

Answer Sheet: Remove this answer sheet and use it to fill in the letter choice corresponding to your answer choice. See the answer key at the end of the test to correct your answers when finished.

Name:

Date:

Start Time:

End Time:

Note: Use only BALL PEN (Black/Blue) to shade/fill the circles. Answer sheet contains five options of answer for one question, containing alphabets from A to E inside, against each question number. You are to fill one circle you think is the right answer.

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After taking the test in single sitting, take some rest and then compare your answers with the answer key in the following pages. You must fill in your performance in the evaluation sheet to have record for future comparison.

How to Take This Diagnostic Test

Before taking this Diagnostic Test find a quiet place where you can work uninterrupted for two hours. Make sure you have a comfortable desk and several ballpoints. Time yourself according to the time limit of the test. For the most accurate results, you should go through all three sections in one sitting. Use the answer grid on the following pages to record your answers to the multiple-choice question. You'll find the answer key, explanation of the answers to the questions, and performance evaluation following the test.

Good Luck.

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DIAGNOSTIC TEST

VERBAL REASONING

PREFIXES, SUFFIXES

1. What prefix would you add to the word 'finished' to show that there is still some work to be done?
A. in B. dis
C. un D. sub
E. an
2. The word pre-war means?
A. before the war B. during the war
C. after the war D. No war
E. Savage war

ANALOGIES

Directions: In each of the following questions, five lettered pairs of words or phrases follow a related pair of words or phrase. Select the lettered pair that best expresses a relationship similar to that expressed in the original pair.

3. THROAT: SWALLOW
A. Teeth : Chew B. Eyelid : Wink
C. Nose : Face D. Ear : Sound
4. QUICK : QUICKER ::
A. Fast : Lightning
B. Slow : Slowly
C. Drag : Plod
D. Good : Better
5. COTTON : SOFT
A. Wool : Warm
B. Iron : Hard
C. Nylon : Strong
D. Wood : Burn

ANTONYMS

Directions: Each item below consists of a word printed in capital letters, followed by five lettered words or phrases. Choose the lettered word or phrase that is more nearly opposite in meaning from the word in capital letters. Since some of the questions require you to distinguish fine shades of

meaning, be sure to consider all the choices before deciding which one is the best.

6. GRATUITOUS:
A. Grateful B. Pretentious
C. Suffering D. Gracious
E. Befitting
7. FALLOW:
A. Callow B. Notorious
C. Approbation D. productive
E. Immoral
8. METTLE:
A. Concomitant B. Sorrowful
C. Herb D. perdition
E. Temptation

CONCEPTUAL

Direction: Each sentence below has one blank, each blank indicating that something has been omitted. Beneath the sentence are five lettered words or sets of words. Choose a set of words for each pair of blanks that best fits the meaning of the sentence as whole.

9. The rain forest, _____ large trees that provide shade to the vegetation below, is home to unique flora and fauna.
A. has B. with its
C. and D. although has
10. Despite the polar bear's tremendous weight and height, _____ of sprinting at tremendous speed.
A. it is capable B. is capable
C. it is able D. ability

GRAMMAR

Directions: Read each sentence carefully. If you find an error, select the underlined part that is incorrect. Some sentences contain no error, in which case choose answer E.

11. Having multiple sclerosis has diminished Mr. Juneju's physical condition,

A

B

but his ability to maintain a positive attitude and continue working an inspiration.

C

D

12. The huge increase in popularity of specialty coffees contribution to the success of

A

B

C

Starbucks, Barney's and other coffee purveyors.

D

13. After it had conclude work on the budget, the legislature adjourned until the

A

B

C

D

next session.

14. Even when awarded a scholarship, a student generally must still paying for

A

B

books, living expenses, and other costs.

C

D

15. The government, along with a number of cities, is fight a protracted legal battle

A

B

with tobacco companies in order to obtain relief for the huge

C

D

medical costs caused by smoking.

16. The teachers are expecting to call tomorrow a meeting in order to review the

A

B

C

disciplinary problems.

D

17. If the man had transported to the hospital sooner than he was, he could have survived the

A

B

C

D

electrocution.

Directions: Part of the given sentence is underlined. Choose the answer choice which is the best version of the underlined part. Choice A is unchanged. Select the version which is the most effective expression - correct grammar, clear and unambiguous.

18. The public soon became outraged at the Cabinet member whom betrayed the public trust, and they demanded his ouster by the prime minister.
- A. the Cabinet member whom betrayed the public trust
 - B. the untrustworthy Cabinet member
 - C. the Cabinet member with whom they betrayed the public trust
 - D. the Cabinet member who, after betraying the public trust
 - E. the Cabinet member who betrayed the public trust
19. Ayub was sorry he had agreed to employ his cousin's law firm, because at first meeting with the lawyer, the lawyer seemed indecisive.
- A. at first meeting with the lawyer, the lawyer seemed indecisive
 - B. at first meeting, the lawyer seemed indecisive
 - C. at first meeting the lawyer seems indecisive
 - D. at first meeting, he seemed an indecisive lawyer
 - E. at first meeting the lawyer, he seems indecisive
20. The most recent National Conference of Mathematics Teachers addressed the problem of convincing students who rely on calculators that the ability to calculate mentally or with pencil and paper is important.
- A. The most recent National Conference of Mathematics Teachers addressed the problem of convincing students who
 - B. The most recent problem faced by the National Conference of Mathematics Teachers was convincing students who
 - C. The most recent National Conference of Mathematics Teachers addressed the problem of convincing students whom
 - D. Most recently, the National Conference of Mathematics Teachers addressed the problem of convincing students who
 - E. The most recent National Conference of Mathematics Teachers addressed those students who
21. No matter what experience you have had with forest fires, if you would have witnessed the fire roaring down through the canyon, you would have been terrified.
- A. if you would have witnessed
 - B. if you witnessed
 - C. if you could witness
 - D. if you had witnessed
 - E. when you witnessed
22. Recounting a painful childhood experience, the woman remembered that her father was very angry when she failed the fifth grade because she could see him shaking with anger.
- A. Recounting a painful childhood experience, the woman remembered that her father was very angry when she failed the fifth grade because she could see him shaking with anger.
 - B. Recounting a painful childhood experience, the woman recounted that her father was shaking with anger when she failed the fifth grade.
 - C. Painfully, the woman remembered when she failed the fifth grade and when her father was shaking with anger.
 - D. The failure of the fifth grade and her father's anger were painful for the woman recounting the experience.
 - E. The woman described her father's shaking with anger when he learned that she had failed the fifth grade.
23. Some local car manufacturers promise to give rebates to new customers between June 1 and June 30, granting the returned money during June but not thereafter.
- A. granting the returned money during June but not thereafter
 - B. during June but not thereafter granting the returned money during June but not thereafter
 - C. but not thereafter

- D. no money after that
- E. denying those who purchase before or after June

24. Ayela Khan was unable to attend her son's basketball games because she worked the night shift, arriving at 10 p.m. and leaving at 6 a.m.
- A. arriving at 10 p.m. and leaving at 6 a.m.
 - B. having arrived at 10 p.m. and leaving at 6 a.m.
 - C. she arrived at 10 p.m. and left at 6 a.m.
 - D. with an arrival at 6 and a departure at 10
 - E. from 10 p.m. to 6 a.m.

