1. If the letter of the word "**MARKETING**" are arranged alphabetically, then which letter be the nearest to the fourth letter of the word?
   A. E
   B. I
   C. G
   D. K

   ANSWER:

2. Based on the above question, which letter is the farthest to the last letter of the word?
   A. E
   B. R
   C. A
   D. I

   ANSWER:

3. Alemu and Gamachu are brothers. Abebech is a mother of Alemu. Ayantu is a mother of Bikila. If Bikila is son of Gamada, then how is Abebech related to Ayantu?
   A. Mother
   B. Mother-in-law
   C. Nephew
   D. Son-in-law

   ANSWER:

4. Identify the missing number in the series 5, 20.25, 45, 70, _____, 185, 300?
   A. 20
   B. 70
   C. 115
   D. 179

   ANSWER:

Question 5-9: Read the following below and solve the questions based on it.

There are seven teachers S, T, U, V, W, X, and Y teaching seven subjects Drawing, IT, Citizenship, physical fitness, Art, Moral and Environmental Science from Monday to Friday. Each teacher teaches a different subject and not more than two subjects are taught on any one of the days.

i) Physical fitness is taught by teacher T on Tuesday.
ii) Teacher V teaches on Friday but neither IT nor Citizenship.
iii) Teacher X teaches Drawing but neither on Thursday nor on Friday.

iv) Teacher S teaches Environmental Science on the day on which Drawing is taught.
v) Teacher U teaches Art on Monday
vi) IT and Physical fitness are taught on the same day.
vii) Teacher Y teaches on Thursday.

5. In which of the following days is Environmental Science taught?
   A. Monday
   B. Wednesday
   C. Tuesday
   D. Cannot be determined.

   ANSWER:

6. Which of the following subject is taught by teacher Y?
   A. Moral
   B. IT
   C. Citizenship
   D. Physical fitness

   ANSWER:

7. On which of the following days is IT is taught?
   A. Monday
   B. Tuesday
   C. Wednesday
   D. Thursday

   ANSWER:

8. Which subject is taught on Friday?
   A. Citizenship
   B. Drawing
   C. IT
   D. Moral

   ANSWER:

9. Which of the following pairs of teachers on Tuesday?
   A. T&V
   B. S&T
   C. T&W
   D. T&X

   ANSWER:

10. In a row of five persons facing north, Tadele is to the right of Bekele who is second to the left of Muzein. Mamo, who is second to the right of Leta, is an immediate neighbor of Bekele and Muzein. Who is standing in the middle of the row?
    A. Bekele
    B. Leta
    C. Mamo
    D. Tadel

    ASNWER:

Question 7&8: Based on the following paragraph, give the answer accordingly.

Selfishness is a principal evil in our society. Every person is concerned with only himself. Personal advancement is the only motivating force in the world today. This does not mean that individual, are not willing to help one another, on the contrary, _____. However, these are only short-term occurrences, which ultimately serve our long-term goal of personal gain.

11. To fill in the blank in the above passage, select one of the options from the below mentioned options:
    A. We are always trying to undermine others endeavors.
    B. People always deceive one another.
    C. Even close friends are not trustworthy.
    D. People want power to control others.

    ASNWER:

12. Which among the following options would most strongly contradict the author's attitude towards society?
    A. The greatest strength of society is altruism.
    B. We must all learn the art of love.
    C. Our short-term actions may contradict our long-term goals.
    D. Morality is the bedrock of a growing community.

    ANSWER:

13. Homeowners aged 40 to 50 are more likely to purchase ice cream and are more likely to purchase it in larger amounts than are members of any other demographic group. The popular belief that teenagers eat more ice cream than adults must, therefore, be false. The argument is flawed primarily because the author
    A. fails to distinguish between purchasing and consuming
    B. does not supply information about homeowners in age groups other than 40 to 50
    C. depends on popular belief rather than on documented research findings

D. does not specify the precise amount of ice cream purchased by any demographic group
E. discusses ice cream rather than more nutritious and healthful foods

ANSWER:

14. In the first message to Congress, Harry Truman said, "The responsibility of the United States is to serve and not dominate the world." Which of the following is one basic assumption underlying Truman's statement?
    A. The United States is capable of dominating the world.
    B. The United States chooses a serve rather than dominate the world.
    C. World domination is a virtue.
    D. One must be decisive when facing a legislative body for the first time.

