ALL ANSWERS MUST BE GIVEN ON THE COMPUTERIZED ANSWER SHEET BY CROSSING THE CORRESPONDING LETTER

No. of Questions: 50 (from 1 to 50)	Time: 80 Minutes
Questions on Page Numbers: 1 To 10	Negative Markings: Yes

Q1 A binary operator \diamond is defined as:

$$u \ v = \begin{cases} u + v \ for \ u > v \\ u - v \ for \ u \le v \end{cases}$$

The value of $\frac{3}{5} \frac{0}{5} \frac{5}{3}$ is
A) 4
B) -4
C) $\frac{1}{4}$
Q2 The parabola $y = 1 - x^2$ meets the line $y = mx + c$ at two points, namely $(2, \alpha)$ and $(-3, \beta)$. The value of $m + c$ is:
A) 4
B) -4
C) 1
D) -5
Q3 A line in the xy-plane passes through the origin and has a slope of $-\frac{10}{11}$. Which of the following points doesn't lie
on the line?
A) (11, -10)
B) (11, 10)
C) (22, -20)
D) (-11, 10)
Q4 If $\frac{x^2 + x - 12}{x^2 + 3x - 4} = \frac{-1}{x^2 - 6x + 5}$, then which of the following could be a value of x?
A) 4
B) -4
C) 2
D) -2
Q5 If the product of $2x^2 - x - 3$ and $3x^2 - x - 4$ is zero, then x could equal any of the following numbers EXCEPT
A) $\frac{4}{3}$
B) -1
C) $\frac{2}{3}$

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Q6 Which of the following is the same as i^{26} ? Note $i = \sqrt{-1}$.

A) –1

B) 1

C) i

D) – *i*

Q7 What is the area of a circle centered at (6, 9) that passes through the origin?

A) 117π

B) $\sqrt{117}\pi$

C) 234π

D) $2\sqrt{117}\pi$

Q8 If the remainder is 5 when positive integer α is divided by 7, then what is the remainder when 9α + 3 is divided by 7?

A) 4

B) 5

C) 6

D) 7

Q9 How many four-digit positive integers have digits that are all different and have both prime thousands and units digits?

A) 1680

B) 1120

C) 672

D) None of these

Q10 What is the distance between the x-intercept and the y-intercept of the line $y = -\frac{4}{5}x + 8$?

A) 164

B) 18

C) $2\sqrt{41}$

D) None of these

Q11 A straight line passes through the points (5, j) and (j, 6). The slope of the line is $\frac{2}{3}$. What is the value of j?

A) 6.5

B) 5.6

C) 11.11

D) None of these

Q12 A company pays R30000/= as maintenance charges for all the generators located in different places of the company for one year. The charges were then increased by 12% each year thereafter. How much will the company pay for the first four year as maintenance charges?

A) R93600/=

B) R97200/=

C) R101232/=

D) None of these

Q13 A small shopkeeper sells Chicken patties for R40 each and Tuna patties for R50 each. The shopkeeper's revenue from selling a total of 30 Chicken patties and Tuna patties in one day was R1400. How many Tuna patties were sold that day?

- A) 10
- B) 20
- C) 30
- D) 40

Q14 The area of a rectangle is 48 cm². If the ratio of its diagonal to larger side is 5 : 4, then what is its circumefrence?

- A) 56
- B) 28
- C) 14
- D) None of these

Q15 Which of the following is the value of sin(270°)?

