

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

Mathematics M.C.Q's

No. of Questions: 50 (from 1 to 50)

Time: 80 Minutes

Questions on Page Numbers: 1 To 10

Negative Markings: **Yes**

Q1 In a right triangle, one angle measures x° , where $\cos x^\circ = 0.8$. Let $y = 90^\circ - x^\circ$. What is the value of $\sin (y^\circ)$?

- A) 0.8
- B) 0.6
- C) 0.5
- D) None of these

Q2 The length of a rectangle with area 98 square centimeters is 14 centimeters. What is the diagonal of the rectangle, in centimeters?

- A) 14.65
- B) $7\sqrt{5}$
- C) 10.5
- D) 9.8

Q3 Let $f(x) = x^2 - 2x + 1$. Find $f(1 - \sqrt{x})$

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

Q4 $\frac{4}{\sqrt{28} - \sqrt{20}} =$

- A) $\sqrt{7} - \sqrt{5}$
- B) $\sqrt{7} + \sqrt{5}$
- C) $\sqrt{5} - \sqrt{7}$
- D) None of these

Q5 Which of the following number is not a solution of the inequality $\frac{1}{3x-8} \leq \frac{1}{8x-3}$?

- A) 2
- B) -2
- C) -1
- D) 0

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Q6 What is the sum of the reciprocals of the solutions to the equation

$$x^2 - x = -\frac{6}{25}$$

- A) $-\frac{6}{25}$
 B) $-\frac{25}{6}$
 C) $\frac{6}{25}$
 D) $\frac{25}{6}$

Q7 How many different products can be made by multiplying any two different integers from the list given below?

1 2 3 4 8

- A) 4
 B) 6
 C) 8
 D) 9

Q8 The sum of 11 consecutive odd integers is 143. What integer has the least value in the list?

- A) 1
 B) 3
 C) 5
 D) 7

Q9 The sum of the first 19 terms of an arithmetic progression is equal to the twice of the value of 10th term. The value of 10th term will be

- A) 0
 B) 1
 C) 2
 D) None of these

Q10 The equation $\frac{4x^2+3x-2}{\alpha x-1} = -4x + 1 - \frac{1}{\alpha x-1}$ is true for all values of $x \neq \frac{1}{\alpha}$, where α is a constant. What is the value of α ?

- A) 2
 B) 0
 C) -1
 D) 1

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Q11 The average (arithmetic mean) of 2, 6, 9, 16, and x is 5. The average (arithmetic mean) of 3, 6, 9, 18, 16, and y is 6. The average (arithmetic mean) of x and y is

- A) -12
- B) -24
- C) 5
- D) 6

Q12 What fraction lies exactly halfway between $\frac{3}{7}$ and $\frac{5}{9}$?

- A) $\frac{5}{7}$
- B) $\frac{1}{2}$
- C) $\frac{31}{63}$
- D) $\frac{15}{63}$

Q13 At a summer camp, 90 children take painting class, 45 children take sketching class, and 150 children do not take either sketching class or painting class. If 33 children take both painting class and sketching class, how many total children are at the summer camp?

- A) 252
- B) 285
- C) 135
- D) None of these

Q14 If exactly one of the three integers x , y , and z is odd, which of the following expressions must be odd?

- I. $x + yz$ II. $x + y + z$ III. xyz

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

Q15 If $\frac{5-i}{3+i} = \alpha + i\beta$ where ($i = \sqrt{-1}$), then value of $\alpha + \beta$ is

- A) 0.6
- B) 5.3
- C) -0.6
- D) None of these

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Q16 Find the domain of the function $f(x) = \frac{\sqrt{x^2-9}}{(x^2-x-2)}$:

- A) $(-\infty, -3] \cup [3, \infty)$
- B) $(-\infty, -1) \cup (2, \infty)$
- C) $(-\infty, -3) \cup (3, \infty)$
- D) None of these

Q17 What is the range of $(2x - 3y)$ if $6 < x < 10$ and $-3 < y < -2$?

- A) $26 < 2x - 3y < 21$
- B) $0 < 2x - 3y < 6$
- C) $18 < 2x - 3y < 29$
- D) None of these

Q18 A number is randomly selected from the set $\{-3, -2, 7, 8, 30, 40\}$. What is the probability that the number is a member of the solution set of both $|x - 4| > 2$ and $|x - 2| < 6$?