    ANSWER:

Question 15-17 is based on the following resolution: Resolution: "**Early marriage should be abandoned in many cultures**". Some of the following statements are arguments for the resolution, some are arguments against it, and some are neither for nor against the resolution. Read each of the following statements and select the convincing argument.

15. In developing counties early marriage seen as a mechanism to save virginity and give to legalized husband.
    A. It is an argument for the resolution
    B. It is neither for nor against the resolution
    C. It is an argument against the resolution
    D. It is undecided

    ANSWER:

16. Polygamy marriage is common in most tribal communities in Africa.
    A. It is undecided
    B. It is an argument against the resolution
    C. It is neither for nor against the resolution
    D. It is an argument for the resolution

ANSWER:

17. Early marriage inhibits girls' personal development; it hinders girls' chance to education and future professional development.
    A. It is an argument against the resolution
    B. It is an argument for the resolution
    C. It is undecided

D. It is neither for nor against the resolution

ANWER:

18. Astronomer: Most stars are born in groups of thousands, each star in a group forming from the same parent cloud of gas. Each cloud has a unique, homogeneous chemical composition. Therefore, whenever two stars have the same chemical composition as each other, they must have originated from the same cloud of gas. Which of the following, if true, would most strengthen the astronomer's argument?
    A. In some groups of stars, not every star originated from the same parent cloud of gas.
    B. Clouds of gas of similar or identical chemical composition may be remote from each other.
    C. Whenever a star forms, it inherits the chemical composition of its parent cloud of gas.
    D. Many stars in vastly different parts of the universe are quite similar in their chemical compositions.

    ANSWER:

19. Mizan Tepi University wants to appoint a new president, based on seniority. Dr. Lemecha has less seniority than Dr. Kero, but more than Dr Enkezia.. Dr. Ataklty has more seniority than Dr. Lemecha, but less than Dr. Kero. Dr. Eskezia doesn't want the job. Who will be the new President of the University?
    A. Dr. Lemecha
    B. Dr. Kero
    C. Dr. Eskezia
    D. Dr. Ataklty

    ANSWER:

20. A provincial government plans to raise the gasoline tax to give people an incentive to drive less, reducing traffic congestion in the long term. However, skeptics point out that most people in the province live in areas where cars are the only viable transportation to jobs and stores and therefore cannot greatly change their driving habits in response to higher gasoline prices. In light of the skeptics' objection, which of the following, if true, would most logically support the prediction that the government's plan will achieve its goal of reducing traffic congestion?
    A. The revenue from the tax will be used to make public transportation a viable means of transportation to jobs and stores for far more people.
    B. The tax will encourage many residents to switch to more fuel-efficient cars, reducing air pollution and other problems.

C. Because gasoline has been underpriced for decades, the province has many neighborhoods where cars are the only viable means of transportation.
D. Most residents who cannot greatly change their driving habits could compensate for high gasoline prices by reducing other expenses.
E. Traffic congestion is an especially serious problem for people for whom cars are the only viable means of transportation.

ANSWER:

Section I: Analogy questions

Directions: Items 1 to16 deal with verbal analogy questions. A related pair of words written in CAPITAL letters is followed by four pairs of words or phrases. Select the letter with a pair that has the same relationship as the original CAPITALIZED pair and put the letter of your Choice on the separate answer sheet provided.

21. SHEEP: FLOCK

A. Singer: bouquet
B. Man: Cavalcade
C. Bee: swarm
D. Fish: horde

ANSWER:

22. MAN: CHILD

A. Scale: Mass
B. Hygrometer: Wind vane
C. Resistance :Joule
D. Cat: Kitten

ANSWER:

23. DOG: BITCH

A. Stage: Daughter
B. Sorcerer: Sorceress
C. Drone: Niece
D. Tigress: Tiger

ANSWER:

24. FISH: AQUARIUM

A. Lion: Den
B. Poultry: Stable
C. Whale: Mammal
D. Horse: Aviary

ANSWER:

25. TAILOR : NEEDLE

A. Doctor: pen
B. Sculptor::Axe
C. Surgeon: stethoscope
D. Laborer: spade

ANSWER:

26. MICROSCOPE: MAGNIFY

A. Engineer: house
B. Gambler: Shop
C. Beautician: Parlour
D. Waiter: cabin

ANSWER:

27. EDITOR: NEWSPAPAER

A. Cobbler: Shoes
B. Poet: Film
C. Producer: food
D. Pray: Hunter

28. BLEND: MIX

A. Dearth: Allot
B. Fallacy: illusion
C. Solicit: Predict
D. Flaw: violent

Answer:

