SECTION II

Time—35 minutes

23 Questions

<u>Directions:</u> 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.

<u>Questions 1–5</u>

A movie studio is scheduling the release of six films—*Fiesta*, *Glaciers*, *Hurricanes*, *Jets*, *Kangaroos*, and *Lovebird*. No two of these films can be released on the same date. The release schedule is governed by the following conditions:

    *Fiesta* must be released earlier than both *Jets* and *Lovebird*.
    *Kangaroos* must be released earlier than *Jets*, and *Jets* must
     be released earlier than *Hurricanes*.
    *Lovebird* must be released earlier than *Glaciers*.

1. Which one of the following CANNOT be true?

    (A)    *Fiesta* is released second.
    (B)    *Glaciers* is released third.
    (C)    *Hurricanes* is released fourth.
    (D)    *Kangaroos* is released fourth.
    (E)    *Kangaroos* is released fifth.

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2.  Which one of the following must be true?

    (A)   *Fiesta* is released earlier than *Hurricanes*.
    (B)   *Jets* is released earlier than *Glaciers*.
    (C)   *Kangaroos* is released earlier than *Glaciers*.
    (D)   *Lovebird* is released earlier than *Hurricanes*.
    (E)   *Lovebird* is released earlier than *Jets*.

3.  If *Glaciers* is released earlier than *Hurricanes*, then each of the following could be true EXCEPT:

    (A)   *Glaciers* is released fourth.
    (B)   *Jets* is released third.
    (C)   *Kangaroos* is released second.
    (D)   *Lovebird* is released third.
    (E)   *Lovebird* is released fifth.

4.  If *Lovebird* is released earlier than *Kangaroos*, which one of the following could be true?

    (A)   *Lovebird* is released third.
    (B)   *Lovebird* is released fourth.
    (C)   *Hurricanes* is released earlier than *Lovebird*.
    (D)   *Jets* is released earlier than *Glaciers*.
    (E)   *Jets* is released earlier than *Lovebird*.

5.  Which one of the following, if substituted for the condition that *Fiesta* must be released earlier than both *Jets* and *Lovebird*, would have the same effect on the order in which the films are released?

    (A)   Only *Kangaroos* can be released earlier than *Fiesta*.
    (B)   *Kangaroos* must be released earlier than *Lovebird*.
    (C)   *Fiesta* must be released either first or second.
    (D)   *Fiesta* must be released earlier than both *Kangaroos* and *Lovebird*.
    (E)   Either *Fiesta* or *Kangaroos* must be released first.

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Questions 6–11

The applications of seven job candidates—Farrell, Grant, Hong, Inman, Kent, Lopez, and Madsen—will be evaluated by four human resource officers—Rao, Smith, Tipton, and Ullman. Each application will be evaluated by exactly one officer, and each officer will evaluate at least one application, subject to the following constraints:

Grant's application must be evaluated by Ullman.
Farrell's application must be evaluated by the same officer who evaluates Lopez's application.
Neither Hong's application nor Madsen's application can be evaluated by the same officer who evaluates Inman's application.
The officer who evaluates Kent's application cannot evaluate any other applications.
Smith must evaluate more of the applications than Tipton does.

6. Which one of the following could be the assignment of applications to officers?

(A)   Rao: Hong
       Smith: Farrell, Lopez, Madsen
       Tipton: Kent
       Ullman: Grant, Inman
(B)   Rao: Inman
       Smith: Hong, Lopez, Madsen
       Tipton: Kent
       Ullman: Farrell, Grant
(C)   Rao: Madsen
       Smith: Farrell, Lopez
       Tipton: Kent
       Ullman: Grant, Hong, Inman
(D)   Rao: Farrell, Lopez
       Smith: Hong, Kent, Madsen
       Tipton: Inman
       Ullman: Grant
(E)   Rao: Farrell, Grant, Lopez
       Smith: Hong, Madsen
       Tipton: Kent
       Ullman: Inman

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7. If Hong's application is evaluated by Rao, which one of the following could be true?

   (A)   Farrell's application is evaluated by Rao.
   (B)   Inman's application is evaluated by Smith.
   (C)   Kent's application is evaluated by Rao.
   (D)   Lopez's application is evaluated by Ullman.
   (E)   Madsen's application is evaluated by Tipton.

8. If exactly two of the applications are evaluated by Tipton, then each of the following must be true EXCEPT:

   (A)   Exactly one of the applications is evaluated by Rao.
   (B)   Exactly one of the applications is evaluated by Ullman.
   (C)   Farrell's application is evaluated by Tipton.
   (D)   Inman's application is evaluated by Smith.
   (E)   Lopez's application is evaluated by Smith.

9. If the officer who evaluates Madsen's application does not evaluate any other application, which one of the following must be true?

   (A)   Madsen's application is evaluated by Tipton.
   (B)   Lopez's application is evaluated by Smith.
   (C)   Kent's application is evaluated by Tipton.
   (D)   Inman's application is evaluated by Smith.
   (E)   Hong's application is evaluated by Smith.

10. If Farrell's application is evaluated by the same officer who evaluates Inman's application, then any of the following could be true EXCEPT:

   (A)   Hong's application is evaluated by Ullman.
   (B)   Kent's application is evaluated by Tipton.
   (C)   Lopez's application is evaluated by Ullman.
   (D)   Madsen's application is evaluated by Smith.
   (E)   Madsen's application is evaluated by Ullman.

