

National Power Training Institute

NPTI ADMISSION TEST -2022

for admission to Two-year MBA in Power Management course

Test Booklet Code

G-I

Important Instructions:

- 1. The test is of 1.5 hours duration.
- 2. The Test Booklet consists of 90 questions. The maximum marks are 90.
- 3. For each correct answer, 1 (one) mark will be awarded.
- 4. There is only one correct response for each question. Filling up more than one response in any question will be treated as wrong response and marks for wrong response will be deducted accordingly as per instruction 4 above.
- 5. No candidate is allowed to keep any papers, notes, books, calculators etc. While attempting the paper.

Name of the Candidate (in Capital letters): _____

Roll No.

Name of the Examination Centre:

Candidate's Signature:

Invigilator's Signature:

ROUGH WORK

- 1. The sum of three consecutive odd numbers is always divisible by: II. 3 IV. 6
 - I. 2 III. 5
- a) Only I b) Only II
- c) Only I and II d) Only II and IV
- 8.
- 2. A boy runs 200 metres in 24 seconds. What is his speed?
- a) 20 km/hr b) 24 km/hr
- c) 28.5 km/hr d) 30 km/hr
- 3. A train which is 390 m long, is running at 45 kmph. In what time will it cross a person moving at 9 kmph in same direction?
 - a) 26 sec b) 39 sec
 - c) 36 sec d) 29 sec
- 4. If m : n = 3 : 4 and n : o = 8 : 9. then m : o is =
- a) 1:3 b) 3 :2
- c) 2: 3 d) 1:2
- 5. The average of 2, 7, 6 and x is 5 and the average $\frac{1}{2}$ of 18, 1, 6, x, and y is 10. What is the value of y? 10.

b) 10 a) 5

c) 20 d) 30

- 6. Manu, Manju and Maya can do a work in 90, 30 and 45 days respectively. If they work together, in how many days will they complete work?
- a) 15 b) 10
- c) 20 d) 25
- 7. What percent is 2 minutes 24 seconds of an hour?

a) 6%	b) 2%
c) 4%	d) 8%

7. 8. The profit obtained by selling an article for Rs. 56 is the same as the loss obtained by selling it for Rs. What is the cost price of the article?

a) Rs. 40	b) Rs. 50
c) Rs. 49	d) None of these

8. 9. A sum of money becomes triple itself in 16 years. In how many years will it become 5 times at the same rate?

a) 32	b) 15
c) 27	d) 30

10. The width of a rectangular hall is $\frac{1}{2}$ of its length. If 9. the area of the hall is 450 sq.m. what is the difference between its length and width?

a) 8m b) 10m c) 12m d) 15m

11. If Atul rows 16 km up-stream and 24 km downstream taking 4 hours each, then the speed of the stream is:

- a) 1kmph b) 2 kmph
- c) 1.5 kmph d) 1.2 kmph

12. The first term of an arithmetic progression is 3 and the 10th term is 21. Find 15th and 22nd terms

- a) 21,35 b) 31,45
 - c) 30,46 d) 29,40
 - 13. A box contains 12 mangoes out of which 4 are spoilt. If four mangoes are chosen at random, find the probability that all the four mangoes are spoiled.
 - a) 1/495 b) 494/495
 - c) 1/395 d) 394/395
 - 14. A hall 36m long and 15m broad is to be paved with stones, each measuring 60 cm by 50 cm. The number of stones required is:
 - b) 1800 a) 180

- c) 18 d) 18000
- 15. The value of 40 coins of 10 p and 20 p is Rs. 5.50. The number of 20 p coins is:

a) 15	b) 25
> 20	1) 27

- c) 30 d) 35
- 16. If a and b are positive numbers, $2^a = b^3$ and $b^a = 8$, find the value of a and b.
- a) a = 2, b = 3 b) a = b = 3
- c) a = 3, b = 2 d) a = b = 2
- 17. Find out which pair of words can be filled up in the blanks in the sentence in the same sequence to make the sentence meaningfully complete.

In his speech he vowed to.....the four billion unbanked individuals across the world into the.....of financial inclusion.

- a) represent, sphere b) target, area
- c) bring, realm d) engage, achievement
- 18. Find out which part of the sentence has an error. If there is no mistake, the answer is 'No error'.