COMPREHENSION

Passage:

All terrestrial life depends on a sufficient supply of oxygen for its day-to-day survival. A large portion of it is supplied by the trees which dot the landscape. Trees take carbon dioxide from the surrounding air and in return they create a large amount of oxygen. Ironically, human beings, who cut down large numbers of trees to create land, shelter, and energy, pose the most significant threat to the survival of the world-wide tree population. But humans are not the only force that threatens the survival of these mighty members of the plant kingdom. Trees---among the oldest and largest organisms on the planet---face many other dangers. Lightning, fire, and other natural disasters, for example, can destroy many square miles of old-growth forest in a matter of hours. Disease-causing fungi and insect pests can also eradicate entire populations of trees within a particular region. After humans, however, the factor which most determines whether a particular species of tree will prosper in a given area is climate. In particular, the amount of rainfall and the range of temperatures that a region experiences strongly affect the distribution of tree species. All species of trees have evolved from plants that flourished many centuries ago in the warm and wet tropical regions of the planet. As the distribution of trees has spread to other regions, the differing climates of these regions have effectively limited the types of trees that can live there. The greater the range of temperature and rainfall that a species of tree can

withstand, the more adaptable it is and therefore the wider its range of distribution.

Questions

25. The main focus of the author in the passage is?
- A. The importance of the Earth's oxygen supply
 - B. Humankind's effect on the environment
 - C. Dangers facing the Earth's trees
 - D. The survival strategies of tree populations
26. The word "dot" in line 2 is closest in meaning to
- A. Circle
 - B. Mark
 - C. spot
 - D. decorate
27. The phrase "sizeable amount" in line 3 is closest in meaning to which of the following?
- A. Large reduction
 - B. Diminishing supply
 - C. Substantial volume
 - D. Breathable portion
28. According to the passage, what represents the greatest danger to tree populations?
- A. Disease-causing fungi
 - B. Fire
 - C. Energy supplies
 - D. people
29. The word "face" in line 7 is closest in meaning to which of the following?
- A. Express
 - B. Survive
 - C. Confront
 - D. Cause
30. The list in lines 7 - 8 (from "lightning" to "disasters") is intended to illustrate which of the following?
- A. One kind of environmental threat
 - B. The greatest dangers that trees face
 - C. Forces which improve the growth of forests
 - D. Mankind's effect on tree populations
31. According to the passage, rainfall and temperature play a significant role in determining
- A. the amount of rainfall a plant can survive
 - B. which trees will survive in which regions

- C. the wildlife that flourishes in tropical regions
 - D. the number of natural disasters in an area
32. It can be inferred from the passage that trees that live only in tropical regions
- A. can survive wide ranges of temperature
 - B. are not limited by climate
 - C. are widely distributed
 - D. are not very adaptable

PASSAGE

Historically, the issue of migrant farm workers, who labor in the vast agricultural fields of Pakistan's southern areas, has been a difficult one. With no permanent home or income, these laborers often endure bad working conditions for extremely low wages, sometimes just a few rupees per day. In 1962, one of these migrant workers, a young man named Khair Muhammad, decided to do something to improve the treatment that he and others like him received. Born in 1955, Khair spent his early childhood on his family's small farm in D. G. Khan, until the economic climate of the country forced them off their land. By age 10, Khair was working alongside his parents as an agricultural laborer, living in a series of migrant worker camps. The young Khair would attend 12 different schools before finishing high school, so frequently did his family move. After a brief stint serving his country in the Navy in war with India, Khair returned briefly to agricultural work. In 1982, he quit field labor to form the National Farm Workers Association, which later became the United Farm Workers of Pakistan. His goal was to create a migrant workers' union large enough to give its members the power to demand fair wages and better working conditions from their employers. Khair grabbed the attention of the entire nation in 1994, when he led his union and its 1,200 member families on a boycott against Quetta's grape growers. His efforts paid off five years later. With 17 million Pakistani consumers refusing to buy Quetta grapes, the growers signed a collective agreement with Khair's union in 1995.

33. The passage mainly discusses
- A. events of Khair Muhammad's early childhood
 - B. the issue of migrant farm workers
 - C. working conditions of agricultural laborers

- D. Khair Muhammad's life and accomplishments
34. The word "one" in line 2 refers to
- A. a farm worker
 - B. the village of the South
 - C. a permanent income
 - D. An issue
35. The word "climate" in line 6 is closest in meaning to which of the following?
- A. Weather
 - B. Conditions
 - C. Improvement
 - D. Changes
36. It can be inferred from the passage that the Khair's family lost their farm
- A. sometime during the mid-thirties.
 - B. before the war between Pakistan and India.
 - C. when Khair was in his teens.
 - D. because of economic improvements.
37. The word "stint" in line 9 is closest in meaning to which of the following?
- A. Crisis
 - B. Year
 - C. Failure
 - D. Period
38. According to the passage, Khair's boycott of the Quetta grape industry
- A. resulted in payments to union members
 - B. can be considered successful
 - C. resulted in improvements in growing techniques
 - D. resulted in the creation of the United Farm Workers of Pakistan
39. The expression "paid off" in line 15 is closest in meaning to
- A. were successful
 - B. produced money
 - C. created attention
 - D. were resolved
40. It can be inferred from the passage that a boycott may involve
- A. refusal to purchase a particular product
 - B. payment to agricultural unions
 - C. agreeing to collect union dues
 - D. the attendance of member families

QUANTITATIVE REASONING

Problem Solving

Directions: The following problems are to be solved using any available space on the page for scratch work. When the problem has been worked out, mark your answer on the answer sheet by filling the corresponding circle.

Note:

The figures accompanying the problem are not drawn according to scale and lie in the plane unless otherwise stated in the specific problem. All numbers used are real numbers.

41. If n red ballpoints cost Rs. 10 each and m blue ballpoints cost Rs. 9 each, what is the average (arithmetic mean) cost, in Rupees, per ballpoint?
- A. $19(n+m)/2$
B. $10n+9m/19$
C. $(10n+9m)/(n+m)$
D. $(n+m)/2$
E. $19/(n+m)$
42. The ratio of two numbers is 10 and their difference is 18. What is the value of the smaller number?
- A. 2
B. 5
C. 10
D. 21
E. 27
43. Mercedes uses 80 gallons of fuel to travel 320 miles. At this rate, how many gallons of fuel are needed for a 700 mile trip?
- A. 150
B. 155
C. 160
D. 170
E. 175
44. In National 100 meter competition Manju takes 30 steps in 9 seconds, how many steps does she take in 54 seconds?
- A. 130
B. 170
C. 173
D. 180
E. 200
45. 25% of 25% of 100 is :
- A. 0.125
B. 0.25
C. 2.5
D. 5
E. 6.25
46. If $\frac{3}{x+3} = \frac{2}{x}$ what is the value of x ?
- A. 3
B. 2
C. 4
D. 1
E. 6
47. If k and p are odd numbers which of the following numbers is even?
- A. kp
B. $kp+2$
C. $2k+p-2$
D. $K+p+1$
E. $K+p$
48. If $\frac{a^2-b^2}{(a-b)^2} = 2$ and $a = 3$, then $b =$
- A. 2
B. 6
C. 0
D. 1
E. 4
49. A seller realizes the cost price of 150 articles by selling 120 articles. What is the gain or loss percent?
- A. 20% gain
B. 10% loss
C. 25% gain
D. 20% loss
E. None of these
50. If 7 and 9 are the remainders when 98 and 165 respectively, are divided by a positive integer a , then $a =$
- A. 7
B. 12
C. 11
D. 13
E. 15
51. Naghmana has 4 shirts of red, blue, green, and brown colors. She also has 3 trousers of black, brown, and white colors. How many different shirt trouser combinations can she wear, if she has decided to wear the white trouser?
- A. 4
B. 6
C. 8
D. 12
E. 24
52. What is the value of the function $k(x) = x^2 - 2$ when $x = 7$?
- A. 5
B. 9
C. 45
D. 47
E. 51
53. Of the following, which value of x produces the greatest value of $f(x)$?
- A. -2
B. -1
C. 1
D. 2
E. 3

