

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 motel operator is scheduling appointments to start up services at a new motel. Appointments for six services—gas, landscaping, power, satellite, telephone, and water—will be scheduled, one appointment per day for the next six days. The schedule for the appointments is subject to the following conditions:

The water appointment must be scheduled for an earlier day than the landscaping appointment.

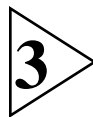
The power appointment must be scheduled for an earlier day than both the gas and satellite appointments.

The appointments scheduled for the second and third days cannot be for either gas, satellite, or telephone.

The telephone appointment cannot be scheduled for the sixth day.

1. Which one of the following is an acceptable schedule of appointments, listed in order from earliest to latest?
 - (A) gas, water, power, telephone, landscaping, satellite
 - (B) power, water, landscaping, gas, satellite, telephone
 - (C) telephone, power, landscaping, gas, water, satellite
 - (D) telephone, water, power, landscaping, gas, satellite
 - (E) water, telephone, power, gas, satellite, landscaping
2. If neither the gas nor the satellite nor the telephone appointment is scheduled for the fourth day, which one of the following must be true?
 - (A) The gas appointment is scheduled for the fifth day.
 - (B) The power appointment is scheduled for the third day.
 - (C) The satellite appointment is scheduled for the sixth day.
 - (D) The telephone appointment is scheduled for the first day.
 - (E) The water appointment is scheduled for the second day.
3. Which one of the following must be true?
 - (A) The landscaping appointment is scheduled for an earlier day than the telephone appointment.
 - (B) The power appointment is scheduled for an earlier day than the landscaping appointment.
 - (C) The telephone appointment is scheduled for an earlier day than the gas appointment.
 - (D) The telephone appointment is scheduled for an earlier day than the water appointment.
 - (E) The water appointment is scheduled for an earlier day than the gas appointment.
4. Which one of the following CANNOT be the appointments scheduled for the fourth, fifth, and sixth days, listed in that order?
 - (A) gas, satellite, landscaping
 - (B) landscaping, satellite, gas
 - (C) power, satellite, gas
 - (D) telephone, satellite, gas
 - (E) water, gas, landscaping
5. If neither the gas appointment nor the satellite appointment is scheduled for the sixth day, which one of the following must be true?
 - (A) The gas appointment is scheduled for the fifth day.
 - (B) The landscaping appointment is scheduled for the sixth day.
 - (C) The power appointment is scheduled for the third day.
 - (D) The telephone appointment is scheduled for the fourth day.
 - (E) The water appointment is scheduled for the second day.
6. Which one of the following, if substituted for the condition that the telephone appointment cannot be scheduled for the sixth day, would have the same effect in determining the order of the appointments?
 - (A) The telephone appointment must be scheduled for an earlier day than the gas appointment or the satellite appointment, or both.
 - (B) The telephone appointment must be scheduled for the day immediately before either the gas appointment or the satellite appointment.
 - (C) The telephone appointment must be scheduled for an earlier day than the landscaping appointment.
 - (D) If the telephone appointment is not scheduled for the first day, it must be scheduled for the day immediately before the gas appointment.
 - (E) Either the gas appointment or the satellite appointment must be scheduled for the sixth day.

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Questions 7–13

An artisan has been hired to create three stained glass windows. The artisan will use exactly five colors of glass: green, orange, purple, rose, and yellow. Each color of glass will be used at least once, and each window will contain at least two different colors of glass. The windows must also conform to the following conditions:

Exactly one of the windows contains both green glass and purple glass.

Exactly two of the windows contain rose glass.

If a window contains yellow glass, then that window contains neither green glass nor orange glass.

If a window does not contain purple glass, then that window contains orange glass.

7. Which one of the following could be the color combinations of the glass in the three windows?
 - (A) window 1: green, purple, rose, and orange
window 2: rose and yellow
window 3: green and orange
 - (B) window 1: green, purple, and rose
window 2: green, rose, and orange
window 3: purple and yellow
 - (C) window 1: green, purple, and rose
window 2: green, purple, and orange
window 3: purple, rose, and yellow
 - (D) window 1: green, purple, and orange
window 2: rose, orange, and yellow
window 3: purple and rose
 - (E) window 1: green, purple, and orange
window 2: purple, rose, and yellow
window 3: purple and orange
8. Which one of the following CANNOT be the complete color combination of the glass in one of the windows?
 - (A) green and orange
 - (B) green and purple
 - (C) green and rose
 - (D) purple and orange
 - (E) rose and orange
9. If two of the windows are made with exactly two colors of glass each, then the complete color combination of the glass in one of those windows could be
 - (A) rose and yellow
 - (B) orange and rose
 - (C) orange and purple
 - (D) green and rose
 - (E) green and orange
10. If the complete color combination of the glass in one of the windows is purple, rose, and orange, then the complete color combination of the glass in one of the other windows could be
 - (A) green, orange, and rose
 - (B) green, orange, and purple
 - (C) orange and rose
 - (D) orange and purple
 - (E) green and orange
11. If orange glass is used in more of the windows than green glass, then the complete color combination of the glass in one of the windows could be
 - (A) orange and purple
 - (B) green, purple, and rose
 - (C) green and purple
 - (D) green and orange
 - (E) green, orange, and rose
12. Which one of the following could be used in all three windows?
 - (A) green glass
 - (B) orange glass
 - (C) purple glass
 - (D) rose glass
 - (E) yellow glass
13. If none of the windows contains both rose glass and orange glass, then the complete color combination of the glass in one of the windows must be
 - (A) green and purple
 - (B) green, purple, and orange
 - (C) green and orange
 - (D) purple and orange
 - (E) purple, rose, and yellow