If you hate me, (a)/ then you should (b)/ leave my house. (c)/ No error (d)

19. In sentence below, group of words which are labelled (a), (b) and (c) have been printed in bold type, one of which may be either inappropriate in the context of the sentence or wrongly spelt. If all the four are appropriate and also correctly spelt, mark 'All correct' as the answer.

The old man **cut** (a)/ the huge Ashoka tree **with** (b)/ hardly **no effort** (c)/ at all. All correct (d)

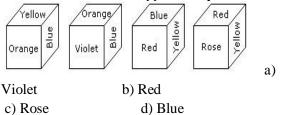
20. In the following question, a sentence has been given wherein a word/ group of words has been italicised. Some alternatives are suggested for the italicised words/ group of words which improves the sentence. In case no improvement is needed in the sentence, your answer is 'No correction required.'

My mother *is ill since* two months.

- a) has been ill since
- b) has been ailing since
- c) has been ailing for
- d) no correction required
- 21. Which of the phrases (a), (b), (c) and (d) given below should replace the phrase given in bold in the following sentence to make the sentence grammatically meaningful and correct.

The issue was **taken before** the Municipal Corporation meeting last week—

- a) Taking place at b) Taken after
- c) Being taken in d) Taken up at
- 22. From the four positions of a dice given below, find the colour which is opposite to yellow?



- 23. If 14th December 2004 is Monday, 25th November 2005 comes on which day?
 - a) Wednesday b) Tuesday
 - c) Friday d) Thursday
- 24. A is the husband of B. E is the daughter of C. A is the father of C. How is B related to E?a) Motherb) Grandmotherc) Auntd) Cousin
- 25. In a certain code language if the word 'MUSEUM' is coded as 'LSPAPG', then how will the word 'PALACE' be coded in that language?

a) OYIWXY	b) OYIXYW
c) IYXYWO	d) YXWYOI

26. What is the angle between the two hands of a clock when the time shown by the clock is 5.30 p.m.?

a) 0^0	b) 5 ⁰
c) 3^0	d) 15 ⁰

- 27. There are five friends. They are standing in a row facing South. Jayesh is to the immediate right of Alok. Pramod is between Bhagat and Subodh. Subodh is between Jayesh and Pramod. Who is at the extreme left end?
 - a) Alok b) Bhagat

c)Subodh d) Data inadequate

28. Statement:

Kumar Sanjeev Ranjan dissatisfied with present salary and perks, joins another company. Assumptions:

I. The new company gives to all their employees' good salary.

II. Present company runs in loss.

Options:

- a) If only assumption I is implied.
- b) If only assumption II is implied.
- c) If both I and II are implied.
- d) If neither I nor II is implied.
- 29. In the following question, a statement is given, followed by two conclusions. Give answer (a) if only conclusion I Follows; (b) if only conclusion II Follows; (c) if both I and II follows; (d) if neither I nor II follows.

Statement: People who speak too much against the dowry are those who had taken it themselves.

Conclusions:

I. It is easier said than done.

II. People have double standards

30. Question given below has a problem and three statements numbered I, II & III giving certain information. You have to decide if the information given in the statements is sufficient for answering the problem.

Five persons- A, B, C, D and E are sitting in a row. Who is sitting in the middle?

С I. В is between Ε and II. В E is to the right of III. D is between A and E.

a)I and II together

- b) II and III together
- c) I and III together
- d) I, II and III together
- 31. If 'W' means '÷', 'X' means '+', 'Y' means '-' and 'Z' means 'x' then 28Z3Y4X12W6=?

a) 27 b)82

- c) 39 d)53
- 32. A monkey starts climbing up a tree 20 ft. tall. Each hour, it hops 3 ft. and slips back 2 ft. How much time would it take the monkey to reach the top?

a) 20 hours	b) 21 hours
c) 18 hours	d) 17 hours

33. Statement: A shopkeeper was reported to be selling adulterated mustard oil.

Course of Action:

- I. He should be fined and his shop to be sealed.
- II. He should be asked to leave the town and open a shop elsewhere.

Options:

a) Only I follows b) Only II follows

c) Either I or II follows d) Neither I nor II follows

34. In the question below are given three statements, followed by conclusions: I, II, III, IV. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts
Statements: *Some Cats are Rats. All bats are tables. All Rats are Bats.*Conclusions:
I. Some Cats are bats II. All bats are rats III. All tables are cats IV. All bats are cats

a) Only I & II follow b) Only II follows c) Only I & IV follow d) None of these

Directions for questions 35 to 36: Read the following data and then answer the questions that follow.