- A) 0.6
- B) 0.3
- C) 0.5
- D) None of these

Q19 What is the sum of the first 98 terms of the sequence?

$1, 2, 3, 2, 1, 2, 3, 2, 1, 2, 3, 2, \dots$

- A) 196
- B) 200
- C) 195
- D) None of these

Q20 Suppose x is the average of p and 12, y is the average of $3p$ and 18, and z is the average of x , y , and z . What is the average of x and y ?

- A) $p + 7$
- B) $p + 8$
- C) z
- D) None of these

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Q21 For some positive integer β , the first 3 terms of a geometric progression are $2 - \beta$, $2\beta - 8$ and $10\beta - 34$. What is the value of fourth term?

- A) -1
- B) -2
- C) -4
- D) -8

Q22 Which of the following is the same as i^{100} ? Note $i = \sqrt{-1}$.

- A) -1
- B) 1
- C) i
- D) $-i$

Q23 The equation of a circle in the xy -plane is $x^2 + y^2 + 8x - 10y = -5$. What is the radius of the circle?

- A) $\sqrt{6}$
- B) 6
- C) 36
- D) None of these

Q24 In the (x, y) plane, which of the following statements are true?

- I. Line $x + y = 1$ is perpendicular to line $x - y = 1$.
- II. Lines $x + y = 1$ and $x - y = 1$ intersect each other on the y axis.
- III. Lines $x + y = 1$ and $x - y = 1$ intersect each other on the x axis.

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

Q25 The average (arithmetic mean) of 5 different integers is 100. If the largest integer is 120, what is the least possible value of the smallest integer?

- A) 6
- B) 16
- C) 26
- D) None of these

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Q26 Mursaleen can deliver three newspapers every minute. At this rate, how many newspapers can he deliver in 1.5 hours?

- A) 330
- B) 300
- C) 270
- D) None of these

Q27 If $x = 7 + \frac{1}{x}$, find the value of $x^4 + \frac{1}{x^4}$

- A) 119
- B) 47
- C) 123
- D) None of these

Q28 If n is a positive integer such that $\frac{n!}{(n-2)!} = 756$, find n .

- A) 26
- B) 27
- C) 28
- D) 29

Q29 If $x:y = 7:6$ and $y:z = 8:5$, what is the ratio of $x:z$?

- A) 9:5
- B) 28:15
- C) 7:5
- D) 3:4

Q30 On a certain multiple-choice test, 5 points are awarded for each correct answer, and 4 points are deducted for each incorrect or unanswered question. Zakia received a total score of 10 points on the test. If the test has more than 100 questions, how many questions are on the test?

I. 110 II. 114 III. 119

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

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Q31

$$(4)^{-2}(16)^{-0.5}(256)^{-0.25} =$$

- A) $(4)^{-4}$
- B) $(16)^{-3}$
- C) $(256)^{-2}$
- D) None of these

Q32 It is possible to draw a triangle with sides of lengths

- I. 2, 8, 9 II. 2, 5, 8 III. 3, 4, 5

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

Q33 $6x + y = -10$

$$Y - x = 18$$

What is the solution (x, y) to the system of equations above?

- A) $(-3, 8)$
- B) $(3, -28)$
- C) $(28, -10)$
- D) $(-4, 14)$

Q34 Asghar drove 10 KM west, 12 KM north, 8 KM east, and 4 more KM north. How many KM was Asghar from his starting point?

- A) 34
- B) 16
- C) $2\sqrt{65}$
- D) None of these

Q35 Which of the following is an equation of a circle in the xy -plane with center $(1, 2)$ and passing through the point $(2, 3)$.

- A) $(x - 1)^2 + (y + 2)^2 = 2$
- B) $(x - 1)^2 + (y - 2)^2 = \sqrt{2}$
- C) $(x - 1)^2 + (y - 2)^2 = 2$
- D) $(x - 1)^2 + (y + 2)^2 = \sqrt{2}$

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Q36 The inequality $|3x - 4| > |3x + 10|$ must be true in which one of the following cases?

I. $x < -1$ II. $x > 1$ III. $-1 < x < 1$

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

Q37 $7x = 4y$

$$y = x^2 - 9$$

How many ordered pairs (x, y) satisfy the system of equations shown above?

