?
- (A) Both photographs in the Lifestyle section are by Fuentes.
 - (B) Both photographs in the Lifestyle section are by Gagnon.
 - (C) One photograph in the Lifestyle section is by Gagnon and one is by Hue.
 - (D) Both photographs in the Lifestyle section are by Hue.
 - (E) Both photographs in the Sports section are by Fuentes.

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Questions 14–18

Exactly five students—Grecia, Hakeem, Joe, Katya, and Louise—are to work at a campus art gallery during a special exhibit that runs for exactly five days, Monday through Friday. Each day is divided into two nonoverlapping shifts—first and second—with each student working exactly two shifts. Each shift is worked by exactly one of the students according to the following scheduling restrictions:

No student works both shifts of any day.

On two consecutive days, Louise works the second shift.

On two nonconsecutive days, Grecia works the first shift.

Katya works on Tuesday and Friday.

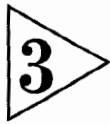
Hakeem and Joe work on the same day as each other at least once.

Grecia and Louise never work on the same day as each other.

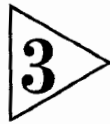
14. Which one of the following could be the list of the students who work the second shifts at the gallery, in order from Monday through Friday?

- (A) Hakeem, Louise, Louise, Hakeem, Katya
- (B) Joe, Hakeem, Grecia, Louise, Louise
- (C) Joe, Katya, Hakeem, Louise, Katya
- (D) Louise, Katya, Joe, Louise, Katya
- (E) Louise, Louise, Hakeem, Joe, Joe

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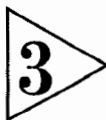
15. Which one of the following must be true?
- (A) Grecia does not work at the gallery on Tuesday.
 - (B) Hakeem does not work at the gallery on Wednesday.
 - (C) Joe does not work at the gallery on Tuesday.
 - (D) Joe does not work at the gallery on Thursday.
 - (E) Louise does not work at the gallery on Tuesday.
16. If Hakeem works at the gallery on Wednesday, then Joe must work at the gallery on which one of the following pairs of days?
- (A) Monday and Wednesday
 - (B) Monday and Thursday
 - (C) Tuesday and Wednesday
 - (D) Tuesday and Thursday
 - (E) Wednesday and Thursday



17. If there is at least one day on which Grecia and Joe both work at the gallery, then which one of the following could be true?
- (A) Grecia works the first shift on Tuesday.
 - (B) Hakeem works the second shift on Monday.
 - (C) Hakeem works the second shift on Wednesday.
 - (D) Joe works the first shift on Wednesday.
 - (E) Joe works the first shift on Thursday.
18. If Katya works the second shift on Tuesday at the gallery, then which one of the following could be true?
- (A) Grecia works the first shift on Monday.
 - (B) Hakeem works the first shift on Monday.
 - (C) Hakeem works the second shift on Wednesday.
 - (D) Joe works the second shift on Thursday.
 - (E) Louise works the second shift on Monday.



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Questions 19–23

A publisher is planning to publish six cookbooks—K, L, M, N, O, and P—over the course of the next year. Each cookbook will be published in one of two seasons—fall or spring—subject to the following conditions:

M and P cannot be published in the same season as each other.

K and N must be published in the same season as each other.

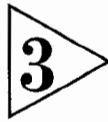
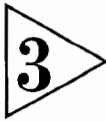
If K is published in the fall, O must also be published in the fall.

If M is published in the fall, N must be published in the spring.

19. Which one of the following is an acceptable schedule for the publication of the cookbooks?

- (A) fall: K, L, M, and O
spring: N and P
- (B) fall: K, L, N, and O
spring: M and P
- (C) fall: K, L, N, and P
spring: M and O
- (D) fall: K, M, N, and O
spring: L and P
- (E) fall: M and O
spring: K, L, N, and P

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20. If M is published in the fall, which one of the following is a pair of cookbooks that could both be published in the fall along with M?
- (A) K and O
(B) L and N
(C) L and O
(D) N and P
(E) O and P
21. If N is published in the fall, which one of the following could be true?
- (A) K is published in the spring.
(B) L is published in the fall.
(C) M is published in the fall.
(D) O is published in the spring.
(E) P is published in the spring.
22. The schedule for the publication of the cookbooks is fully determined if which one of the following is true?
- (A) K is published in the fall and L is published in the spring.
(B) O is published in the fall and P is published in the spring.
(C) P is published in the fall and L is published in the spring.
(D) Both K and L are published in the spring.
(E) Both M and L are published in the fall.
23. Which one of the following, if substituted for the condition that if M is published in the fall, N must be published in the spring, would have the same effect in determining the schedule for the publication of the cookbooks?
- (A) If L is published in the fall, M must be published in the spring.
(B) If N is published in the fall, P must also be published in the fall.
(C) If M is published in the spring, P must be published in the fall.
(D) If N is published in the spring, M must also be published in the spring.
(E) If O is published in the spring, N must also be published in the spring.

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.