- A) –1
- B) 1
- C) 0
- D) None of these

```
Q16
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The area of the above triangle is

- A) 5√<u>39</u>
- B) 2.5√39
- C) 40
- D) None of these

Q17 Which of the following is an equation of a circle in the xy-plane which touches both the axes and whose center is (3, 3)?

A)
$$(x-3)^{2} + (y+3)^{2} = 9$$

B) $(x-3)^{2} + (y-3)^{2} = 9$
C) $(x+3)^{2} + (y+3)^{2} = 9$
D) $(x+3)^{2} + (y-3)^{2} = 9$



A line is graphed in the xy-plane as shown above. Which of the following equations represents the line?

A) 2x + y = 2

B) x + 2y = 8

C) x + 2y = 4

D) None of these

Q20 In right triangle ABC, the longest side, AB, is w cm long, and angle BAC is twice the angle ABC. What is the area of the triangle in cm²?

A) $\frac{\sqrt{3}}{8}w^2$

B)
$$\frac{\sqrt{3}}{4}w^2$$

C)
$$\frac{\sqrt{3}}{2}w^2$$

D)
$$\sqrt{3}w^2$$

Q21 At the end of each semester Prof. Shafqat has to grade all the examination copies of those students who appeared in the examination of the course he was teaching in that semester. The number of copies that he left to grade can be estimated with the equation C = 63 - 15d, where C is the number of copies left and d is the number of days he has devoted to grading. What is the meaning of the value 63 in this equation?

A) Prof. Shafqat will complete the grading within 63 days.

B) Prof. Shafqat starts each day with 63 copies to grade.

C) Prof. Shafqat has to grade 63 copies in all.

D) Prof. Shafqat has to grade 63 copies per day.

Q22

 $8x - 4y = \alpha$

 $4x - 2y = 1 - 2\alpha$

Consider the system of linear equations above. Which of the following choices of α will result in a system of equations with more than one solution

A) 0.4

B) 0.5

C) 0.6

D) 0.7

Q23 Let us consider the function h(x) defined by $h(x) = \frac{ax^2 + 4}{x + a}$, where *a* is a constant and h(4) = 10. What is the value of h(-4)? A) -10

- B) 10
- D) 10

C) 6

D) 50

Q24 Tickets to enter a museum were R30 for each child and R60 for each adult. In a particular day 100 adults brought 3 children each and the remaining adults brought 2 children each. Children alone were not allowed to enter the museum. The total tickets sales from the children and adults was R25800. How many children and adults entered the museum?

A) 270 B) 470 C) 670 D) None of these Q25 5x + y = x + 200x - y = 5y + 100

Based on the system of equations above, what is the value of the product xy?

A) 416

- B) -416
- C) 1184
- D) -1184

Q26 If $(y + a)(5y + 3) = 5y^2 + cy + 10 + b$ for all values of y, and ab = -8, then value of c

I. 2 II. 13 III.
$$\frac{29}{3}$$

- A) II only
- B) III only
- C) I and II only
- D) II and III only

Q27 Blue Cab Taxi charges a R250 flat rate in addition to R25 per KM. Khalida has no more than R800 to spend on a trip. How many KMs can Khalida travel without exceeding her limit?

- A) 32 KMs
- B) 27 KMs
- C) 22 KMs
- D) None of these

Q28 If
$$u - 2v = 3$$
, what is the value of $\frac{5^u}{25^v}$?

- A) 125
- B) 25
- C) 5
- D) None of these

Q29 (2x + 3)(x - 3) = x - 1

What are all the solutions to the equation above?

A)
$$x = -3$$
 and $x = 3$
B) $x = -1.5$ and $x = 3$
C) $x = 1 + \sqrt{5}$ and $x = 1 - \sqrt{5}$
D) None of these
Q30
 $5^{-\frac{1}{3}}(\frac{1}{25})^{-\frac{2}{5}} =$
A) $5\frac{\frac{17}{15}}{\frac{17}{15}}$
B) $5\frac{\frac{7}{15}}{\frac{7}{15}}$
C) $5^{-\frac{17}{15}}$
D) $5^{-\frac{7}{15}}$

Q31 The graph of y = (x + 4)(6 - 3x) is a parabola in the xy-plane. In which of the following equivalent equations do the x- and y-coordinates of the vertex of the parabola appear as constants or coefficients?

A)
$$y = -3x^2 - 6x + 24$$

B) $y = -3x(x + 2) + 24$

C)
$$y = 3(x + 4)(2 - x)$$

D)
$$y = -3(x - (-1))^2 + 27$$

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Q32 Which of the following is equal to $\cos(\frac{\pi}{9})$?

A)
$$-\sin(\frac{\pi}{9})$$

B) $\cos(\frac{7\pi}{18})$
C) $\sin(\frac{7\pi}{18})$
D) $-\cos(\frac{\pi}{9})$

Q33 In a list of 17 integers, 8 is the lowest member, 37 is the highest member, the mean is 23, the median is 23, and the mode is 19. If the numbers 6 and 40 are then included in the list, which of the following will change?

- A) The mean
- B) The median
- C) The mode
- D) Nothing will change

Q34 Suppose the expression $\frac{x}{x-1}$ is written in the equivalent form $\frac{x+1}{x^2-1}$ + A. What is A in terms of x?

- A) 1
- B) -1
- C) 0
- D) None of these

Q35 A chord of a circle of radius 15 cm is parallel to the diameter of the same circle. The length of the chord is 20 cm. The distance between chord and the diameter is

