Section III

Time—35 minutes

24 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 1–6</u>

Of the eight students—George, Helen, Irving, Kyle, Lenore, Nina, Olivia, and Robert—in a seminar, exactly six will give individual oral reports during three consecutive days—Monday, Tuesday, and Wednesday. Exactly two reports will be given each day—one in the morning and one in the afternoon—according to the following conditions:

Tuesday is the only day on which George can give a report.

Neither Olivia nor Robert can give an afternoon report.

If Nina gives a report, then on the next day Helen and Irving must both give reports, unless Nina's report is given on Wednesday.

1. Which one of the following could be the schedule of the students' reports?

(A) Mon. morning: Helen; Mon. afternoon: Robert
Tues. morning: Olivia; Tues. afternoon: Irving
Wed. morning: Lenore; Wed. afternoon: Kyle
(B) Mon. morning: Irving; Mon. afternoon: Olivia
Tues. morning: Helen; Tues. afternoon: Kyle
Wed. morning: Nina; Wed. afternoon: Lenore
(C) Mon. morning: Lenore; Mon. afternoon: Helen
Tues. morning: George; Tues. afternoon: Kyle
Wed. morning: Robert; Wed. afternoon: Irving
(D) Mon. morning: Nina; Mon. afternoon: Helen
Tues. morning: Robert; Tues. afternoon: Irving
Wed. morning: Olivia; Wed. afternoon: Lenore
(E) Mon. morning: Olivia; Mon. afternoon: Nina
Tues. morning: Irving; Tues. afternoon: Helen
Wed. morning: Kyle; Wed. afternoon: George

2. If Kyle and Lenore do not give reports, then the morning reports on Monday, Tuesday, and Wednesday, respectively, could be given by

(A) Helen, George, and Nina
(B) Irving, Robert, and Helen
(C) Nina, Helen, and Olivia
(D) Olivia, Robert, and Irving
(E) Robert, George, and Helen

3. Which one of the following is a pair of students who, if they give reports on the same day as each other, must give reports on Wednesday?

(A) George and Lenore
(B) Helen and Nina
(C) Irving and Robert
(D) Kyle and Nina
(E) Olivia and Kyle

4. If George, Nina, and Robert give reports and they do so on different days from one another, which one of the following could be true?

(A) Helen gives a report on Wednesday.
(B) Nina gives a report on Monday.
(C) Nina gives a report on Tuesday.
(D) Olivia gives a report on Monday.
(E) Robert gives a report on Wednesday.

5. If Kyle gives the afternoon report on Tuesday, and Helen gives the afternoon report on Wednesday, which one of the following could be the list of the students who give the morning reports on Monday, Tuesday, and Wednesday, respectively?

(A) Irving, Lenore, and Nina
(B) Lenore, George, and Irving
(C) Nina, Irving, and Lenore
(D) Robert, George, and Irving
(E) Robert, Irving, and Lenore

6. If Helen, Kyle, and Lenore, not necessarily in that order, give the three morning reports, which one of the following must be true?

(A) Helen gives a report on Monday.
(B) Irving gives a report on Monday.
(C) Irving gives a report on Wednesday.
(D) Kyle gives a report on Tuesday.
(E) Kyle gives a report on Wednesday.

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Questions 7–11

The organizer of a reading club will select at least five and at most six works from a group of nine works. The group consists of three French novels, three Russian novels, two French plays, and one Russian play. The organizer's selection of works must conform to the following requirements:

No more than four French works are selected.
At least three but no more than four novels are selected.
At least as many French novels as Russian novels are selected.
If both French plays are selected, then the Russian play is not selected.

7. Which one of the following could be the organizer's selection of works?

(A) one French novel, two Russian novels, one French play, one Russian play
(B) two French novels, one Russian novel, two French plays, one Russian play
(C) two French novels, two Russian novels, two French plays
(D) three French novels, one Russian novel, two French plays
(E) three French novels, two Russian novels, one Russian play

8. Which one of the following could be true about the organizer's selection of works?

(A) No Russian novels are selected.
(B) Exactly one French novel is selected.
(C) All three plays are selected.
(D) All three Russian novels are selected.
(E) All five French works are selected.

9. If the works selected include three French novels, which one of the following could be a complete and accurate list of the remaining works selected?

(A) one Russian novel
(B) two French plays
(C) one Russian novel, one Russian play
(D) one Russian novel, two French plays
(E) two Russian novels, one French play

10. The organizer must at least select

(A) one French novel and one French play
(B) one French novel and one Russian play
(C) one Russian novel and one French play
(D) two French novels
(E) two Russian novels

11. Any one of the following could be true about the organizer's selections of works EXCEPT:

(A) No Russian novels and exactly one play are selected.
(B) Exactly one Russian novel and both French plays are selected.
(C) Exactly two French novels and the Russian play are selected.
(D) Exactly two French novels and exactly two plays are selected.
(E) Exactly two Russian novels and exactly one play are selected.