29. ROBUST: WEAK

A. Gentile: shallow
B. Destroy: expand
C. Peace: Attack
D. Mourn: rejoice

ANSWER:

30. VIGILANT: ALERT, VIABLE----?

A. Active
B. Gentile
C. Hopeless
D. Feasible

ANSWER:

31. FORECAST: FUTURE , REGRET -----

A. Present
B. Atone
C. Past
D. Sins

ANSWER:

32. MELT: LIQUID, FREEZE-------?

A. Ice
B. Condense
C. Solid
D. Crystal

ANSWER:

33. MUSLIMS: MOSQUE, SIKHS -----?

A. Golden Temple
B. Medina
C. Fire Temple
D. Gurudwara

ANSWER:

34. PAW: CAT, HOOF ----?

A. Horse
B. Lion
C. Lamb
D. Elephant

ANSWER:

35. TRACTOR: TRAILER, HORSE----?

A. Stable
B. Cart
C. Saddle
D. Engine

ANSWER:

36. CAR: GARAGE, AIRPLANE ------

A. Port
B. Depot
C. Hangar
D. Harbour

ANSWER:

37. VENERATE: WORSHIP, EXTOL----?

A. Glorify
B. Homage
C. Complement
D. Recommend

ANSWER:

38. GROWTH: DEATH, INCREASE-----?

A. Ease
B. Decrease
C. Tease
D. Cease

ANSWER:

39. DOG: BARK, GOAT -------

A. Bleat
B. Howl
C. Grunt
D. Bray

ANSWER:

40. Gobbler: leather, carpenter-----?

A. Furniture
B. Wood
C. Hammer
D. Chair

ANSWER:

Sentence Completion

Directions: Four alternatives (A), (B), (C) and (D) are given for each (Items 21-24). Select the alternative that fills best in the blank/blanks in the sentence and write the letter of your choice on the separate answer sheet provided.

41. Since the townspeople were so dissatisfied, various methods to --------- the situation were debated.

    A. Alleviate
    B. Tolerate
    C. Clarify
    D. Intensify

    ANSWER:

42. The news about toxic waste dumping ---------- the anger of many viewers of the news broadcast.

    A. informed
    B. appeased
    C. provoked
    D. deceived

    ANSWER:

43. The athlete was ----------at handling the ball.

    A. Clumsy
    B. Large
    C. Obnoxious
    D. Adroit

    ANSWER:

44. The attorneys were now certain they could not win the case, because the ruling had proved to be so ----------to their argument.

    A. Decisive
    B. Detrimental
    C. Worthless
    D. Advantageous

Direction: For questions 25-30, choose a word which has equivalent meaning with word written in bold

45. My brother drives us crazy by ***crooning*** in the shower.

A. Hooting
B. Bellowing
C. Crying
D. Shouting

ANSWER:

46. Mark seems very ***pensive*** today.

A. Writing
B. Hostile
C. Cooped-up
D. Thoughtful

ANSWER:

47. The air in the rainforest was *humid,* making the heat seem even more smothering than before.

A. Hot
B. Damp
C. Hazy
D. Volatile

ANSWER:

48. Because of his disregard for the king's laws, the prince was punished by being **banished** from the kingdom.

A. apart
B. Kidnapped
C. Exiled
D. Spirited

ANSWER:

49. Cindy had some **trepidation** about marrying George, because he was sometimes violent.

A. Enthusiasm

B. Ignorance

C. Fear

D. Urgency

ANSWER:

50. **Palm** is related to **hand** in the same way **Sole** is related to --------?

A. Leg

B. Ankle

C. Knee

D. foot

ANSWER:

Section II: Reading Comprehension

Direction: Directions: Read the passage below and answer the questions.

History of the Chickenpox Vaccine

Chickenpox is a highly contagious infectious disease caused by the **Varicella zoster** virus; sufferers develop a fleeting itchy rash that can spread throughout the body. The disease can last for up to 14 days and can occur in both children and adults, though the young are particularly vulnerable. Individuals infected with chickenpox can expect to experience a high but **tolerable** level of discomfort and a fever as the disease works its way through the system. The ailment was once considered to be a “rite of passage” by parents in the U.S. and thought to provide children with greater and improved immunity to other forms of sickness later in life. This view, however, was altered after additional research by scientists demonstrated unexpected dangers associated with the virus. Over time, the fruits of this research have transformed attitudes toward the disease and the utility of seeking preemptive measures against it.