In a class, there are 60 students. For every 8 students learning Judo there are 4 students who learn Karate. For every 14 students learning Judo there are 7 students who learn both Judo and Karate and 7 students learning none.

35. How many students learn only Karate?

a) 20 b) 30

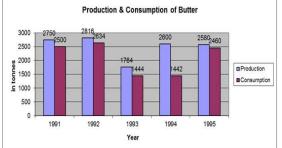
c) 0 d) 40

36. How many students learn only Judo?

a) 20	b) 40
c) 0	d) 14

Directions for questions 37 to 38: These questions are based on the following bar

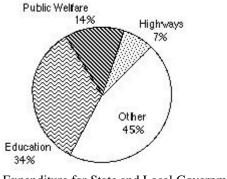




- 37. The average production for the last three years when compared with the average production for the first three years has dropped by
 a)5%
 b) 3%
 c) 9%
 d) 7%
- 38. Which of the following statement is true?

a) There is a steady increase in production from 1991 to 1995.
b) The consumption is increasing and decreasing in alternate years.
c) The steepest increase in production immediately follows the steepest falling consumption.
d) None of the above

Directions for questions 39 to 40: Based on the circle graph given below, answer the following questions.



Expenditure for State and Local Governments

39. If the total spending is ₹50,000, how much money was spent on highways?

a)₹3,500b) ₹ 22,500 c) ₹ 15,000 d) ₹ 20,000

40. Approximately how many times the amount spending on highways is spent on education?
a) 10
b) 3
c) 5
d) 15

DIRECTIONS (Qs. 41-45): Read the following information carefully to answer the questions:

The visible light spectrum consists of the following"

R-Red	G-Green	V-Violet
O-Orange	B-Blue	
Y-Yellow	I-Indigo	

Light travels through space at a speed of 299,972 km/s but through water 25% slower and through glass a 1/3 slower still. A microscope made from a single lens can magnify between 70 and 375 times while one made from two lenses can magnify up to 1,875 times. A typical pair of binoculars magnifies an object 30 times. When light is refracted by, for example, a prism or a droplet of water, the colours that make up visible light are displayed (this is called the visible light spectrum).

Decreasi	ng Waveleng	gth		
Gamma and x rays	Ultra violet radiation	Visible light VIBGYOR	Infrared light	Microwaves

41. Which is the best estimate of how far light would travel in space in 30 seconds?

a) 900,000 km

b) 3 million km

c) 9 million km

d) 90 million km

42. Which colour in the visible light spectrum has the third-longest wavelength?

a) Red or orange

- b) Yellow or green
- c) Blue or indigo
- d) Cannot tell
- 43. Which is the best estimate of how far light could travel through water in 20 seconds (assuming you could find enough water)?

a) 6,750,000 km

- b) 4,500,000 km
- c) 675,000 km
- d) 450,000 km
- 44. How large would an object that was 0.04 mm in size appear to be through a single lens microscope set at the lowest magnification in the range described?

a) 22 mm

- b) 24 mm
- c) 26 mm
- d) 28 mm
- 45. Select the closest estimate of how long it would take for an object to journey 12 million km in space if it was travelling at a fifth of the speed of light.
- a) 40 seconds
- b) 1 minute 50 seconds
- c) 3 minutes
- d) 3 minutes and 20 seconds

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- 46. If the radius of a circle is diminished by 20%, then its area is diminished bya) 28 %b) 36 %
 - c) 10 % d) 40 %
- 47. If the When the numerator and the denominator of a fraction are increased by 1 and 2 respectively, the fraction becomes 2/3 and when the numerator and the denominator of the same fraction are increased by 2 and 3 respectively, the

fraction becomes 5/7. What is the original fraction?