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Questions 12–18

At a concert, exactly eight compositions—F, H, L, O, P, R, S, and T—are to be performed exactly once each, consecutively and one composition at a time. The order of their performance must satisfy the following conditions:

T is performed either immediately before F or immediately after R.

At least two compositions are performed either after F and before R, or after R and before F.

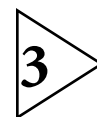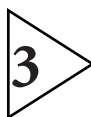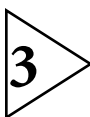O is performed either first or fifth.

The eighth composition performed is either L or H.

P is performed at some time before S.

At least one composition is performed either after O and before S, or after S and before O.

12. Which one of the following lists the compositions in an order in which they could be performed during the concert, from first through eighth?

   (A)   L, P, S, R, O, T, F, H
   (B)   O, T, P, F, S, H, R, L
   (C)   P, T, F, S, L, R, O, H
   (D)   P, T, F, S, O, R, L, H
   (E)   T, F, P, R, O, L, S, H

13. P CANNOT be performed

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

14. If T is performed fifth and F is performed sixth, then S must be performed either

   (A)   fourth or seventh
   (B)   third or sixth
   (C)   third or fourth
   (D)   second or seventh
   (E)   first or fourth

15. If O is performed immediately after T, then F must be performed either

   (A)   first or second
   (B)   second or third
   (C)   fourth or sixth
   (D)   fourth or seventh
   (E)   sixth or seventh

16. If S is performed fourth, which one of the following could be an accurate list of the compositions performed first, second, and third, respectively?

   (A)   F, H, P
   (B)   H, P. L
   (C)   O, P, R
   (D)   O, P, T
   (E)   P, R, T

17. If P is performed third and S is performed sixth, the composition performed fifth must be either

   (A)   F or H
   (B)   F or O
   (C)   F or T
   (D)   H or L
   (E)   O or R

18. If exactly two compositions are performed after F but before O, then R must be performed

   (A)   first
   (B)   third
   (C)   fourth
   (D)   sixth
   (E)   seventh

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Questions 19–24

On each of exactly seven consecutive days (day 1 though day 7), a pet shop features exactly one of three breeds of kitten—Himalayan, Manx, Siamese—and exactly one of three breeds of puppy—Greyhound, Newfoundland, Rottweiler. The following conditions must apply:

Greyhounds are featured on day 1.
No breed is featured on any two consecutive days.
Any breed featured on day 1 is not featured on day 7.
Himalayans are featured on exactly three days, but not on day 1.
Rottweilers are not featured on day 7, nor on any day that features Himalayans.

19. Which one of the following could be the order in which the breeds of kitten are featured in the pet shop, from day 1 though day 7?

(A)   Himalayan, Manx, Siamese, Himalayan, Manx, Himalayan, Siamese
(B)   Manx, Himalayan, Siamese, Himalayan, Manx Himalayan, Manx
(C)   Manx, Himalayan, Manx, Himalayan, Siamese, Manx, Siamese
(D)   Siamese, Himalayan, Manx, Himalayan, Siamese, Siamese, Himalayan
(E)   Siamese, Himalayan, Siamese, Himalayan, Manx, Siamese, Himalayan

20. If Himalayans are not featured on day 2, which one of the following could be true?

(A)   Manx are featured on day 3.
(B)   Siamese are featured on day 4.
(C)   Rottweilers are featured on day 5.
(D)   Himalayans are featured on day 6.
(E)   Greyhounds are featured on day 7.

21. Which one of the following could be true?

(A)   Greyhounds and Siamese are both featured on day 2.
(B)   Greyhounds and Himalayans are both featured on day 7.
(C)   Rottweilers and Himalayans are both featured on day 4.
(D)   Rottweilers and Manx are both featured on day 5.
(E)   Newfoundlands and Manx are both featured on day 6.

22. If Himalayans are not featured on day 7, then which one of the following pairs of days CANNOT feature both the same breed of kitten and the same breed of puppy?

(A)   day 1 and day 3
(B)   day 2 and day 6
(C)   day 3 and day 5
(D)   day 4 and day 6
(E)   day 5 and day 7

23. Which one of the following could be true?

(A)   There are exactly four breeds that are each featured on three days.
(B)   Greyhounds are featured on every day that Himalayans are.
(C)   Himalayans are featured on every day that Greyhounds are.
(D)   Himalayans are featured on every day that Rottweilers are not.
(E)   Rottweilers are featured on every day that Himalayans are not.

24. If Himalayans are not featured on day 7, which one of the following could be true?

(A)   Greyhounds are featured on days 3 and 5.
(B)   Newfoundlands are featured on day 3.
(C)   Rottweilers are featured on day 6.
(D)   Rottweilers are featured only on day 3.
(E)   Rottweilers are featured on exactly three days.

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.