SECTION I Time—35 minutes 22 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.

Questions 1-5

Mary has six colored pencils: gray, brown, orange, red, turquoise, and green. She outlines a drawing using exactly five of the six pencils, one pencil at a time. The following conditions apply:

No pencil is used more than once.

Either the turquoise pencil or the brown pencil is not used. The red pencil is used at some point before the green pencil.

The red pencil is used at some point before the orange pencil or the brown pencil, but not before both of them.

The green pencil is used at some point before the turquoise pencil or the gray pencil, but not before both of them.

- 1. Which of the following could be an accurate list of pencils that are used, from first to fifth?
 - (A) turquoise, green, gray, red, orange
 - (B) turquoise, red, green, gray, brown
 - (C) red, green, orange, gray, brown
 - (D) red, gray, orange, green, turquoise
 - (E) gray, red, turquoise, green, orange



- 2. If the gray pencil is used fourth, then which one of the following could be true?
 - (A) The orange pencil is used first.
 - (B) The green pencil is used second.
 - (C) The turquoise pencil is used third.
 - (D) The orange pencil is used third.
 - (E) The turquoise pencil is used fifth.
- 3. Which one of the following CANNOT be the color of the fifth pencil used?
 - (A) green
 - (B) turquoise
 - (C) orange
 - (D) gray
 - (E) brown

- 4. If the turquoise pencil is used, then which one of the following must be false?
 - (A) The turquoise pencil is used first.
 - (B) The orange pencil is used first.
 - (C) The turquoise pencil is used before the green pencil.
 - (D) The turquoise pencil is used rather than the orange pencil.
 - (E) The orange pencil is used before the turquoise pencil.
- 5. Suppose the condition that either the turquoise pencil or the brown pencil is not used no longer applies. If all the other conditions hold, then which of the following could be an accurate list of pencils that are used, from first to fifth?
 - (A) turquoise, red, green, orange, brown
 - (B) turquoise, brown, red, green, gray
 - (C) orange, green, red, brown, turquoise
 - (D) orange, red, turquoise, green, gray
 - (E) gray, red, green, turquoise, brown



In a reservation there are at least two of the following six kinds of birds: geese, hawks, finches, múcaros, nightingales, and thrushes. There is no other type of bird in the reservation. The following conditions must be maintained:

- If there are geese in the reservation, then there are no finches.
- If there are thrushes in the reservation, then there are no nightingales.
- There are thrushes or finches in the reservation, but not both.
- If in the reservation there are hawks, múcaros or both, then there are finches.

- 6. Which one of the following could be a complete and accurate list of the kinds of birds in the reservation?
 - (A) hawks, geese
 - (B) nightingales, finches
 - (C) hawks, thrushes, múcaros
 - (D) geese, nightingales, thrushes
 - (E) geese, nightingales, múcaros



- 7. If there are both hawks and múcaros in the reservation, then each of the following could be true, EXCEPT:
 - (A) There are exactly three kinds of birds in the reservation.
 - (B) There are exactly four kinds of birds in the reservation.
 - (C) There are nightingales in the reservation.
 - (D) There are thrushes in the reservation.
 - (E) There are finches in the reservation.
- 8. If there are no hawks in the reservation, then which one of the following must be true?
 - (A) There are no múcaros in the reservation.
 - (B) There are no finches in the reservation.
 - (C) There are nightingales in the reservation.
 - (D) There are at least three kinds of birds in the reservation.
 - (E) There are at most three kinds of birds in the reservation.

- 9. Which one of the following is a list of two kinds of birds that cannot both be in the reservation?
 - (A) hawks, nightingales
 - (B) hawks, finches
 - (C) geese, nightingales
 - (D) geese, thrushes
 - (E) nightingales, múcaros
- 10. Which one of the following is a list of two kinds of birds that cannot both be absent from the reservation?
 - (A) geese, finches
 - (B) geese, thrushes
 - (C) geese, nightingales
 - (D) hawks, finches
 - (E) hawks, nightingales
- 11. If there are no thrushes in the reservation, then which one of the following is a type of bird that CANNOT be in the reservation?
 - (A) hawks
 - (B) geese
 - (C) nightingales
 - (D) múcaros
 - (E) finches



Questions 12-17

Last year, seven stores—*Fred's Megastores, Smart Offices, Planet Micro, Unlimited Networks, Virtual Solutions, TeknoWorld* and *Computer Pathways*—sold, each exactly 100, 200, 300, 400, or 500 computers in accordance with the following conditions:

Virtual Solutions sold exactly the same number of computers as *Unlimited Networks*.

Smart Offices sold exactly the same number of computers as *TeknoWorld*.

Neither *Fred's Megastores* nor *Computer Pathways* sold exactly the same number of computers as other stores.

Planet Micro sold more computers than TeknoWorld.

Smart Offices sold more computers than Virtual Solutions.