- A) $5\sqrt{5}$ cm
- B) 5π cm
- C) 10π cm
- D) $1.5\sqrt{2}$ cm

Q36 It is given that $\sin \theta = \alpha$ where θ is the radian measure of an angle and $\frac{\pi}{2} < \theta < \pi$. If $\sin \phi = -\alpha$, then which of the

following could be the value of $\varphi ?$

	١.	$\pi - \theta$	II.	θ – π	III.	2π – θ		
A)	I only							
B)	II only							
C)	III only							
D)	II and III only							
Q37 A solution to the equation $\frac{9}{x-2} - \frac{3}{x+2} = \frac{4}{11}$								
	١.	20	II.	3.5	III.	-3.5		
A)	I only							
B)	II only							
C)	III only							
D)	I and III on	ly						

Q38 If the average of x, y, z, and 90 is 20 less than the average of y, z, w, and 100, what is the value of w - x?

- A) 95
- B) 70
- C) -70
- D) None of these

Q39 What is the area of a circle whose equation in the xy-plane is $x^2 + y^2 - 4x + 6y = 1000$?

- Α) 1013 π
- B) 2016 π
- C) $\sqrt{1013} \pi$
- D) None of these

Q40 Let $y(x) = \sqrt{x^2 - 1}$. Which of the following is equivalent to y(y(x))?

- A) $\sqrt{x^2 2}$
- B) $\sqrt{(x^2-1)^2-1}$
- C) $\sqrt{x^2 1} 1$
- D) None of these

Q41 If 3x - 5y = 10, what is the value of $9x^2 + 25y^2 - 30xy + 0.6x - y$?

- A) 10
- B) 100
- C) 12
- D) 102

Q42 For what value of n is $|n^2 - 1| - 1$ equal to 0?

- I. $-\sqrt{2}$ II. 0 III. $\sqrt{2}$
- A) I only
- B) II only
- C) I and II only
- D) I, II and III

Q43 A solution to the equation given below?

$$4w + 3 = \frac{1 - w}{w}$$
$$w = \frac{-1 + \sqrt{2}}{2}$$
II. $w = \frac{1 + \sqrt{2}}{-2}$ III. $w = -\frac{1}{2}$

- A) I only
- B) II only
- C) I and II only

١.

D) I and III only

Q44 Which of the following numbers is NOT a solution of the inequality 2x - 7 > 5x - 10?

- A) –2
- B) –1
- C) 0
- D) 1

Q45

|2x - 3| = 9

|3y - 2| = 7

For the equations shown above, which of the following is a possible value of x + y?

١. 9 Π. III. 0 6

- A) I only
- B) II only
- C) I and II only
- D) I and III only

Q46



The complete graph of the function f is shown in the xy-plane above. For what value of x is the value of f(x) at its maximum?

- A) -5
- B) –3
- C) -2
- D) 3

Q47 It is not possible to draw a triangle with sides of lengths

- A) 10, 10, 10
- B) 6, 8, 10
- C) 9, 2, 11
- D) 6, 7, 8

Q48 The sum of five consecutive positive odd integers is 5y. In terms of y, what is the sum of the middle three integers?

A) 2y

- 2*y* B) 5
- C) 3y
- D) $\frac{3y}{5}$

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Q49



The above histogram shows the marks of 15 students in a class, grouped into groups of width 10. How many students secured marks greater than or equal to 60 but less than 90?

A) 10

B) 11

C) 12

D) 13

Q50 What is the sum of the first 57 terms of an arithmetic sequence if the sum of its 16th and 42nd term is 80?

- A) 2280
- B) 2180
- C) 2200
- D) 2240

Stop. This is the END of part 1. Please, do not turn over the next page until you are told to do so.

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English s M.C.Q's

No. of Questions: 44 (from 51 to 94) Questions on Page Numbers: 11 To 20 Time Allowed: 50 Minutes Negative markings: **Yes**

Grammar and Vocabulary Section

Q. 51-66

Please choose the correct option to fill in the blank.

In the late summer of that year we _____ (51) in a house in a village that looked across the river and the plain to the mountains. In the bed of the river there were pebbles and boulders, dry and white in the sun, and the water was clear and swiftly moving and blue in the channels. Troops went by the house and down the road and the dust they _____ (52) powdered the leaves of the trees. The trunks of the trees too _____ (53) dusty and the leaves fell early that year and we (54) the troops (55) along the road and the dust rising and leaves, _____ (56) by the breeze, falling and the soldiers marching and _____ (57) the road bare and white (58) for the leaves. The plain was rich with crops; there were many orchards of fruit trees and beyond the plain the mountains were brown and bare. There _____ (59) in the mountains and at night _____ (60) see the flashes from the artillery. (61) the dark it was like summer lightning, but the nights were cool and there was not the feeling of a storm coming. Sometimes in the dark we heard the troops marching under the window and guns going past pulled by motor-tractors. There was much traffic at night and many mules on the roads with boxes of ammunition on each side of their pack-saddles and gray motor trucks (62) men, and other trucks with loads covered with canvas that moved slower in the traffic. There were big guns too that _____ (63) in the day drawn by tractors, the long barrels of the guns _____ (64) with green branches and green leafy branches and vines laid over the tractors. To the north we could look across a valley and see a forest of chestnut trees and behind it another mountain on this side of the river. There (65) for that mountain too, but it was not (66), and in the fall when the rains came the leaves all fell from the chestnut trees and the branches were bare and the trunks black with rain