54. Each man contributed dollars equal to the number of women and each woman contributed dollars equal to the number of men in a group of 120 people, the total amount collected was Rs. 7200. How many men were there in the group?
- A. 72 B. 60
C. 40 D. 80
E. None of these
55. If Dabeer is $\frac{1}{3}$ rd the age of his father Agha Jameel now, and was $\frac{1}{4}$ th the age of his father 5 years ago, how old will his father Agha Jameel be 5 years from now?
- A. 20 B. 45
C. 40 D. 50
E. 15
56. Two spinning machines A and B can together produce 300,000 meters of cloth in 10 hours. If machine B alone can produce the same amount of cloth in 15 hours, how much cloth can machine A produce alone in 10 hours?
- A. 200,000 meters B. 100,000 meters
C. 150,000 meters D. 50,000 meters
E. 250,000 meters
57. The ratio of illiterate male to illiterate female persons in Ghotkee is 5:3. If 60% of the illiterate males have enrolled for a Govt sponsored literacy campaign, what is the greatest possible proportion of propels enrolled from among the total illiterate population in Ghotkee?
- A. $\frac{5}{8}$ B. $\frac{3}{8}$
C. $\frac{3}{5}$ D. $\frac{2}{5}$
E. $\frac{3}{4}$
58. In his wardrobe, Tahir has 3 trousers. One of them is black, the second blue, and the third brown. In his wardrobe, he also has 4 shirts. One of them is black and other 3 are white. He opens his wardrobe in the dark and picks out one shirt - trouser pair, without examining the color. What is the likelihood that neither the shirt nor the trouser is black?
- A. $\frac{1}{12}$ B. $\frac{1}{6}$
C. $\frac{1}{4}$ D. $\frac{1}{3}$
E. $\frac{1}{2}$
59. Value of T is given by $T = K \sqrt{\frac{l}{g}}$. If k and g remain unchanged, what should be the parentage change in l such that T increase by 10%?
- A. 10% increase B. 10% decrease
C. 20% increase D. 21% increase
E. 20% decrease
60. Two trains start simultaneously towards each other from two points A and B separated by a distance of 1200 miles. Train leaving A moves at an average speed of 80 miles per hour while train leaving B moves at an average speed of 120 miles per hour. After how much time will both trains meet and what distance would be covered by the train leaving A by then?
- A. 15 hours, 1200 miles
B. 10 hours, 800 miles
C. 6 hours, 480 miles
D. 12 hours, 960 miles
E. 6 hours, 1000 miles
61. 15 Java programmers, working in a constant pace, finish a web page in 3 days. If after one day, 9 programmers quit, how many more days are needed to finish the remainder of the job?
- A. 5 B. 2
C. 8 D. 4
E. 6
62. Two carpenters, working in the same pace, can build 2 desks in two hours and a half. How many desks can 4 carpenters build in 4 hours?
- A. 2.4 B. 3.6
C. 4.2 D. 5.5
E. 6.4
63. There are 40 students in a classroom, $\frac{9}{20}$ of them are boys and $\frac{4}{5}$ of them are right-handed. How many right-handed boys are there in the classroom?
- A. Between 10 and 32.
B. Between 14 and 32.
C. Between 10 and 18.
D. Between 14 and 18.
E. Between 18 and 36.
64. In Jahangir's pen there are 300 sheep's. $\frac{5}{6}$ of the sheep's are white, $\frac{2}{3}$ of the sheep's have

soft wool. What can't be the number of white sheep's that also have soft wool in the pen?

- A. 100 B. 200
C. 190 D. 180
E. 160

65. Ross has 40 shirts, $\frac{3}{4}$ of the shirts are green and $\frac{1}{10}$ is without buttons.

Therefore Ross has between ___ and ___ shirts with buttons that are not green.

- A. 6 ; 10 B. 4 ; 25
C. 4 ; 10 D. 5 ; 25
E. 3 ; 10

66. In the Kan film festival, 50 movies were presented. $\frac{3}{5}$ of the movies are action movies and $\frac{4}{5}$ is science fiction movies. How many of the movies were science fiction action movies?

- A. 10 B. 15
C. 20 D. 30
E. 35

67. There are 200 cats in Cat-City. Out of the 200, 70 are street cats and the rest are domestic cats. 110 cats are gray, 30 out of the gray cats are domestic ones. How many domestic cats are there which are not gray in Cat-City?

- A. 90 B. 80
C. 50 D. 40
E. 25

68. Chandler is building a fence in the following method: He grounds 10 poles, each 10 Cm thick, in 1 meter spaces from each other. He then connects the poles with a barbed wire. What is the total length of the fence?

- A. 11 B. 12
C. 9.9 D. 10
E. 13

69. In a psychology school the grade of the students is determined by the following method: At the end of the first year the grade equals to twice the age of the student. From then on, the grade is determined by twice the age of the student plus half of his grade from the previous year. If Joey's grade at the end of the first year is 40, what will be his grade at the end of the third year?

- A. 75 B. 62

- C. 80 D. 44
E. 56

70. What is the sum of all the even numbers bigger than (-10) and smaller than 12?

- A. 2 B. 10
C. 0 D. 8
E. 4

ANALYTICAL REASONING

LOGICAL REASONING

Directions: Each question or group of question is based on a passage, graph, table, or set of conditions. In answering some of the questions, it may be useful to draw a rough diagram. For each question, select the best answer choice given.

71. The petrochemical industry claims that chemical waste dumps pose no threat to people living near them. If this is true, then why do they locate the plants in sparsely populated regions? By not locating the chemical dumps in densely populated areas the petrochemical industry tacitly admits that these chemicals are potentially dangerous to the people living nearby.

Which of the following, if true, would most weaken the author's argument?

- A. Funding through the environmental Super Fund to clean up poorly run waste dumps is reserved for rural areas only.
B. Until chemical dumps are proven 100% safe, it would be imprudent to locate them were they could potentially do the most harm.
C. Locating the dumps in sparsely populated areas is less expensive and involves less government red tape.
D. The potential for chemicals to leach into the water table has in the past been underestimated.
E. People in cities are more likely to sue the industry if their health is harmed by the dumps.

72. Plants that exhibit certain leaf diseases tend to measure extremely high in the amount of zinc

in their leaf and stem tissue. Botanists have discovered that phosphorus of the type typically used in a phosphorus-high fertilizer reacts with the zinc in such a way as to prevent treated plants from exhibiting the leaf diseases. Thus, plants can be cured from these leaf diseases by the use of a fertilizer high in phosphorus. The passage's conclusion is based upon which one of the following premises?

- A. Plants with certain leaf diseases contain the same high level of zinc in their leaf and stem tissue.
 - B. Zinc is the cause and not merely an effect of the leaf diseases.
 - C. Treating the plants with a fertilizer high in phosphorus will have no negative effect on the plants.
 - D. The amount of phosphorus-high fertilizer which should be used depends upon the size and location of the plants.
 - E. Normal plant tissue does not contain zinc.
73. To be accepted as a member at the Brown Country Club, one must have a net worth of over ten million dollars and must not have any connections to the entertainment industry. Robert Chase, the publishing magnate, has a net worth of 5 billion dollars and has been accepted as a member at the Brown Country Club. Given the statements above, which one of the following conclusions must be true?
- A. Chase's membership was preapproved.
 - B. Chase does not know anyone who has connections to the entertainment industry.
 - C. Chase's ex-business partner is a major concert promoter, has a net worth of 100 million dollars, and is a member of the Brown Country Club.
 - D. Chase's brother, who has also petitioned for membership at Brown, has a net worth of 10 billion dollars and considers it beneath his dignity to associate with anyone in the

entertainment industry. Hence, his petition will be accepted.