- a) 5/6 b) 3/4 c) 3/5 d) 6/7
- 48. A can do a piece of work in 10 days and B is 25% more efficient than A. In what time will the work be finished if A and B work together?

a)
$$4\frac{4}{9}$$
 days b) $5\frac{5}{7}$ days

c) 5 days d) $6\frac{2}{3}$ days

- 49. A salesgirl's terms were changed from a flat commission of 5% on all her sales to a fixed salary of `1000 plus 2.5% commission on all sales exceeding `4000. If her remuneration as per the new scheme was `600 more than that by the previous scheme, her total sales was

 (a) 10,000
 (b) 5000
 - c) 2000 d) 12000
- 50. The respective ratio of the present ages of a mother and daughter is 7 : 1. Four years ago the respective ratio of their ages was 19 : 1. What will be the mother's age four years from now?

a) 42	b) 38

c) 46 d) 36

DIRECTIONS (Qs. 51-55): Read the following information carefully to answer the questions:

In a store, there are 600 women. The store is a collection of precious stones namely diamond, ruby and emerald. It is found that 40% of women like diamond, 20% of women like ruby and 10% of women like emerald. 5% of women like diamond and ruby; 3% of women like ruby and emerald and 4% like emerald and diamond. 2% of women like all three stones.

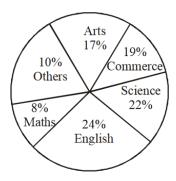
- 51. Find the number of women who like both ruby and diamond.
- (a) 30 (b) 32
- (c) 12 (d) 6
- 52. Find the number of women who like emerald only.
- (a) 32 (b) 30
- (c) 28 (d) 198
- 53. Find the number of women who like both diamond and emerald ?
- (a) 32 (b) 30

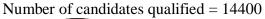
(c) 24 (d) 28

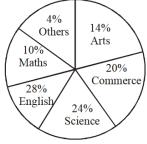
- 54. Find the number of women who like diamond only.
- (a) 60 (b) 240
- (c) 120 (d) 198
- 55. Find the number of women who like only ruby.
- (a) 60 (b) 240
- (c) 120 (d) 30

DIRECTIONS (56-60): In the following pie-charts, the percentage wise distribution of candidates who have applied for different subjects in a college and that of selected candidates has been given. Read the following pie-charts to answer the questions

Applied number of candidates = 88000







- 56. What is the difference between the total number of candidates who got selected in science and the number of candidates who applied for the same?
- (a) 15940 (b) 14904
- (c) 15904 (d) 16940
- 57. What is the sum of the total number of candidates who applied for Arts and the number of candidates who got selected in Maths and English both ?
- (a) 19432 (b) 20432
- (c) 20342 (d) 19432

- 58. What is the ratio between the number of candidates who qualified in Arts and commerce together and the number of candidates who qualified in English and Science?
- (a) 17 : 25 (b) 17 : 29
- (c) 17 : 26 (d) 29 : 17
- 59. What percent of candidates qualified in English of the total

candidates applied for the same ?

(a) 19 (b) 16

(c) 17 (d) 15

- 60. Find the average number of candidates who got selected
- for English, Science and Arts.
- (a) 3168 (b) 3618
- (c) 3628 (d) 3268
- 61. In a survey, 3/16 of the people said that they preferred to use self-service gas stations, 5/8 said that they preferred not to pump their own gas. The remaining 75 respondents said that they had no clear preference. How many people preferred self-service?
- a)100 b) 75

c) 150 d) 125

62. It costs a manufacturer X rupees per component to make the first 1000 components. All the subsequent components cost X/3 each. When X = 1.50, how much will it cost to manufacture 4000 components.
a)3250 b) 7500

c) 4000 d) 3000

Directions to Solve

In questions given below, a part of the sentence is *italicised and underlined*. Below are given alternatives to the italicised part which may improve the sentence

- 63. While we would like that *all Indian Children* to go to school, we need to ponder why they do not.
- A. that all the Indian children
- B. if all the children of India
- C. all Indian children
- D. No improvement

- 64. The poor villagers <u>have waited</u> in the bitter cold for more than 4 hours now.
- A. have been waiting
- B. had waited
- C. has been waiting
- D. No improvement
- 65. Not a word *they spoke* to the unfortunate wife about it
- A. did they speak
- B. they will speak
- C. they had spoken
- D. No improvement
- 66. I shall not go until I am invited.
- A. till I am invited
- B. Unless I am invited
- C. if not I am invited
- D. No improvement
- 67. A merchant has 1000 kg of sugar, part of which he sells at 8% profit and the rest at 18% profit. He gains 14% on the whole. The quantity sold at 18% profit is:
- A. 400 kg
- B. 560 kg
- C. 600 kg
- D. 640 kg
- 68. In what ratio must water be mixed with milk to gain $16\frac{2}{3}$ % on selling the mixture at cost price?
- A. 1:6
- B. 6:1
- C. 2:3
- D. 4:3
- 69. If 3(x y) = 27 and 3(x + y) = 243, then x is equal to:
- A. 0
- B. 2
- C. 4
- D. 6