51)

a) lived

b) would have been living

c) was living

d) will have been living

52)

a) was raising

b) rising

c) had risen

d) raised

53)

a) are

b) were

c) is

d) was

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54)

a) saw

b) seen

c) were seeing

d) will have seen

55)

a) would march

b) marched

c) marching

d) will march

56)

a) to stir

b) was stirred

c) stirred

d) will have been stirring

57)

a) prior

b) afterward

c) beforehand

d) earlier

58)

a) including

b) especially

c) particularly

d) except

59)

a) was fighting

b) fought

c) will have fought

d) would fight

60)

a) we could

b) we can

c) we should

d) did

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61)

a) below

b) in

c) at

d) on

62)

a) to carry

b) that carried

c) will have carried

d) carrying

63)

- a) halted
- b) flew
- c) passed
- d) settled

64)

- a) covered
- b) exposed
- c) hosed
- d) deposed

65)

- a) fight
- b) fought
- c) were fighting
- d) was fighting

66)

- a) eventual
- b) perpetual
- c) unforunate
- d) successful

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Q. 67-71

Please choose the correct option

The _____ (67) of drones is their ease of operation. Unlike most helicopters, hovering drones use multiple rotors. Many drones are based ______ (68) a design called a quadcopter, _____ (69) employs four rotors on arms set 90 degrees to each other. Each rotor is directly driven by an electric motor. By turning two of the rotors clockwise and two anticlockwise it counters the twisting effects of torque produced by a single-rotor helicopter (without a tailrotor to push against the torque, a helicopter would spin hopelessly round and round).

_____, (70) whereas a helicopter needs to vary the pitch of its blades (the angle at which they attack the air) in order to manoeuvre, the multiple rotors on a drone have a fixed pitch. The drone instead manoeuvres by independently changing the speed of one or more of its rotors under computer control. _____ (71) this set-up requires fewer and less complex moving parts than a helicopter, it makes drones simpler, cheaper to build and maintain, and potentially more reliable.

67)

a) disadvantage

b) attraction

c) throwback

d) aspect

68)

a) in

b) at

c) on

d) by

69)

a) which

b) that

c) what

d) where

70)

a) in addition to

b) moreover

c) although

d) on behalf of

71)

a) why

b) wherever

c) whether

d) as

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Q. 72-76

Please choose the correct option

_____ (72) 1993, the writer-psychiatrist Peter D. Kramer published *Listening to Prozac*, his best-selling examination of a pill that promised to ______ (73) the treatment of anxiety and depression. In 2010, the Harvard researcher and psychologist Irving Kirsch published *The Emperor's New Drugs: Exploding the Antidepressant Myth*, a data-fueled argument ______ (74) was lauded in a *New York Review of Books* essay called "The Illusions of Psychiatry" and featured on *60 Minutes*, as well as in a *Newsweek* cover story. "Studies suggest," the article reported, "that the popular drugs are no more effective than a placebo." Can it really be that Steve Martin's routine from the 1970s—"If you ______ (75) chance to take these drugs, do it; they're called placebos!"—sums up the state of antidepressants in the 21st century? The short answer is no. But a longer answer is required, and Kramer has written *Ordinarily Well: The Case for Antidepressants* to address what he feels is a destructive level of ignorance and ______ (76) about the class of drugs known as selective serotonin reuptake inhibitors, or SSRIs.

72)

a) in

b) on

c) from

d) by

73)

a) revolutionize

b) rise

c) advise

d) scrutinize

74)

a) where

- b) which
- c) that

d) of which

75)

- a) shall get a
- b) won't get a

c) could get a

d) can get a

76)

a) clarity

b) confusion

c) coherence

d) comprehension

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Q. 77-86

Please choose the correct option.