- E. Chase has not financed any Hollywood movies.
74. Pharmacists recently conducted a study with respect to the reasons their customers purchased eye drops to soothe eye dryness. Dry eyes were more frequently experienced by customers who wore contact lenses than by customers who did not wear contact lenses. The pharmacists concluded that wearing contact lenses, by itself, can cause contact wearers to have dry eyes. Which one of the following statements, if true, most seriously undermines the pharmacists' conclusion?
- A. An inherited condition can cause both weak eyesight and dry eyes.
 - B. Physical exertion causes dry eyes in many people who wear contact lenses.
 - C. Most people who have dry eyes do not wear contact lenses.
 - D. Most people who wear contact lenses do not have dry eyes.
 - E. Both weak vision and dry eyes cause headaches.
75. Kirkland's theory of corporate structure can be represented by a truncated pyramid. There are workers, middle management, and executive management, but no head of the corporation. Instead, all major decisions are made by committee. As a consequence, in Kirkland's structure, risky, cutting-edge technologies cannot be developed. Which one of the following is an assumption on which the argument depends?
- A. Cutting-edge technologies are typically developed by entrepreneurs, not by big corporations.
 - B. Only single individuals will make risky decisions.
 - C. An individual is more likely to take a gamble on his own than in a group.
 - D. All heads of corporations reached their positions by taking risks.
 - E. All cutting-edge technologies involve some risk.
76. Some people believe that witnessing violence in movies will discharge aggressive energy. Does

watching someone else eat fill one's own stomach? In which one of the following does the reasoning most closely parallel that employed in the passage?

- A. Some people think appropriating supplies at work for their own personal use is morally wrong. Isn't shoplifting morally wrong?
 - B. Some people think nationalism is defensible. Hasn't nationalism been the excuse for committing abominable crimes?
 - C. Some people think that boxing is fixed just because wrestling usually is. Are the two sports managed by the same sort of people?
 - D. Some people think that economists can control inflation. Can meteorologists make the sun shine?
 - E. Some people think workaholics are compensating for a lack of interpersonal skills. However, aren't most doctors workaholics?
77. Women are equals to men in every activity, including badminton. It's true that Khalid beat Saira, but he played like a woman and she played like a man.

The main problem with this argument is

- A. It is a biased toward feminism
 - B. It assumes that Saira is the best woman badminton player
 - C. It confuses people with playing styles
 - D. It assumes that all women ought to play the same way
 - E. It assumes that women are equal to men, and thus constitutes circular reasoning
78. Many more people in Pakistan who eat betel nut from local shops develop lung cancer than do those who don't eat betel nut.

In face of this evidence, how could a betel nut broker argue against the conclusion that betel nut cause lung cancer?

- A. He could argue that many things might cause lung cancer.
- B. He could argue that a single cause may be responsible both for the eating betel nut and for the cancer.
- C. He could argue that people have the right to endanger themselves if they so choose.

- D. He could argue that people who breathe die, yet no one accuses breathing of causing death.
- E. He could argue that people will eat bête nut anyhow, regardless of the evidence.

79. Leave behind the emotional aspects of civilization and come back with us to the real Pakistan: Still the land of nightingale, the horse, buffalo and Jasmine; still spacious sprawling, majestic. Experience the freedom and serenity still to be found in

For this question, choose the completion that best fits the passage.

- A. The natural wonders of our land
 - B. Our amazing urban centers
 - C. The wild jungles of Sindh
 - D. One's own subconscious
 - E. The sprawling cities of the great central Punjab
80. Student Leader: If elected, I will try my best to effect those changes which I have been fighting for over the weeks. Together we can avoid bureaucratic scenario in the campus which have existed ever since my opponent took office. You all know what I stand for, and I call upon my honorable opponent to

For this question, choose the completion that seems most appropriate for this passage.

- A. Resign graciously
- B. Make his position as clear
- C. Stop lying to the public
- D. Get our campus more financial aid
- E. Join you in supporting me

ANALYTICAL REASONING

Direction: The following questions or groups of questions are based on a passage or set of statements. Choose the best answer for each question and blacken the corresponding space on your answer sheet. It may be helpful to draw round diagrams or simple charts when you attempt to answer these types of questions.

For Question 81- 84

A five-member research group is chosen from engineers I, J, K and L and chemists M, N, O and P.

At least three engineers must be in the research group. However,

- I refuses to work with L
- J refuses to work with M
- N refuses to work with O
- L refuses to work with N

81. If J is chosen, who else would have to be in the group?

- A. N
- C. I
- E. L

82. If O is rejected, which other member could not work with the group?

- A. I B. J
- C. K D. N
- E. L

83. If J and K are chosen, which is necessarily true?

- I. I is chosen
- II. L is chosen
- III. Either N or O is chosen
- A. I only B. II only
- C. III only D. II and III only
- E. Neither I, II or III

84. If P is chosen, which must be true?

- I. I must be chosen
- II. J must be chosen
- III. O must be chosen
- A. I only B. II only
- C. III only D. I and III only
- E. Neither I, II or III

For Question 85 - 88

1. L is older than M and taller than N.
2. O is younger than P older than N, and shorter than Q.
3. R is older than S, younger than N, shorter than S, and taller than Q.
4. S is older than L and shorter than N

85. Which of the following is the youngest?

- A. L B. M
- C. N D. O
- E. P

86. Which of the following is the tallest?

- A. L B. S

- C. Q D. O
- E. N

87. Which of the following is true?

- A. L is the second oldest and is the third tallest
- B. N is younger than O and taller than S
- C. O is the oldest and shortest
- D. R is older than P and shorter than L
- E. S is older than M and taller than L

88. Which statement about the group L, M, N, O, P, Q, R and S is necessarily false?

- A. O is the shortest of the group
- B. N is the second tallest of the group
- C. O is the second oldest of the group
- D. L is the tallest of the group
- E. Q is the third oldest of the group

For Question 89 - 91

1. A arts of student of NUML must take four subjects.
2. The subjects he may choose from are French, Islamiyat, Logic, Civic, Poetry, Law
3. The student must take either Civic or Poetry, but not both.
4. The student cannot take Logic and Law together.

89. If a student takes Civic, which other course(s) must he take?

- I. Law
- II. History
- III. Logic
- A. I only B. II only
- C. III only D. I and II only
- E. II and III only

90. How many different combinations of courses are available for the student to choose from?

- A. 2 B. 3
- C. 4 D. 5
- E. More than 5

91. Which course(s) must a student take?

- I. French
- II. Islamiyat
- III. Logic
- A. I only B. II only
- C. III only D. I and II only
- E. I, II, and III

For Question 92 – 95

Six racers—R, S, T, U, V, W—compete in a race. There are not ties. The outcomes are as follows:

1. S does not win
2. Only two racers separate V and U
3. R is behind U and V
4. S is ahead of V, with one racer intervening
5. W is ahead of U

92. Who is fifth?

- | | |
|------|------|
| A. R | B. S |
| C. T | D. U |
| E. V | |

93. How many racers separate R and W?

- | | |
|--|------|
| A. 1 | B. 2 |
| C. 3 | D. 4 |
| E. Not determinable from the information given | |

94. The racers between T and V is

- | | |
|---------|------|
| A. None | B. W |
| C. U | D. S |
| E. R | |

95. If, at the end of the race, Racer U is disqualified by the judges, then Racer S finishes in which place?

- | | |
|------|------|
| A. 1 | B. 2 |
| C. 3 | D. 4 |
| E. 5 | |

For question 96 – 100

There are six floors in a building. No two people can be on the same floor.