- A) 0
 B) 1
 C) 2
 D) Infinitely many

Q38 A line in the xy -plane passes through the point $(1, 2)$ and has a slope of $\frac{2}{3}$. Which of the following points lies on the line?

- A) $(3, 2)$
 B) $(2, 3)$
 C) $(2, 1)$
 D) $(4, 4)$

Q39 Which of the following is equivalent to $144x^4 + 72x^2y^2 + 9y^4$

- A) $(144x^2 + 9y^2)^2$
 B) $9(4x^2 + y^2)^2$
 C) $(12x^2 + 9y^2)^2$
 D) None of these

Q40 Which of the following is an equivalent form of the equation of the parabola, $y = -x^2 + 6x - 5$, from which the coordinates of vertex A can be identified as constants in the equation?

- A) $y = -(x - 1)(x - 5)$
 B) $y = -x(x + 6) - 5$
 C) $y = 4 - (x - 3)^2$
 D) None of these

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Q41 A cube has a volume of 64 cubic centimeters. What is its total surface area?

- A) 48 centimeter
- B) 96 centimeter
- C) 192 centimeter
- D) None of these

Q42 If $f(n) = n^2 + n + \sqrt{n}$, where n is a positive integer, which of the following would be a value of $f(n)$?

- I. 10 II. 22 III. 93

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

Q43 If $y = \alpha x^2$, where α is a constant, and $y = 4$ when $x = 8$, what is the value of x when $y = 12$?

- I. 192 II. $8\sqrt{3}$ III. $-8\sqrt{3}$

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

Q44 In the xy -plane, the graph of function f has x -intercepts at -4 , -2 , and 2 . Which of the following could define f ?

- A) $f(x) = (x + 4) + (x^2 - 4)$
- B) $f(x) = (x + 4)(x^2 - 4)$
- C) $f(x) = (x - 4)(x^2 - 4)$
- D) None of these

Q45 For what value(s) of x is the function $h(x) = \frac{1}{(x-3)^2 + 2(x-3) - 8}$ is undefined?

- I. -1 II. 3 III. 5

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

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Q46 What is 15% of $\frac{8}{5}$, expressed as a percentage?

- A) 23%
- B) 24%
- C) 25%
- D) 26%

Q47 Jamil and Karim play in a basketball game. If the ratio of points scored by Jamil to points scored by Karim is 5 to 4, which of the following could NOT be the total number of points scored by the two boys (it may please be noted that during the game only integer points are earned by the players)?

- A) 9
- B) 18
- C) 21
- D) 27

Q48 If $(ax + 4)(4x + b) = 4x^2 + cx + 16$ for all values of x , then the value of c will be

- A) 16
- B) 20
- C) 4
- D) 1

Q49 Consider the function $f(x) = bx + 4$, where b is a constant. If $f(10) = f(20)$, find the average of $f(10)$ and $f(20)$

- A) 1
- B) 2
- C) 3
- D) $f(15)$

Q50 What is the equation of a line that has a point $(1, 4)$ and is perpendicular to the y -axis

- A) $x = 4$
- B) $y = 4$
- C) $x = 1$
- D) $y = 1$

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English s M.C.Q's

No. of Questions: 45 (from 51 to 95)

Time Allowed: 50 Minutes

Questions on Page Numbers: 11 To 21

Negative markings: **Yes**

Grammar and Vocabulary Section

Q. 51-66

Please choose the correct option to fill in the blank.

In my younger and more vulnerable years my father gave me some advice that _____ (51) turning over in my mind ever since.

“Whenever you feel like criticizing any one,” he told me, “just remember that all the people in this world _____ (52) the advantages that you’ve had.”

He _____ (53) any more, but we’ve always been unusually communicative in a reserved way, and I understood that he meant a great deal more than that. In _____ (54), I’m inclined _____ (55) reserve all judgments, a habit that has opened up many curious natures to me and _____ (56) made me the victim of not a few veteran bores. The abnormal mind is quick to detect and attach itself to this quality _____ (57) it appears in a normal person, and so it came about that in college I was _____ (58) accused of being a politician, because I was _____ (59) to the secret griefs of wild, unknown men. Most of the confidences were _____ (60) — frequently _____ (61) sleep, preoccupation, or a hostile levity when I realized _____ (62) some unmistakable sign that an intimate revelation was quivering on the horizon; for the intimate revelations of young men, or at least the terms in which they express them, are usually plagiaristic and _____ (63) _____ (64) obvious suppressions. _____ (65) judgments is a matter of infinite hope. I am still a little afraid of missing something if I forget that, as my father snobbishly suggested, and I snobbishly repeat, a sense of the fundamental decencies is parcelled out _____ (66) at birth.