12. Which one of the following could be an accurate list of the stores and the number of computers sold last year?

- (A) 100: Fred's Megastores
 200: Virtual Solutions, Unlimited Networks
 300: Smart Offices, TeknoWorld
 400: Planet Micro
 500: Computer Pathways
- (B) 100: Fred's Megastores
 200: Virtual Solutions, Unlimited Networks
 300: Planet Micro
 400: Smart Offices, TeknoWorld
 500: Computer Pathways
- (C) 100: Computer Pathways
 200: Virtual Solutions
 300: Smart Offices, TeknoWorld
 400: Planet Micro
 500: Fred's Megastores, Unlimited Networks
- (D) 100: Computer Pathways
 - 200: Smart Offices, TeknoWorld 300: Virtual Solutions, Unlimited Networks 400: Planet Micro 500: Fred's Megastores
- (E) 100: TeknoWorld
 200: Planet Micro
 300: Virtual Solutions, Unlimited Networks
 400: Smart Offices
 500: Fred's Megastores, Computer Pathways



- 13. If *Fred's Megastores* sold more computers than *Planet Micro* last year, then each of the following could be true, EXCEPT:
 - (A) *Fred's Megastores* sold exactly 400 computers last year.
 - (B) *Virtual Solutions* sold exactly 300 computers last year.
 - (C) *Smart Offices* sold exactly 300 computers last year.
 - (D) Unlimited Networks sold exactly 200 computers last year.
 - (E) *Computer Pathways* sold exactly 500 computers last year.
- 14. If *Computer Pathways* sold exactly 400 computers last year, then which one of the following must be false?
 - (A) *Virtual Solutions* sold exactly 300 computers last year.
 - (B) *Smart Offices* sold exactly 300 computers last year.
 - (C) *Planet Micro* sold exactly 300 computers last year.
 - (D) Unlimited Networks sold exactly 200 computers last year.
 - (E) TeknoWorld sold exactly 200 computers last year.

- 15. Which one of the following stores COULD NOT have sold exactly 400 computers last year?
 - (A) Fred's Megastores
 - (B) Virtual Solutions
 - (C) Smart Offices
 - (D) Computer Pathways
 - (E) TeknoWorld
- 16. Which one of the following stores COULD NOT have sold exactly 200 computers last year?
 - (A) Fred's Megastores
 - (B) Virtual Solutions
 - (C) Smart Offices
 - (D) Planet Micro
 - (E) Computer Pathways
- 17. Which one of the following must be true?
 - (A) *Fred's Megastores* sold more computers than *Virtual Solutions* last year.
 - (B) *Smart Offices* sold more computers than *Computer Pathways* last year.
 - (C) *Planet Micro* sold more computers than *Fred's Megastores* last year.
 - (D) *Computer Pathways* sold more computers than *Virtual Solutions* last year.
 - (E) *TeknoWorld* sold more computers than *Unlimited Networks* last year.



Questions 18-22

Arbutus College owns exactly four houses that are rented to teachers or students. Of these houses, there are no two that are exactly the same distance from the Arbutus campus, and each one of them is a student house (occupied solely by students) or a teacher house (occupied exclusively by teachers). The duration of each house's lease is one, two, or three semesters. The following conditions must be maintained:

No student house has a lease agreement for three semesters. At least two houses each have leases for longer than the house closest to the campus.

Each student house (if there is one) is further away from the campus than any teacher house (if there is one).

- 18. Which one of the following could be a complete and accurate list of the lease agreements of the student houses, from the student house that is closest to the campus to the student house that is furthest away from the campus?
 - (A) one semester, one semester
 - (B) two semesters, three semesters
 - (C) one semester, two semesters, one semester
 - (D) one semester, two semesters, two semesters, one semester
 - (E) one semester, two semesters, three semesters, two semesters



- 19. Which one of the following could be true of the house that is furthest away from the campus?
 - (A) It is one of exactly two teacher houses.
 - (B) It has a lease agreement that lasts exactly the same as that of the other three houses.
 - (C) It is the only house that does not have a lease agreement for three semesters.
 - (D) It is one of exactly three houses with a lease agreement for one semester.
 - (E) It is one of exactly three houses with a lease agreement for two semesters.
- 20. If exactly three of the houses are teacher houses, then which one of the following must be true?
 - (A) At least one teacher house has a lease agreement of greater duration than that of the student house.
 - (B) The student house has a lease agreement of greater duration than that of at least one teacher house.
 - (C) No more than two houses have a lease agreement for three semesters.
 - (D) No more than two houses have a lease agreement for two semesters.
 - (E) At least one house has a lease agreement for one semester.

- 21. If the house that is furthest away from the campus has a lease agreement of greater duration than that of each of the other houses, then which one of the following could be true?
 - (A) Each teacher house has a lease agreement for two semesters.
 - (B) Exactly two houses have a lease agreement for one semester.
 - (C) Exactly three houses have a lease agreement for two semesters.
 - (D) None of the houses has a lease agreement for one semester.
 - (E) None of the houses has a lease agreement for two semesters.
- 22. What is the maximum number of houses that can be student houses with lease agreements of two semesters?
 - (A) zero
 - (B) one
 - (C) two
 - (D) three
 - (E) four

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.

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