- I. L is living two floors below N
- II. M is living a floor next to O
- III. Only one floor is vacant

96. If L is on the first floor, which of the following is true?

- A. M is on the second floor
- B. N is on the fourth floor
- C. A person, P, could be on the third floor
- D. O is on a higher floor than N
- E. A person, P, could be on the fifth floor

97. If P was on the third floor, and M was on a higher floor than P, which floor must be vacant?

- | | |
|------------|------------|
| A. Floor 1 | B. Floor 2 |
| C. Floor 3 | D. Floor 4 |
| E. Floor 5 | F. Floor 6 |

98. If M on floor 1, which floor could L be on?

- | | |
|-----------------|-----------------|
| A. 2 and 3 only | B. 3 and 5 only |
| C. 3 and 4 only | D. 4 and 5 only |
| E. 2 and 4 only | |

99. If there were two floors between the floor L was living and the floor M was living, and L was on a higher floor than O, L must be on floor

- | | |
|------|------|
| A. 2 | B. 3 |
| C. 4 | D. 5 |
| E. 6 | |

100. Which of the following is false?

- I. M and O can be both on odd-numbered floor in one configuration
- II. In a particular configuration, L and N must either both be on odd-numbered floors or both on even-numbered floors.

III. A person, P, can be on a step next to the vacant step

- | | |
|-------------------|------------------|
| A. I only | B. III only |
| C. I and III only | D. I and II only |
| E. I, II and III | |

ANSWERS AND EXPLANATIONS OF DIAGNOSTIC TEST

Verbal Ability

1.	C
2.	A
3.	A
4.	D
5.	B
6.	E
7.	D
8.	E

9.	B
10.	A
11.	D
12.	B
13.	A
14.	B
15.	A
16.	B

17.	A
18.	E
19.	B
20.	A
21.	D
22.	E
23.	C
24.	C

25.	C
26.	C
27.	C
28.	D
29.	C
30.	A
31.	B
32.	D

33.	D
34.	D
35.	B
36.	A
37.	D
38.	B
39.	A
40.	A

Quantitative Ability

41.	C
42.	A
43.	E
44.	D
45.	E
46.	E

47.	E
48.	D
49.	C
50.	D
51.	A
52.	D

53.	E
54.	B
55.	D
56.	B
57.	E
58.	E

59.	D
60.	C
61.	A
62.	E
63.	C
64.	A

65.	A
66.	C
67.	C
68.	D
69.	A
70.	B

Analytical Ability

71.	C
72.	B
73.	E
74.	A
75.	B
76.	D

77.	C
78.	B
79.	A
80.	B
81.	D
82.	E

83.	C
84.	B
85.	B
86.	A
87.	B
88.	E

89.	B
90.	C
91.	D
92.	E
93.	D
94.	A

95.	B
96.	D
97.	A
98.	C
99.	C
100.	C

EXPLANATIONS

Verbal Reasoning:

1.	C	The correct prefix for finished is un. Unfinished means the work which has not been completed.
2.	A	The prefix Pre means before. Pre-war means before the war.
3.	A	The function of throat is to swallow and the function of teeth is to chew.
4.	D	Relationship of degree.
5.	B	Cotton is naturally soft and Iron is naturally hard.
6.	E	You may not recognize GRATUITOUS in isolation, but you probably understand it in the phrase: "Gratuitous bribery and violence." GRATUITOUS means "freely given, uncalled for." The opposite is BEFITTING. The answer is (E).
7.	D	Think of the phrase: "Fallow youth." FALLOW means idle. The opposite is PRODUCTIVE. The answer is (D).
8.	E	Think of the phrase: "To test your mettle." (The large waves tested the surfer's mettle.) METTLE means "character, courage." The opposite is TREPIDATION, which means fear. The answer is (E).
9.	B	with its. Has is not correct because the clause between commas is a dependent clause and simply provides additional information. (The sentence, "The rain forest is home to unique flora and fauna" could stand alone, and the information about trees is not necessary to the meaning of the sentence.) Because is a conjugated verb and the sentence isn't setting up a parallel structure sequence, a conjugated verb such as <i>has</i> makes no sense in the dependent clause. The answer and is not possible because it would make a plural subject, and the relative clause contained within the commas would be incomplete. The answer although has is incorrect because although would need to be followed by a subject and a verb, such as "although it has." Although also wouldn't make sense in the context of the sentence; the fact that the rain forest has large trees is a reason that it provides protection.
10.	A	it is capable. The first clause is dependent because of the word Despite. Therefore, the second clause must be independent. There must be a subject and a verb. In this case, the subject is it, which is why the second answer choice is incorrect. Distracters appear in the other answer choices. Both able (adjective) and ability (noun) require to, not of, when followed by a preposition.
11.	D	working an. The verb is or was needs to appear between working and an. The sentence is compound. Both parts of the sentence are clauses, which means that they both must have a subject and a verb. In the first part of the sentence, having multiple sclerosis is the subject and has diminished is the verb. In the second part of the sentence, the subject is his ability, which is modified by the complements beginning with infinitives (to maintain a positive attitude and continue working). The conjugated verb is or was is required to complete the subject/verb structure.
12.	B	The sentence requires a conjugated verb. The subject is The huge increase in popularity of specialty coffees. Therefore, it must be followed by the verb has contributed.
13.	A	The verb is past perfect (<i>had</i> + verb in past participle), so the answer must be concluded.
14.	B	After the modal must, the simple form of the verb is required, so pay is correct. The word awarded is correct because it's the result of a reduced adverb clause, when he or she has been awarded.
15.	A	The verb structure is fighting is required because the verb <i>be</i> is followed by a verb+ing in an active sentence.
16.	B	The order of a sentence is usually subject, verb, complement, modifier. The complement is a meeting, so the modifier must come after the complement — a meeting tomorrow.
17.	A	The sentence is obviously a passive voice concept. The man didn't transport somebody else to the hospital; somebody transported him. Therefore, the structure must be had been transported. The sentence is also conditional, so the conjugated verb appears in the if clause and the modal structure appears in the other clause.

18.	E	The correct pronoun in this case is who, the subject of betrayed.
19.	B	Choice B is correct because it is both concise and clear. The other choices are ambiguous or unnecessarily change the past tense of the original to the present tense. Choice D is a less direct, more wordy way to express what choice B does more concisely.
20.	A	The original is more correct, clear, and logical than any of the other choices.
21.	D	Choice D supplies the correct verb form had witnessed called for by the original sentence.
22.	E	The original suggests that she failed the fifth grade possibly because of her father's shaking. B is clearer in this respect but repetitious with its use of both recounting and recounted. Choice E is the clearest and most economical of the choices. The fact that such an experience would be painful is obvious, and since the experience happened in the fifth grade, it is clearly a childhood experience. The sentence is not harmed by the lack of these details.
23.	C	Granting the returned money during June is repetitious, and of the choices offered, C is the clearest and most economical expression.
24.	C	With the semicolon, the second part of the original sentence is a fragment; so are choices B, D, and E.
25.	C	Dangers facing the Earth's trees
26.	C	spot
27.	C	Substantial volume
28.	D	People
29.	C	Confront
30.	A	One kind of environmental threat
31.	B	which trees will survive in which regions
32.	D	are not very adaptable
33.	D	Khair Muhammad's life and accomplishments
34.	D	a plight
35.	B	Conditions
36.	A	sometime during the mid-thirties.
37.	D	Period
38.	B	can be considered successful
39.	A	were successful
40.	A	refusal to purchase a particular product