"What I want is facts...facts alone are wanted in life." Thomas Gradgrind's grim message in Charles Dickens's "Hard Times" is echoed in the debate ahead of the referendum on June 23rd about whether Britain should leave the European Union. Voters (77) by claims made by opposing sides and in the media are asking for plain facts on Britain's EU membership so they can make up their minds. Sadly, hard facts are hard to find. There is a good reason for this: nobody knows what would happen post-Brexit. That is especially true of the trade deal that Britain would have to _____ (78) with the EU - and how long that might take (the government this week suggested up to ten years). But there is also a bad reason: that the uncertainty lets all sides distort, _____ (79) or simply make up their own facts. Three examples _____ (80) this. The first is an old assertion that 3m jobs in Britain depend on trade with the EU. In fact, _____ (81) of the close links among European economies, many economists reckon the true figure is higher. Yet the claim sometimes made by pro-EU voices that all these jobs would be at risk post-Brexit is a nonsense. Nobody can _____ (82) argue that all trade with the EU would cease. Anyway, job creation depends more on demand, wage levels and labour laws than on membership of a trade block. The second example concerns the British _____ (83) to the EU budget. Leavers (84) that Britain pays an unfairly large amount of almost £20 billion (\$28 billion) a year to Brussels, or £55m a day. In fact this is the gross amount before deducting both the rebate won by Margaret Thatcher in 1984 and the money the EU spends in Britain. _____ (85) for these, and for the funnelling of some foreign-aid spending via Brussels, the net payment is less than one-third as big, at £17m a day—and Britain is only the eighth-largest _____ (86) per head

- 77)
- a) understood
- b) confused
- c) happy
- d) saddened
- 78)
- a) inform
- b) argue
- c) negotiate
- d) create
- 79)
- a) exaggerate
- b) research
- c) study
- d) write
- 80)
- a) hide
- b) conceal
- c) picture
- d) illustrate

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81)

a) anyway

- b) otherwise
- c) because
- d) well

82)

a) realistically

b) unrealistically

c) drastically

d) immeasurably

83)

- a) amalgamation
- b) loss
- c) substitution
- d) contribution

84)

- a) pretend
- b) claim
- c) blame
- d) abstain

85)

- a) ignoring
- b) boring
- c) looking
- d) adjusting

86)

- a) realtor
- b) contributor
- c) distributor
- d) spendthrift

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Q. 87 -94

Choose the best answer for each passage.

87)

The origins of today's EU lie in the ashes of post-war Europe. Reconciliation between France and Germany, urged by Winston Churchill in 1946, led to the creation of the six-member European Coal and Steel Community (ECSC) in 1951 and the European Economic Community (EEC) in 1957. But a wary Britain, keen to preserve links with the Commonwealth and America, stood aside from both. Only in the 1960s did the British, impressed by the continent's stronger economy, try to join, eventually doing so in 1973. This passage states that:

a) France and Germany severed ties in 1946 because of Winston Churchill's advice

b) The ECSC formed in 1957 and had six members including France and Germany

c) The British joined the EEC in 1960 because they were impressed by its economic growth

d) The British initially wanted to maintain their relationship with the Commonwealth and America

88)

There is something about these bloody squadron leaders that makes them think that if they lock you up in a cell, put their stinking mouth to your ear and shout something about your mother they can find all the answers. They are generally a sad lot, these leaders without any squadrons to lead. It's their own lack of leadership qualities that stops them mid-career, nowhere for them to go except from one training institute to another, permanent seconds in command to one commander or the other. You can tell them from their belts, loose and low, straining under the weight of their paunches. Or from their berets, so carefully positioned to hide that shiny bald patch. Schemes for part-time MBAs and a new life are trying hard to keep pace with missed promotions and pension plans

The subject of the passage is:

- a) Squadron leaders
- b) Commanders
- c) Berets
- d) Paunches

89)

