Directions: The questions below aim to test your critical thinking skills and logical reasoning. Read the statements carefully and select the letter of the correct answer for each question. Every given statement is assumed to be true.

1 . Either Michael will go to the shop today to buy new tools or he will borrow tools from his neighbor. Michael went to the shop today, then _____.
  (A) Michael did not borrow tools from his neighbor
  (B) Michael borrow tools from his neighbor
  (C) Michael did not go to the shop.
  (D) None of the above.

2. If the price of the bicycle declines by at least 20% next month, either Allen's mom or Allen's aunt will buy the bicycle. Which of the following is a necessary condition for Allen's mom to buy the bicycle?
  (A) The price of the bike does not decline by at least 20% next month and Allen's aunt did not buy the bike
  (B) The price of the bike declines by at least 20% next month and Allen's aunt did not buy the bike.
  (C) The price of the bike declines by at least 20% and Allen's aunt buy the bike
  (D) None of the above

3. Ana is taller than Belle. Belle is taller than Rizzy. Which of the following is TRUE?
  (A) Rizzy is shorter than Ana
  (B) Ana is shorter than Rizzy
  (C) Belle is shorter than Rizzy
  (D) Rizzy is the tallest among the three

4. Car A is behind Car B, Car D is behind Car A while Car C is in between Car A and Car B. If Car D overtakes Car C and Car A overtakes Car D and Car C overtakes Car A. Which car is behind Car C?
  (A) Car A
  (B) Car B
  (C) Car C
  (D) Car D

5. All members of the institute are participants of the annual conference. All participants of the annual conference are chemists. Salazar is a participant of the annual conference. Which of the following is certainly true?

(A) Salazar is a chemist
(B) Salazar is a member of the institute.
(C) Salazar is not a chemist
(D) Salazar is a chemist who is a member of the institute.

6. From City A, City B is farther than City D but not as far as City P. City Q is farther than City D but not as far as City B. City R is farther than City B but not as far as City P. Which of the following cities is the fourth farthest city from City A?
   (A) City Q
   (B) City R
   (C) City D
   (D) City C

7. A bike is more expensive than a flower pot but not as expensive as an oven toaster. A paintbrush is cheaper than a bike but not as cheap as a flower pot. A desk is more expensive than a bike but not as expensive as an oven toaster. Which of the following is FALSE?
   (A) A bike is cheaper than a desk
   (B) A paintbrush is more expensive than a flower pot
   (C) The desk is the most expensive of the items
   (D) The desk is cheaper than the oven toaster.

8. Some hard working people are students. All students are punctual. Jen is hardworking. Which of the following is certainly true?
   (A) Jen is a student.
   (B) Jen is a punctual student.
   (C) Jen is not a student
   (D) None of the above.

9. All actors are versatile people.
   All versatile people are competent people.
   All competent people are actors.
   The third statement is _____?
   (A) True
   (B) False
   (C) Uncertain

10. If the student obtained an average of at least 89% in this semester, then he is qualified for the dean's award. If the student did not qualify for the dean's award, then _____.
   (A) The student obtained an average of at least 89% in this semester.

(B) The student's average is below 90% this semester.
(C) The student's average is less than 89% this semester.
(D) None of the above.

11. If the day after tomorrow's yesterday is Monday.What is the day after yesterday's tomorrow?
(A) Friday
(B) Saturday
(C) Sunday
(D) Monday

12. Here are some words translated from an artificial language:

XYUIOWTD - roundtable
OWTDAXYZ - tabletop
AXYOJJU - topfloor

Which of the following is equivalent to XYUIOJJU?
(A) topround
(B) floortop
(C) floorround
(D) roundfloor
(E) topfloor

13. Carrie's basket has more fruits than Jenna's basket. Letty's basket has fewer fruits than Jenna's basket. Which of the following is TRUE?
(A) Jenna has the most number of fruits in the basket.
(B) Carrie's basket has fewer fruits than Letty's basket.
(C) Letty's basket has fewer fruits than Carrie's basket.
(D) None of the above.

14. All mailmen are trustworthy.
All trustworthy people are wearing yellow.
Only patient people are mailmen
All people who are patient are wearing yellow.
The fourth statement is _____.
(A) True
(B) False
(C) Uncertain

15. Here are some words translated from an artificial language:

PQTYUIOU - background
UIOUERXT - groundwater
TYRYUIOU - underground

Which of the following is the equivalent of "water" in the artificial language?
(A) ERXT
(B) PQTY
(C) UIOU
(D) TYRY

16. All mathematicians are analytical persons. All programmers are mathematicians. Arwin is a mathematician. Which of the following is certainly true?
(A) Arwin is a programmer
(B) Arwin is an analytical programmer
(C) Arwin is an analytical person
(D) None of the above.

17. If the company's sales increase this month, either the company will organize a party or will give incentives for the employees. Which of the following is a necessary condition for the company to give incentives for the employees?
(A) The company's sales increased this month and it did not give incentives to the employees
(B) The company's sales decreased this month and it did not organize a party for the employees.
(C) The company's sales decreased this month and it gave incentives to the employees.
(D) The company's sales increased this month and it did not organize a party for the employees.

18. Some of my mother's visitors are wealthy. Jessie is one of my mom's visitors. Jessie is wealthy.
The third statement is _____.
(A) True
(B) False
(C) Uncertain

19. If Jessie obtained a higher grade in her classes, she will watch the newly released movie. If she watches the newly released movie, then she will buy a new headset. If Jessie obtained a higher grade in her class, then _____.
    (A) her mom will be happy.
    (B) her mom will give Jessie incentives.
    (C) she will buy a new headset
    (D) she will watch the movie with her friend

20. A teapot is cheaper than a stove but not as cheap as a plate. A blender is more expensive than a stove but not as expensive as a microwave. A cake is cheaper than a stove but not as cheap as a teapot. Which of these items is the third most expensive?
    (A) microwave
    (B) teapot
    (C) blender
    (D) stove