11. If Farrell's application is evaluated by Rao, then for how many of the other applications is the identity of the officer who evaluates it fully determined?

   (A)   one
   (B)   two
   (C)   three
   (D)   four
   (E)   five

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Questions 12–16

A six-week literature course is being planned in which six books—F, K, N, O, R, and T—will be discussed. The books will be discussed one at a time, one book per week. In addition, written summaries will be required for one or more of the books. The order in which the books are discussed and the selection of books to be summarized is subject to the following conditions:

No two books that are summarized are discussed in consecutive weeks.

If N is not summarized, then both R and T are summarized.

N is discussed earlier than T, and T is discussed earlier than O.

F is discussed earlier than O, and O is discussed earlier than both K and R.

12. Which one of the following could be the plan for the course, showing the order, from first to last, in which the books are discussed and the choice of books to be summarized?

(A)    F, N, T, O, R, K; with only T and R summarized
(B)    F, T, N, O, K, R; with only N and K summarized
(C)    N, F, T, O, K, R; with only T, O, and R summarized
(D)    N, T, F, O, K, R; with only T and O summarized
(E)    N, T, O, F, K, R; with only T and R summarized

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13. If N is the second book discussed and it is not summarized, which one of the following could be true?

    (A) F is summarized.
    (B) K is summarized.
    (C) O is summarized.
    (D) T is discussed earlier than F.
    (E) The third book discussed is not summarized.

14. If O is summarized, which one of the following CANNOT be true?

    (A) F is the first book discussed.
    (B) K is the sixth book discussed.
    (C) F is summarized.
    (D) K is not summarized.
    (E) N is not summarized.

15. If neither of the last two books discussed is summarized, which one of the following could be true?

    (A) K is summarized.
    (B) O is summarized.
    (C) R is summarized.
    (D) F and T are summarized.
    (E) N is not summarized.

16. Which one of the following, if substituted for the condition that F is discussed earlier than O, and O is discussed earlier than both K and R, would have the same effect in determining the plan for the literature course?

    (A) T is discussed third, and the last two books discussed are K and R, not necessarily in that order.
    (B) T is discussed earlier than F, and the last two books discussed are K and R, not necessarily in that order.
    (C) K and R are among the last three books discussed, and F is among the first three books discussed.
    (D) K and R are discussed in consecutive weeks, not necessarily in that order, and O is discussed fourth.
    (E) K and R are discussed in consecutive weeks, not necessarily in that order, and F is discussed third.

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Questions 17–23

A museum curator is arranging seven paintings—a Morisot, a Pissarro, a Renoir, a Sisley, a Turner, a Vuillard, and a Whistler. The paintings will be arranged in a horizontal row of seven positions, with the first position being closest to the entrance and the seventh being furthest from the entrance. The arrangement is subject to the following constraints:

    The Turner must be closer to the entrance than the Whistler is.

    The Renoir must be closer to the entrance than the Morisot is, with exactly one other painting between them.

    The Pissarro and the Sisley must be next to each other.

    If the Vuillard is not in the third position, it must be in the fourth position.

17.   Which one of the following could be the arrangement of the paintings, listed in order from the first position to the seventh?

(A)    Morisot, Turner, Renoir, Vuillard, Whistler, Sisley, Pissarro

(B)    Pissarro, Sisley, Renoir, Vuillard, Morisot, Whistler, Turner

(C)    Renoir, Turner, Morisot, Vuillard, Whistler, Sisley, Pissarro

(D)    Sisley, Turner, Pissarro, Vuillard, Renoir, Whistler, Morisot

(E)    Turner, Vuillard, Pissarro, Sisley, Renoir, Whistler, Morisot

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18. If the Sisley is in the seventh position, which one of the following could be the position that the Turner is in?

    (A) second
    (B) third
    (C) fourth
    (D) fifth
    (E) sixth

19. If the Pissarro is in the fifth position, which one of the following must be true?

    (A) The Morisot is in the fourth position.
    (B) The Renoir is in the second position.
    (C) The Sisley is in the sixth position.
    (D) The Turner is in the first position.
    (E) The Vuillard is in the third position.

20. Any one of the following could be in the third position EXCEPT:

    (A) the Morisot
    (B) the Renoir
    (C) the Sisley
    (D) the Turner
    (E) the Whistler

21. If the Renoir and the Morisot are both between the Turner and the Whistler, which one of the following could be true?

    (A) The Pissarro is in the fifth position.
    (B) The Sisley is in the second position.
    (C) The Turner is in the third position.
    (D) The Vuillard is in the fourth position.
    (E) The Whistler is in the sixth position.

22. If there is exactly one painting between the Turner and the Whistler, which one of the following must be true?

    (A) The Morisot is in the seventh position.
    (B) The Pissarro is in the first position.
    (C) The Renoir is in the fourth position.
    (D) The Turner is in the second position.
    (E) The Vuillard is in the third position.

23. If the Turner is next to the Vuillard, which one of the following is a pair of paintings in which the one mentioned first must be closer to the entrance than the one mentioned second?

    (A) the Pissarro and the Sisley
    (B) the Renoir and the Whistler
    (C) the Turner and the Vuillard
    (D) the Vuillard and the Turner
    (E) the Whistler and the Renoir

# 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.