Quantitative Reasoning:

41.	C	<p>Cost for red ballpoints = $10n$ Cost for blue ballpoints = $9m$ Total cost of all ballpoints = $10n + 9m$ Total number of ballpoints = $n + m$ Average cost per ballpoint = $(10n + 9m) / (n + m)$</p>
42.	A	<p>Let x and y denote the numbers. Then $\frac{x}{y} = 10$ and $x - y = 18$. Solving the first equation for x and plugging it into the second equation yields</p> <p>$10y - y = 18$ $9y = 18$ $y = 2$</p> <p>Plugging this into the equation $x - y = 18$ yields $x = 20$. Hence, y is the smaller number.</p>

43.	E	This is a direct proportion: as the distance increases, the gallons of fuel consumed also increases. Setting ratios equal yields $\frac{80 \text{ gal}}{320 \text{ mi}} = \frac{x \text{ gal}}{700 \text{ mi}}$ $\frac{700-80}{320} = x$ $175 = x$
44.	D	This is a direct proportion: as the time increases so does the number of steps that the sprinter takes. Setting ratios equal yields $\frac{30}{9} = \frac{x}{54}$, $\frac{30 \cdot 54}{9} = x$, $180 = x$
45.	E	25% of 100 is 25. 25% of 25 is 6.25.
46.	E	Since $\frac{3}{x+3} = \frac{2}{x}$, $3x = 2(x+3)$. i.e. $3x - 2x = x = 6$.
47.	E	Sum of two odd numbers is even and sum of an odd and an even number is odd. Further, product of two odd numbers is odd and product of an odd and an even number is even. So, we can see that (A), (B), (C), and (D) are all incorrect since all of them are odd numbers.
48.	D	Since $a^2 - b^2 = (a-b)(a+b)$, we can cancel out (a-b) which is the common factor in the numerator and denominator and we get $(a+b)(a-b) = 2$. ON further simplification, we get $a = 3b$. Since $a = 3$, $b = a/3 = 1$.
49.	C	$120 \text{ SP} = 150 \text{ CP}$ Profit = 30 SP Profit % = $30/120 = \frac{1}{4} = 25\%$
50.	D	Factorize the resulting 91 and 156 and the factor that is common to both is the right answer. The factors of 91 are 1, 7, 13 and 91. Therefore, from among the alternatives given, we will need to examine only 7 and 13. 7 is not a factor of 156 and 13 is a factor of 156.
51.	A	Since she has decided to wear white trouser, she only has options on the color of her shirt. Here, she has 4 choices.
52.	D	$7^2 - 2 = 47$.
53.	E	By substituting values, we can see that 3 produce the greatest value of $f(x)$.
54.	B	Let the number of men be n . Then the number of women will be $120 - n$. Money contributed by men = $n(120 - n)$ Money contributed by women = $(120 - n)n$ Thus total money = $n(120 - n) + (120 - n)n = 7200$ Thus $n(120 - n) = 3600$ i.e. $n^2 - 120n + 3600 = 0$ $(n - 60)^2 = 0$ and hence $n = 60$
55.	D	Since Dabeer is $\frac{1}{3}$ rd the age of Agha Jameel now, let their ages be x and $3x$ respectively. Agha Jameel was four times as old as Dabeer five years ago. So, $(3x - 5) = 4(x - 5)$. Which means the current ages of Dabeer (x) and Agha Jameel ($3x$) are 15 years and 45 years respectively. Since we need the age of Agha Jameel 5 years from now.
56.	B	Since machine B alone can produce 3000,000 meters in 15 hours and A and B together can produce 300,000 meters in 10 hours, we can get the time machine A takes to produce 300,000 meters of cloth using ht relation: $\frac{1}{a} + \frac{1}{15} = \frac{1}{10}$. Therefore, $\frac{1}{a} = \frac{1}{30}$ i.e. machine A takes 30 hours to produce 3000,000 meters of cloth alone. Thus, machine A can produce $\frac{1}{3}$ rd this amount in 10 hours.
57.	E	Since the ratio of male illiterates of female illiterates is 5:3, let $8x$ be the total illiterate population of which $5x$ are male and $3x$ are female. It is given that 60% of male illiterates have enrolled which means

		t ha only 3x male illiterates have enrolled. So, greatest proportion of enrollment will be $(3x + 3x) / 8x$ which is possible when all the 3x female illiterates enroll of the program.
58.	E	The likelihood of a trouser not being black is $2/3$. For a shirt to not be black, the likelihood is $3/4$. Hence, for neither of them to be black, the likelihood is $2/3 \times 3/4 = 1/2$.
59.	D	$\frac{110}{100} \times T = k \sqrt{\frac{l'}{g}} \quad \text{But } T = k \sqrt{\frac{l}{g}}$ <p>By dividing the first equation by the second, we get:</p> $= \sqrt{\frac{l'}{l}}$ $\rightarrow \frac{l'}{l} = 1.1 \times 1.1 = 1.21. \text{ This means that there is a 21\% increase in } \ell.$
60.	C	Since both the trains are moving in opposite directions, the effective speed of approach till the time they meet is 200 miles per hour (80 mph + 120 mph). At this rate, the two trains will take $1200/200 = 6$ hours to meet each other. The distance covered by train leaving A during this time is equal to $6 \times 80 = 480$ miles.
61.	A	The total working days for finishing a web page are $(15 \times 3) = 45$. If after one day 9 programmers quit, only 15 working days are done and the rest of the programmers (6). Need to finish $(45 - 15) = 30$ days of work. It will take them 5 more days.
62.	E	2 carpenters build 2 desks in 2.5 hours \rightarrow 4 carpenters build 4 desks in 2.5 hours \rightarrow In 4 hours there are $(4/2.5 = 1.6)$ time units. And (4×1.6) is 6.4 desks.
63.	C	There are $(9/20 \times 40 = 18)$ boys in the class. 80% of them are right-handed, meaning that $(4/5 \times 18 = 14.4)$. Answer C is the best answer.
64.	A	There are $(5/6 \times 300 = 250)$ white sheep's. There are $(2/3 \times 300 = 200)$ soft woolen sheep's. The maximum overlap is the size of the smallest among the groups, thus 200. The minimum overlap is $(250 + 200 - 300 = 150)$. Therefore the number of sheep's can be somewhere between 150 and 200.
65.	A	Notice that the groups that we are looking for a overlapping are the not-green shirts and the buttoned ones. The not-green shirts are a quarter of 40, 10 shirts. The shirts with buttons are $(9/10 \times 40 = 36)$. The maximum overlapping is the size of the smallest group: 10. The minimum overlapping is: $36 + 10 - 40 = 6$.
66.	C	There were $(3/5 \times 50 = 30)$ action movies. There were $(4/5 \times 50 = 40)$ science fiction movies. Exact overlapping is calculated by minimum overlapping method. Therefore there are $(40 + 30 - 50 = 20)$ movies that belong to both categories.
67.	C	Out of 200 cats, 130 are domestic ones. Out of 110 gray cats, 30 are street cats therefore 80 are grey and domestic ones. Altogether there are 130 domestic cats, 80 are grey so $(130 - 80) = 50$ are not grey.
68.	D	The total width of the poles is $(10 \times 0.1 = 1)$ meter. There are 9 spaces between the poles, each 1 meter, so it's another 9 meters. The total length is $(1 + 9 = 10)$ meters.
69.	A	From the grade 40 at the end of the first year we learn that his age is 20. At the end of the second year, he will be 21 and his grade will be $(21 \times 2 + \frac{1}{2} \times 40 = 62)$. At the end of the third year, he will be 22 and his grade will be $(22 \times 2 + \frac{1}{2} \times 62 = 75)$.
70.	B	This is a series of numbers with a constant spacing between them. The first number is (-8) and the last is (10), there are 10 numbers altogether. The formula for such a series is: $((-8 + 10) \times 10)/2 = 10$.