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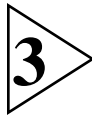
Questions 14–18

A conference on management skills consists of exactly five talks, which are held successively in the following order: Feedback, Goal Sharing, Handling People, Information Overload, and Leadership. Exactly four employees of SoftCorp—Quigley, Rivera, Spivey, and Tran—each attend exactly two of the talks. No talk is attended by more than two of the employees, who attend the talks in accordance with the following conditions:

Quigley attends neither Feedback nor Handling People.
 Rivera attends neither Goal Sharing nor Handling People.
 Spivey does not attend either of the talks that Tran attends.
 Quigley attends the first talk Tran attends.
 Spivey attends the first talk Rivera attends.

14. Which one of the following could be a complete and accurate matching of the talks to the SoftCorp employees who attend them?
- (A) Feedback: Rivera, Spivey
 Goal Sharing: Quigley, Tran
 Handling People: None
 Information Overload: Quigley, Rivera
 Leadership: Spivey, Tran
 - (B) Feedback: Rivera, Spivey
 Goal Sharing: Quigley, Tran
 Handling People: Rivera, Tran
 Information Overload: Quigley
 Leadership: Spivey
 - (C) Feedback: Rivera, Spivey
 Goal Sharing: Quigley, Tran
 Handling People: Tran
 Information Overload: Quigley, Rivera
 Leadership: Spivey
 - (D) Feedback: Rivera, Spivey
 Goal Sharing: Tran
 Handling People: Tran
 Information Overload: Quigley, Rivera
 Leadership: Quigley, Spivey
 - (E) Feedback: Spivey
 Goal Sharing: Quigley, Tran
 Handling People: Spivey
 Information Overload: Quigley, Rivera
 Leadership: Rivera, Tran
15. If none of the SoftCorp employees attends Handling People, then which one of the following must be true?
- (A) Rivera attends Feedback.
 - (B) Rivera attends Leadership.
 - (C) Spivey attends Information Overload.
 - (D) Tran attends Goal Sharing.
 - (E) Tran attends Information Overload.
16. Which one of the following is a complete and accurate list of the talks any one of which Rivera and Spivey could attend together?
- (A) Feedback, Information Overload, Leadership
 - (B) Feedback, Goal Sharing, Information Overload
 - (C) Information Overload, Leadership
 - (D) Feedback, Leadership
 - (E) Feedback, Information Overload
17. If Quigley is the only SoftCorp employee to attend Leadership, then which one of the following could be false?
- (A) Rivera attends Feedback.
 - (B) Rivera attends Information Overload.
 - (C) Spivey attends Feedback.
 - (D) Spivey attends Handling People.
 - (E) Tran attends Goal Sharing.
18. If Rivera is the only SoftCorp employee to attend Information Overload, then which one of the following could be false?
- (A) Quigley attends Leadership.
 - (B) Rivera attends Feedback.
 - (C) Spivey attends Feedback.
 - (D) Tran attends Goal Sharing.
 - (E) Tran attends Handling People.

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Questions 19–23

Exactly six witnesses will testify in a trial: Mangione, Ramirez, Sanderson, Tannenbaum, Ujemori, and Wong. The witnesses will testify one by one, and each only once. The order in which the witnesses testify is subject to the following constraints:

Sanderson must testify immediately before either Tannenbaum or Ujemori.

Ujemori must testify earlier than both Ramirez and Wong.

Either Tannenbaum or Wong must testify immediately before Mangione.

19. Which one of the following lists the witnesses in an order in which they could testify?
 - (A) Ramirez, Sanderson, Tannenbaum, Mangione, Ujemori, Wong
 - (B) Sanderson, Tannenbaum, Ujemori, Ramirez, Wong, Mangione
 - (C) Sanderson, Ujemori, Tannenbaum, Wong, Ramirez, Mangione
 - (D) Tannenbaum, Mangione, Ujemori, Sanderson, Ramirez, Wong
 - (E) Wong, Ramirez, Sanderson, Tannenbaum, Mangione, Ujemori
20. If Tannenbaum testifies first, then which one of the following could be true?
 - (A) Ramirez testifies second.
 - (B) Wong testifies third.
 - (C) Sanderson testifies fourth.
 - (D) Ujemori testifies fifth.
 - (E) Mangione testifies sixth.
21. If Sanderson testifies fifth, then Ujemori must testify
 - (A) first
 - (B) second
 - (C) third
 - (D) fourth
 - (E) sixth
22. Which one of the following pairs of witnesses CANNOT testify third and fourth, respectively?
 - (A) Mangione, Tannenbaum
 - (B) Ramirez, Sanderson
 - (C) Sanderson, Ujemori
 - (D) Tannenbaum, Ramirez
 - (E) Ujemori, Wong
23. Which one of the following pairs of witnesses CANNOT testify first and second, respectively?
 - (A) Sanderson, Ujemori
 - (B) Tannenbaum, Mangione
 - (C) Tannenbaum, Sanderson
 - (D) Ujemori, Tannenbaum
 - (E) Ujemori, Wong

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.