Sunday's attack on the Pulse nightclub in Orlando, Florida was the deadliest mass shooting in American history – but there were five other mass shootings in the US during that weekend alone. "We have a pattern now of mass shootings in this country that has no parallel anywhere else in the world," Barack Obama said after the San Bernardino attack in December 2015. Data compiled by the Gun Violence Archive reveals a shocking human toll: there is a mass shooting – defined as four or more people shot in one incident, not including the shooter – on five out of every six days, on average.

The primary purpose of this passage is to:

a) persuade

- b) inform
- c) satirize
- d) entertain

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90)

A jury is expected to leave a Los Angeles federal courtroom on Wednesday afternoon to deliberate the question every rock fan has been forced to mull over for the past week: Did the British band Led Zeppelin plagiarize the distinctive music that opens their most popular song "Stairway to Heaven" from American rock band Spirit's 1967 instrumental "Taurus"? As rock fans prepare for the verdict, here's what might — and might not — happen if Zeppelin loses. Firstly, this is a jury verdict. Unlike a judge's decision, which may offer a new interpretation of the law for future courts to take into consideration, a jury verdict sets no legal precedent.

Which category below describes the organizational method used in the passage above:

- a) description
- b) chronological
- c) cause/effect
- d) comparison/contrast

91)

It will probably be 10 years before anyone can say whether the Paris climate deal, which was agreed to with much hoopla on December 12th, was a historic event that marked the moment when the human race finally got serious about the fight against climate change, or just a United Nations therapy session whose main role was to make us feel better about our headlong plunge toward climate catastrophe.

The author states that:

a) The Paris climate deal took ten years to broker and was a historic event

b) We need ten years before we can assess whether the Paris climate deal was effective

c) The Paris climate deal offered free therapy sessions to its participants

d) The United Nations said the human race needs to get serious about climate change

92)

Lemmings are small rodents of the Arctic areas that experience population explosions when food is plentiful. Periodically, lemmings migrate in large groups when population densities peak. They swim across bodies of water in search of new habitats and many drown if the distance is great, thus practising self-destruction. In some respects, this emulates human behavior.

The author of this passage implies that:

- a) Lemmings don't like to eat
- b) Human beings hate swimming
- c) Lemmings hate migration
- d) Human beings are self-destructive

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93)

Of course all life is a process of breaking down, but the blows that do the dramatic side of the work -- the big sudden blows that come, or seem to come, from outside -- the ones you remember and blame things on and, in moments of weakness, tell your friends about, don't show their effect all at once. There is another sort of blow that comes from within -- that you don't feel until it's too late to do anything about it, until you realize with finality that in some regard you will never be as good a man again. The first sort of breakage seems to happen quick -- the second kind happens almost without your knowing it but is realized suddenly indeed.

Which of the following best describes the main idea of this passage?

- a) When life gives you lemons, make lemonade
- b) The early bird catches the worm
- c) Life often presents you with setbacks
- d) Birds of a feather flock together
- 94)

Pakistan has witnessed a rapid urbanization in the last three decades. This development comes alongside the rise of the commercial and political significance of cities. Much like the rest of the world, land speculation has played a key role in the high growth rates witnessed under the fourth army ruler, General Pervez Musharraf–as well as in the rise of an upwardly mobile and politically assertive middle class. The simultaneous rise in the value of urban land, and increased rural to urban migration is at the heart of the complex processes that shape the urban experience in contemporary Pakistan.

Based on this passage Pakistan:

a) Has experienced decreasing urbanization

- b) Has had its third military dictator
- c) Has an assertive working class
- d) Has experienced high growth rates

This is the END of part 2. Please, wait for part 3 (writing one essay).