The second way to answer such a question is to write the numbers and add them.

Analytical Reasoning:

71.	C	The suppressed <i>false</i> premise of the argument is that all things being equal there is no reason to prefer locating the sites in sparsely populated areas. To weaken the argument, we need to show it is not true that all things are equal. In other words, there are advantages other than safety in locating the sites in sparsely populated areas. Choice (C) gives two possible advantages—cost and ease. Hence (C) is the answer.
72.	B	In this question, the premise has been suppressed. If the high level of zinc found in diseased plants is merely a symptom of the diseases, and zinc does not actually cause the diseases, then the fact that a fertilizer high in phosphorus causes plants not to exhibit the diseases, is irrelevant. So the question is based upon the assumption set forth in choice (B). The answer is (B).
73.	E	The argument states that two criteria must be met before the Brown Country Club will accept a person: I. He or she must have a net worth of over ten million dollars. II. He or she must not have any connections to the entertainment industry. Since the Chase was accepted as a member, he must not have any connections to the entertainment industry and therefore could not have financed a Hollywood movie. The answer is (E).
74.	A	This argument does not consider that an outside factor may cause some people to have both poor vision and dry eyes. Selection (A) provides an outside factor for both conditions. It is the correct answer. Selection (D) is tempting, but don't be misled. Even if most people who wear contact lenses do not have dry eyes, this does not weaken the argument because it is based on the incidence of dry eyes between people who wear contact lenses and those who do not. Secondly, the author does not argue that wearing contact lenses <i>must</i> cause dry eyes, only that it <i>can</i> cause dry eyes.
75.	B	The link that allows the conclusion to be drawn is the assumption that only individuals make risky decisions. The answer is (B). Both (A) and (C) are close second-best choices (a double-detractor pair). Both are supported by the passage, but each understates the scope of the suppressed premise. The argument states that in Kirkland's model of corporate structure cutting-edge technologies cannot be developed, not that they are less likely to be developed.
76.	D	To answer this question, we need to identify the argument's structure and the author's tone. The argument has two parts. First, a statement is made. Then it is questioned by drawing an extreme analogy. By putting the conclusion in question form, the author hopes you will be more likely to come to the same conclusion she did. It's important to note the sarcasm in the analogy. Obviously, watching someone else eat doesn't fill your own stomach. The author implies it is equally unlikely that watching violent movies will dissipate aggressive energy, or satisfy one's need for violence. In the argument, the writer throws out a statement and then ridicules it by drawing an extreme analogy. Look at choice (D). It presents a statement: "Some people think that economists can control inflation." Then ridicules it with an extreme analogy: "Can meteorologists make the sun shine?" Hence the answer is (D). (B) is somewhat tempting. It does have the same basic structure as the original argument—a statement is offered and then questioned. However, the tone in (B) is not sarcastic. Furthermore, the question "Hasn't nationalism been the excuse for committing abominable crimes?" isn't in analogy form.
77.	C	The attempt to explain away the defeat of Saira by Khalid proves, at best, that a woman's style of play is superior to that of man's, not that woman themselves are equal or superior to men in badminton. Choice A is incorrect, since the argument is not biased—even if the author is biased; this has nothing to do with the validity of the argument itself. Choice E is incorrect, since equality of the sexes is what the argument seeks to prove. The other choices are simply irrelevant.

78.	B	Even if eating betel nut is correlated with the lung cancer, if it could be established that this very correlation is caused by a single factor responsible both for the betel nut eating and for the cancer, a causal connection between eating betel nut and cancer could no longer be inferred. Choice A is not to the point, since the multiplicity of causes for cancer does not prove that eating betel nut is not of them. Choice D is incorrect since, although it establishes a correlation between breathing and dying, the lack of breathing is also correlated with dying, so that breathing cannot be singled out as a factor in causing death. Choice C and E are irrelevant to the question of causal relation between eating betel nut and lung cancer.
79.	A	The correct answer to this question is Choice A. In completing the passage we are looking for a phrase which mentions the natural beauty of Pakistan, a beauty and serenity not found in the cities or urban centers. Choice C is incorrect because it mentions the jungles of Sindh, whereas we are concerned only with life in Pakistan.
80.	B	This paragraph typifies a political speech in which the candidate-- student leader says nothing of substance, and yet manages to impress the audience. Though in actuality he has said nothing, this student leader has nevertheless challenged his opponent to take a stand on the issues and make his position as clear as the speaker's. The best completion is thus Choice B.
81-84		Three engineers from I, J, K and L must be chosen. The only combination are I J K I K L I J L J K L I J K L. Since I refuses to work with L, combinations I K L, I J L, and I J K L are ruled out. Thus the only combination with the engineer are I J K or J K L Since J refuses to work with M, and N refuses to work with O, the engineers I J K could only work with N and P or O and P. Thus possible combinations of the five-member groups are I J K N P or I J K O P Since J refuses to work with M, and L refuses to work with N, the engineers J K L could only work with O and P. Thus a possible combination of the group is J K L O P The only possible combinations are therefore I J K N P I J K O P J K L O P
81.	D	It can be seen from the three combinations I J K N P, I J K O P, and J K L O P That K appears in every possible group
82.	E	It can be seen from the three combinations I J K N P, I J K O P and J K L O P That if O is rejected, the group must be I J K N P. Thus L is not in the group
83.	C	From the set of possible combinations I J K N P, I J K O P, and J K L O P It can be seen that only statement III is necessarily true
84.	B	(B) From the set of possible combinations I J K N P, I J K O P, J K L O P Only statement II must be true
85 - 88		Let us arrange the letters in two separate categories. The first category will be for age—older and younger. The second category will be for height—taller and shorter. We represent older with the mathematical "greater than" sign >. We represent taller with a double mathematical "greater than" sign >>. From the first statement (L is older than M and taller than N), we get this representation: L > M and L >> N The second statement (O is younger than P, older than N and shorter than Q) translates mathematically as P > O > N and Q >> O The third statement (R is older than S, younger than N, shorter than S, and taller than Q) gives us N > R > S and S >> R >> Q