A vaccine against chickenpox was originally invented by Michiaki Takahashi, a Japanese doctor and research scientist, in the mid-1960s. Dr. Takahashi began his work to isolate and grow the

virus in 1965 and in 1972 began clinical trials with a live but weakened form of the virus that caused the human body to create antibodies. Japan and several other countries began widespread chickenpox vaccination programs in 1974. However, it took over 20 years for the chickenpox vaccine to be approved by the U.S. Food & Drug Administration (FDA), finally earning the U.S. government's seal of approval for widespread use in 1995. Yet even though the chickenpox vaccine was available and recommended by the FDA, parents did not immediately choose to vaccinate their children against this disease. Mothers and fathers typically cited the notion that chickenpox did not constitute a serious enough disease against which a person needed to be vaccinated.

Strong belief in that view eroded when scientists discovered the link between *Varicella zoster* , the virus that causes chickenpox, and shingles, a far more serious, harmful, and longer-lasting disease in older adults that impacts the nervous system. They reached the conclusion that **zoster** remains dormant inside the body, making it significantly more likely for someone to develop shingles. As a result, the medical community in the U.S. encouraged the development, adoption, and use of a vaccine against chickenpox to the public. Although the appearance of chickenpox and shingles within one person can be many years apart—generally many decades—the increased risk in developing shingles as a younger adult (30-40 years old rather than 60-70 years old) proved to be enough to convince the medical community that immunization should be preferred to the traditional alternative.

Another reason that the chickenpox vaccine was not immediately accepted and used by parents in the U.S. centered on observations made by scientists that the vaccine simply did not last long enough and did not confer a lifetime of immunity. In other words, scientists considered the benefits of the vaccine to be temporary when given to young children. They also feared that it increased the odds that a person could become infected with chickenpox later as a young adult, when the rash is more painful and prevalent and can last up to three or four weeks. Hence, allowing young children to develop chickenpox rather than take a vaccine against it was believed to be the "lesser of two evils." This idea changed over time as **booster shots** of the vaccine elongated immunity and **countered** the perceived limits on the strength of the vaccine itself.

Today, use of the chickenpox vaccine is common throughout the world. Pediatricians suggest an initial vaccination shot after a child turns one year old, with booster shots recommended after the child turns eight. The vaccine is estimated to be up to 90% effective and has reduced worldwide cases of chickenpox infection to 400,000 cases per year from over 4,000,000 cases before vaccination became widespread. In light of such statistics, most doctors insist that the potential risks of developing shingles outweigh the benefits of avoiding rare complications associated with inoculations. Of course **,** many parents continue to think of the disease as an innocuous ailment, refusing to take preemptive steps against it. As increasing numbers of students are vaccinated and the virus becomes increasingly rarer, however, even this trend among parents has failed to halt the decline of chickenpox among the most vulnerable populations.

(Taken from Free TOEFL practice)

51. The word *tolerable* in the passage is closest in meaning to

A. Sudden
B. Bearable
C. Infrequent
D. Unexpected

ANSWER:

52. According to paragraph 1, which of the following is true of the chickenpox virus?

E. It leads to a potentially deadly disease in adults.
F. It is associated with a possibly permanent rash.
G. It is easily transmittable by an infected individual.
H. It has been virtually eradicated in the modern world.

ANSWER:

53. Which of the following can be inferred from paragraph 2 about the clinical trials for the chickenpox vaccine?

A. They took longer than expected.

B. They cost a lot of money to complete.

C. They took a long time to finish.

D. They were ultimately successful.

ANSWER:

54. The word ***notion*** in the passage is closest in meaning to

A. History

B. Findings

C. C fact

D. Belief

ANSWER:

55. According to paragraph 3, which of the following is true of *Varicella Zoster?*

A. It typically attacks adults who are over 60 years old.

B. It is linked to a serious disease that occurs more commonly in adults.

C. It likely is not a serious enough threat to human health to require a vaccine.

D. It is completely eradicated from the body after chickenpox occurs.

ANSWER:

56. According to paragraph 3, all of the following is true about the chickenpox virus EXCEPT:

A. It causes two distinct yet related ailments.

B. People did not view it as a serious public health threat.

C. It tended to quickly become dormant and remain inoperative over time.

D. Vaccination against it would help prevent the onset of shingles.

ANSWER:

57. The author uses ***booster shots*** as an example of

A. A scientifically approved medicine to eliminate chickenpox

B. A preferred method of chickenpox rash and fever treatment

C. A way to increase the effectiveness of the chickenpox vaccine

D. A strategy for parents to avoid vaccinating their child altogether

ANSWER:

58. According to paragraph 4, many parents did not choose the chickenpox vaccine because:

A. They believed that the virus was weak and not especially harmful

B. They thought that scientists did not have enough data to reach a conclusion

C. They were unsure about the utility of the vaccine given its expected duration

D. They were convinced it was potentially very toxic, particularly for older children

59. According to paragraph 5, which of the following was true of the rates of chickenpox before the chickenpox vaccine became widely used?