70. If $x = 3 + 2\sqrt{2}$, then the value of $\left(\sqrt{x} - \frac{1}{\sqrt{x}}\right)$ is A. 1 B. 2 C. 22

D. 33

Study the following line graph and answer the questions (71-75):



- 71. For which of the following pairs of years the total exports from the three Companies together are equal?
- A. 1995 and 1998
- B. 1996 and 1998
- C. 1997 and 1998
- D. 1995 and 1996
- 72. Average annual exports during the given period for Company Y is approximately what percent of the average annual exports for Company Z?
- A. 87.12%
- B. 89.64%
- C. 91.21%
- D. 93.33%
- 73. In which year was the difference between the exports from Companies X and Y the minimum?
- A. 1994
- B. 1995
- C. 1996
- D. 1997
- 74. What was the difference between the average exports of the three Companies in 1993 and the average exports in 1998?
- A. Rs. 15.33 crores
- B. Rs. 20 crores
- C. Rs. 18.67 crores
- D. Rs. 22.17 crores

- 75. In how many of the given years, were the exports from Company Z more than the average annual exports over the given years?
- A. 2
- B. 3
- C. 4
- D. 5
- 76. The importance of sleep is often overlooked by students when they are preparing for exams. Research has consistently shown that sleep deprivation greatly reduces the ability to recall the material learnt. Hence, cutting down on sleep to study longer hours can be counterproductive.

Which one of the following statements is the correct inference that can be drawn from the above passage?

- a) Sleeping well alone is not enough to prepare for an exam.
- b) Students are efficient and are not wrong in thinking that sleep is a waste of time.
- c) If a student is extremely will prepared for an exam, he needs little or no sleep.
- d) To do well in an exam, adequate sleep be part of the preparation.

Directions to Solve (77-78):

Find the statement that must be true according to the given information.

77. Tim's commute never bothered him because there were always seats available on the train and he was able to spend his 40 minutes comfortably reading the newspaper or catching up on paperwork. Ever since the train schedule changed, the train has been extremely crowded, and by the time the doors open at his station, there isn't a seat to be found.

A. Tim would be better off taking the bus to work.

B. Tim's commute is less comfortable since the train schedule changed.

C. Many commuters will complain about the new train schedule.

D. Tim will likely look for a new job closer to home

78. On weekends, Mr. Sanchez spends many hours working in his vegetable and flower gardens. Mrs. Sanchez spends her free time reading and listening to classical music. Both Mr. Sanchez and Mrs. Sanchez like to cook.

A. Mr. Sanchez enjoys planting and growing vegetables.

B. Mr. Sanchez does not like classical music.

C. Mrs. Sanchez cooks the vegetables that Mr. Sanchez grows.

D. Mrs. Sanchez enjoys reading nineteenth century novels

Directions to Solve

In each of the following questions, two statements numbered I and II are given. There may be cause and effect relationship between the two statements. These two statements may be the effect of the same cause or independent causes. These statements may be independent causes without having any relationship. Read both the statements in each question and mark your answer as

(A) If statement I is the cause and statement II is its effect;

(B) If statement II is the cause and statement I is its effect;

(C) If both the statements I and II are independent causes;

(D) If both the statements I and II are effects of independent causes; and

(E) If both the statements I and II are effects of some common cause.

79. Statements:

All the schools in the area had to be kept closed for most part of the week. Many parents have withdrawn their children from the local schools.

A. Statement I is the cause and statement II is its effect

B. Statement II is the cause and statement I is its effect

C. Both the statements I and II are independent causes

D. Both the statements I and II are effects of independent causes

E. Both the statements I and II are effects of some common cause

80. Statements:

The literacy rate in the district has been increasing for the last four years. The district administration has conducted extensive training programme for the workers involved in the literacy drive.

A. Statement I is the cause and statement II is its effect

B. Statement II is the cause and statement I is its effect

C. Both the statements I and II are independent causes

D. Both the statements I and II are effects of independent causes

E. Both the statements I and II are effects of some common cause

81. Statements:

The government has decided to make all the information related to primary education available to the general public. In the past, the general public did not have access to all these information related to primary education.