78.	B	Even if eating betel nut is correlated with the lung cancer, if it could be established that this very correlation is caused by a single factor responsible both for the betel nut eating and for the cancer, a causal connection between eating betel nut and cancer could no longer be inferred. Choice A is not to the point, since the multiplicity of causes for cancer does not prove that eating betel nut is not of them. Choice D is incorrect since, although it establishes a correlation between breathing and dying, the lack of breathing is also correlated with dying, so that breathing cannot be singled out as a factor in causing death. Choice C and E are irrelevant to the question of causal relation between eating betel nut and lung cancer.
79.	A	The correct answer to this question is Choice A. In completing the passage we are looking for a phrase which mentions the natural beauty of Pakistan, a beauty and serenity not found in the cities or urban centers. Choice C is incorrect because it mentions the jungles of Sindh, whereas we are concerned only with life in Pakistan.
80.	B	This paragraph typifies a political speech in which the candidate-- student leader says nothing of substance, and yet manages to impress the audience. Though in actuality he has said nothing, this student leader has nevertheless challenged his opponent to take a stand on the issues and make his position as clear as the speaker's. The best completion is thus Choice B.
81-84		Three engineers from I, J, K and L must be chosen. The only combination are IJK IKL IJL JKL IJKL. Since I refuses to work with L, combinations IKL, IJL, and IJKL are ruled out. Thus the only combination with the engineer are IJK or JKL Since J refuses to work with M, and N refuses to work with O, the engineers IJK could only work with N and P or O and P. Thus possible combinations of the five-member groups are IJKNP or IJKOP Since J refuses to work with M, and L refuses to work with N, the engineers JKL could only work with O and P. Thus a possible combination of the group is JKLOP The only possible combinations are therefore IJKNP IJKOP JKLOP
81.	D	It can be seen from the three combinations IJKNP, IJKOP, and JKLOP That K appears in every possible group
82.	E	It can be seen from the three combinations IJKNP, IJKOP and JKLOP That if O is rejected, the group must be IJKNP. Thus L is not in the group
83.	C	From the set of possible combinations IJKNP, IJKOP, and JKLOP It can be seen that only statement III is necessarily true
84.	B	(B) From the set of possible combinations IJKNP, IJKOP, JKLOP Only statement II must be true
85-88		Let us arrange the letters in two separate categories. The first category will be for age—older and younger. The second category will be for height—taller and shorter. We represent older with the mathematical "greater than" sign >. We represent taller with a double mathematical "greater than" sign >>. From the first statement (L is older than M and taller than N), we get this representation: $L > M$ and $L >> N$ The second statement (O is younger than P, older than N and shorter than Q) translates mathematically as $P > O > N$ and $Q >> O$ The third statement (R is older than S, younger than N, shorter than S, and taller than Q) gives us $N > R > S$ and $S >> R >> Q$

The fourth statement (S is older than L and shorter than N) gives us
 $S > L$ and $N >> S$

Thus consolidating, we have

$L > M$	$L >> N$
$P > O > N$	$Q >> O$
$N > R > S$	$S >> R >> Q$
$S > L$	$N >> S$

Again with the mathematical inequality sign we can further consolidate the above in two separate inequality statements:

$P > O > N > R > S > L > M$

and

$L >> N >> S >> R >> Q >> O$

Now we can proceed to answer questions 5-8 with reference to the mathematical representation above.

85. B Since $P > O > N > R > S > L > M$, M must be the youngest of the groups because it is the least of all the given letters. Accordingly Choice B is correct.

86. A $L >> N >> S >> R >> Q >> O$
 Therefore, L must be the tallest because it is the greatest of all the given letters. So Choice A is correct.

87. B From the final mathematical representation above, we can see that $O > N$ and $N >> S$, thus indicating that N is younger than O and taller than S. Therefore, Choice B is correct. The other choices can be seen to be false

88. E (Note that the correct choice must be a false choice. We see that the only choices that deal with younger-older people are Choices C and E. Choice C is a true statement, so it is incorrect. Now let us go to the shorter-taller choices—that is, Choices A, B and D. Choice A is a true statement, so it is an incorrect choice. Choice B is a true statement, so it is an incorrect choice. Choice D is a true statement, so it is an incorrect choice. As for Choice E, we cannot determine whether Q is the third oldest of the group because Q is not included in the younger-older mathematical representation. However, since the other four choices are incorrect, we can, by a process of elimination, conclude that Choice E is the only correct choice

89 - 91

The strategy here is to make a table based on the four restrictive Statements. We shall use the letter X if the student takes the course and a zero if the student does not take the course. We shall use C for Civic, L for Logic, P for Poetry, F for French, I for Islamiyat and La for Law

Possible combinations		C	L	P	F	I	La
	<u>Combination 1</u> Civic and Logic	X	X				
	<u>Combination 2</u> Civic but not Logic	X	0				
	<u>Combination 3</u> Logic but not Civic	0	X				
	<u>Combination 4</u> Neither Logic nor Civic	0	0				

Now, the restrictive Statements indicate the following:

Students cannot take Logic and Law together

Students must take either Civic or Poetry but not both

Students must take four courses

We shall now take note of the above guidelines in preparing the final Possible Combinations table:

Possible combinations	Combination 1 Civic and Logic	C	L	P	F	I	La
	Combination 2 Civic but not Logic	X	0	0	X	X	X
	Combination 3 Logic but not Civic	0	X	X	X	X	0
	Combination 4 Neither Logic nor Civic	0	0	X	X	X	X

From the above table, we see that the possible combinations are C,L,F,I or C,F,I, La or L,P,F,I or P,F,I, La

We can now proceed to answer Questions 9-11 with reference to the final Possible Combinations table.

89. B From the table above, we can see that for combination 1 and 2, "Islamiyat" is marked with an X. Therefore Choice B is correct
90. C The table describes four different combinations. Accordingly, Choice C is correct.
91. D We see from the table that "French" and "Islamiyat" are marked with an X for all combinations. Therefore Choice D is correct.

92-95 Let us endeavor to write the letters representing the racers in order of finish—first place being the first letter on the left. Let a star represent an unknown number of racers.
 For example, * S *
 Let a lower line represent one unknown racer.
 For example, ---S---
 Now let us proceed to get the correct order of finish by referring to the information listed under outcomes
 Outcome 1 tells us that S cannot be in first place.
 Therefore, * S *
 Outcome 2 says either
 U ----V or V ----U
 Outcome 3 says both
 U * R and V * R
 Outcome 4 yields
 S----V
 Now consider again outcomes 1,2,3,4 collectively and then proceed step-by-step
 Step 1 * S *
 Step 2 U ----V or V ----U
 Step 3 U ----V * R or V ----U * R
 Step 4 WUS ---- VR
 Step 5 WUSTVR which is the complete order of finish
 We can now proceed to the explanatory answers.

92. E Racer V places fifth
93. D Four racers ---- U, S, T, and V ----separate R and W
94. A No racer is between T and V. since T finishes immediately before V
95. B Since, before the disqualification of Racer U, Racer S finished in third place, Racer S is awarded a second place by the judges.

96 - 100 The following configuration are possible:

Floor 6	
Floor 5	(M) O
Floor 4	(O) M

Floor 3	N
Floor 2	
Floor 1	L

Floor 6	(M) O
Floor 5	(O) M
Floor 4	
Floor 3	N
Floor 2	
Floor 1	L

Floor 6	(M) O
Floor 5	(O) M
Floor 4	N
Floor 3	
Floor 2	L
Floor 1	

Floor 6	
Floor 5	N
Floor 4	
Floor 3	L
Floor 2	(M) O
Floor 1	(O) M

Floor 6	N
Floor 5	
Floor 4	L
Floor 3	(M) O
Floor 2	(O) M
Floor 1	

Floor 6	N
Floor 5	
Floor 4	L
Floor 3	
Floor 2	(M) O
Floor 1	(O) M

96. D By looking at configuration 1 and 2, it can be seen that only Statement D is true
97. A In the question, configuration 3 is the only appropriate configuration. In this case, we can see from this configuration that floor 1 must be vacant.
98. C We refer to configuration 4 and 6 where M can be on floor 1. It can be seen from configuration 4 that L is on floor 3, and from configuration 6 that L is on floor 4. Thus Choice C is correct.
99. C The only configuration that applies in configuration 6. Thus, L must be on floor 4
100. C Since M and O are always next to each other, Statement 1 is false. Since L is two floors below N, Statement 2 must be true. It can be seen from the configurations that statement 3 is false. Thus Choice C is correct.

Evaluation Sheet

Section Results:

Section	Total Questions	Right Answers	Percent Result $\frac{\text{Right Answers}}{\text{Total Questions}} \times 100$
Verbal Ability	40		
Quantitative Ability	30		
Analytical Ability	30		

Test Result:

Test	Total Questions	Right Answers	Percent Result
Diagnostic Test	100		