A. It was 10 times higher

B. It was consistently rising

C. It declined over time

D. It fluctuated over several decades

ANSWER:

60. The word ***prevalent*** in the passage is closest in meaning to

A. A. dangerous

B. Widespread

C. Infectious

D. Contaminated

Direction: Each of the question consists of two quantities, one in column A and one in column B. You are to compare the two quantities and choose:

A. If the quantity in column A is Less than
B. If the quantity in column B is greater
C. If the two quantities are equal
D. If the relationships cannot be determined from the information given

	Column A		Column B
61.	½ -3/4	_____	-1/2
62.	$(252)^2$ --$(255)^2$	_____	-255
63.	$(x+5)/(x^2+1)$ > 0	_____	-5

The Area of a square is 64 cm^2

64.	Perimeter	_____	8cm

a +(-b)=0

65.	a	_____	b

II. Direction Select The best Answer.

66. Lema and Kebede are firing at the same target independently. If the probability to hit the target is 0.5 and 0.5. what is the probability that at least one of them hits the target
    A. 0.5
    B. 0.25
    C. 0.75
    D. 1

ANSWER:

67. Among a group of students 70% of them like Geography, 20% like History & 5% like both. What is the probability that a student randomly selected from the group like neither Geography nor history
    A. 2
    B. 15
    C. 25
    D. 1

ANSWER:

68. If D IS 2/5 times of E then D is what the percentage of E
    A. 40%
    B. 20%
    C. 60%
    D. 50%

ANSWER:

69. What is the values of x and y in respectively

$$2x-3y=10 \quad \text{and} \quad 3x-4y=8$$

    A. 16,14
    B. 14,16
    C. -14, -16
    D. -16,-14

ANSWER:

70. Using the letters of the words MARKING and calling any arrangement words. How many 7 –letters words can be formed

A. 5040
B. 4050
C. 540
D. 40

ANSWER:

71. Based on question 10 how many 3-letters words can be formed

A. 210
B. 21
C. 120
D. 10

ANSWER:

72. If three coins are tossed, what is the probability that at least one tail turns up

A. ¾
B. 7/8
C. 3/8
D. 1/4

ANSWER:

73. What is the average of $3^3 + 3^2 + 3^1$

A. $3^2 + 3 + 1$
B. B. 3^5
C. C.3
D. D.9

ANSWER:

74. A Point (0,0) lies on the following line

A. X=0
B. Y=0
C. Y=2x
D. Y= X+1

ANSWER:

75. Suppose x and y are two quantities related by y=3/2(x)-2. What will happen to y when x decrease by 2

A. Y decrease by 2
B. y decrease by 3
C. y increase by 3/2
D. y decrease by 3/2

ANSWER:

76. A rectangular pool 2m wide and 6m long is surrounded by a walkway of uniform width . If the total area of the walkway 48 square meter.How,wide is the walkway

A.4

B. 3

C.2

D.1

ANSWER:

77. What is the area of a circle whose radius is the diagonal of a square whose perimeter is 16

A.2π B.32π C.8π D.4π

78. A person Crossed 200 meters Long Street 60 minutes. What is his speed in Km per hour

A. .2km/hr B. 7km/hr C. 6km/hr D. 9km/hr

Question 79-82 refers the following data

7,8,9,10,8,8,9

79. What is the mean of the data

A. 1 B. 9 C. 3 D.1.5

80. What is the median of the data

A. 3.5 B.8.5 C.2.5 D.2

81. What is Variance of the data

A . 4 B.2 C.$\sqrt{2}$ D.3

82. What is the Standard deviation of the data.

A . 4 B.2 C.$\sqrt{2}$ D.3

83. The If log2=0.3010 , find the value of log5

A. 0.4771 B. 0.6990 C. 0.5 D. .1

84. The angles of a triangle are the ratio 3:5:2. What is measure of the largest angle

A.90 B.36 C. 54 D. 30

85. What is the value of

$\frac{100!}{99!}$ A. 100 B.99 C. 100/99 D.1