A. Statement I is the cause and statement II is its effect

B. Statement II is the cause and statement I is its effect

C. Both the statements I and II are independent causes

D. Both the statements I and II are effects of independent causes

E. Both the statements I and II are effects of some common cause

82. Statements:

There is considerable reduction in the number of people affected by water-borne diseases in City A during this rainy season. The government has opened four new civil hospitals in City A in the beginning of the year.

A. Statement I is the cause and statement II is its effect

B. Statement II is the cause and statement I is its effect

C. Both the statements I and II are independent causes

D. Both the statements I and II are effects of independent causes

E. Both the statements I and II are effects of some common cause

83. Statements:

The Government has imported large quantities of sugar as per trade agreement with other countries. The prices of sugar in the domestic market have fallen sharply in the recent months.

A. Statement I is the cause and statement II is its effect

B. Statement II is the cause and statement I is its effect

C. Both the statements I and II are independent causes

D. Both the statements I and II are effects of independent causes

E. Both the statements I and II are effects of some common cause

Directions to Solve

Read the paragraph carefully and determine the main point the author is trying to make. What conclusion can be drawn from the argument? Each paragraph is followed by five statements. One statement supports the author's argument better than the others do.

84. The criminal justice system needs to change. The system could be more just if it allowed victims the opportunity to confront the person who has harmed them. Also, mediation between victims and their offenders would give the offenders a chance to apologize for the harm they have done.

This paragraph best supports the statement that victims of a crime should

- A. learn to forgive their offenders.
- B. have the right to confront their offenders.
- C. learn the art of mediation.
- D. insist that their offenders be punished.

E. have the right to impose a sentence on their offenders

85. If you're a fitness walker, there is no need for a commute to a health club. Your neighborhood can be your health club. You don't need a lot of fancy equipment to get a good workout either. All you need is a well-designed pair of athletic shoes.

This paragraph best supports the statement that

A. fitness walking is a better form of exercise than weight lifting.

B. a membership in a health club is a poor investment.

C. walking outdoors provides a better workout than walking indoors.

D. fitness walking is a convenient and valuable form of exercise.

E. poorly designed athletic shoes can cause major foot injuries

86. Mathematics allows us to expand our consciousness. Mathematics tells us about economic trends, patterns of disease, and the growth of populations. Math is good at exposing the truth, but it can also perpetuate misunderstandings and untruths. Figures have the power to mislead people.

This paragraph best supports the statement that

- A. the study of mathematics is dangerous.
- B. words are more truthful than figures.

C. the study of mathematics is more important than other disciplines.

D. the power of numbers is that they cannot lie.

E. figures are sometimes used to deceive people

87. There are no effective boundaries when it comes to pollutants. Studies have shown that toxic insecticides that have been banned in many countries are riding the wind from countries where they remain legal. Compounds such as DDT and toxaphene have been found in remote places like the Yukon and other Arctic regions.

This paragraph best supports the statement that

A. toxic insecticides such as DDT have not been banned throughout the world.

B. more pollutants find their way into polar climates than they do into warmer areas

C. studies have proven that many countries have ignored their own antipollution laws.

D. DDT and toxaphene are the two most toxic insecticides in the world.

E. even a worldwide ban on toxic insecticides would not stop the spread of DDT pollution.

Directions to Solve

Read the below passage carefully and answer the questions:

Giving children computers in grade school is a waste of money and teachers time. These children are too young to learn how to use computers effectively and need to spend time on learning the basics, like arithmetic and reading. After all, a baby has to crawl before she can walk.

- 88. Which of the following, if true, would strengthen the speaker's argument?
- A. studies showing computers are expensive

B. research on the effect of computer games on children

C. examples of high school students who use computers improperly

D. proof that the cost of computers is coming down

E. evidence that using computers makes learning to read difficult

89. Which of the following, if true, would weaken the speaker's argument?

A. a demonstration that computers can be used to teach reading and arithmetic

B. analysis of the cost-effectiveness of new computers versus repairing old computers

C. examples of adults who do not know how to use computers

D. recent grade reports of students in the computer classes

E. a visit to a classroom where computers are being used

90. Which of the following methods of argument is used in the previous passage?

A. a specific example that illustrates the speaker's point

B. attacking the beliefs of those who disagree with the speaker

C. relying on an analogy to prove the speaker's point

D. displaying statistics that back up the speaker's point

E. comparing different methods of learning