51)

- a) I shall be
- b) I will be
- c) I have been
- d) I had been

52)

- a) likely have had
- b) have not had
- c) perhaps have had
- d) will not have

53)

- a) insisted on saying
- b) didn't say
- c) did say
- d) doesn't say

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54)

- a) consequence
- b) theory
- c) cognito
- d) certainty

55)

- a) on
- b) concerning
- c) towards
- d) to

56)

- a) questionably
- b) dubiously
- c) unlikely
- d) also

57)

- a) when
- b) where
- c) why
- d) wherewithal

58)

- a) justly
- b) unjustly
- c) accurately
- d) legitimately

59)

- a) oblivious
- b) unaware
- c) privy
- d) insensible

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60)

- a) provoked
- b) solicited
- c) unsought
- d) demanded

61)

- a) I have feigned
- b) I would've feigned
- c) I shall've feigned
- d) I can have feigned

62)

- a) above
- b) on
- c) in
- d) by

63)

- a) mars
- b) marring
- c) mar
- d) marred

64)

- a) on
- b) by
- c) in
- d) an

65)

- a) reserving
- b) reserve
- c) reserved
- d) reserves

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66)

- a) inconceivably
- b) unequally
- c) inequally
- d) conceivably

Q. 67-71**Please choose the correct option**

On February 19th, in the shadow of the annual meeting of the American Association for the Advancement of Science, Boston's Copley Square saw a small but _____ (67) pro-science rally by those worried about what the newly _____ (68) President Trump might mean for the world's scientific superpower. "There is no Plan(et) B" read one sign. That is true, for now. But although _____ (69) have yet to discover a twin of the Earth, they have found several close cousins. On February 22nd, a team of researchers led by Michaël Gillon, from the University of Liège, in Belgium, announced several more. As they outline in *Nature*, Dr Gillon's team believe that seven _____ (70) Earth-sized worlds circle TRAPPIST-1, a tiny star that lies around 40 light years from Earth (the star's rather striking name refers to the TRAPPIST telescope, in Chile, which did much of the planet-hunting work). Several other solar systems have been found with Earth-like planets, but to find seven such worlds orbiting a single star is _____ (71).

67)

- a) determined
- b) indeterminate
- c) definite
- d) indefinite

68)

- a) installed
- b) unhinged
- c) uneasy
- d) unstalled

69)

- a) academics
- b) anthropologists
- c) astronomers
- d) archaeologists

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70)

- a) vaguely
- b) sketchily
- c) imprecisely
- d) roughly

71)

- a) unsurprising
- b) unprecedented
- c) expected
- d) banal

Q. 72-76**Please choose the correct option**

No issue _____ (72) America quite like immigration. Many politicians of both parties favour a “comprehensive reform” that would secure the border, allow a _____ (73) number of newcomers in and offer a path to citizenship for illegal migrants already _____ (74) the country. However, restrictionists have killed every reform bill since 1986. Meanwhile, facts _____ (75) the ground have evolved rapidly. Population flows from Mexico to America surged from the early 1990s to the mid-2000s. The number of _____ (76) immigrants in America rose from 3.5m in 1990 to a high of 12.2m in 2007, on the eve of the financial crisis. Since then, this figure has fallen slightly: net migration from Mexico to the United States is now negative.

72)

- a) engulfs
- b) divides
- c) submerges
- d) plunges

73)

- a) realistic
- b) inordinate
- c) idealistic
- d) immoderate

74)

- a) betide
- b) beside
- c) outside
- d) inside

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75)

- a) in
- b) on
- c) from
- d) by

76)

- a) unsanctioned
- b) inauthorised
- c) unauthorised
- d) informal

Q. 77-86

Please choose the correct option.

In the months following Donald Trump's election, Russian media fell hard for their _____ (77) new beau. Television anchors and columnists _____ (78) Mr Trump's promises to rebuild relations with Russia. Dmitry Kiselev, the Kremlin's chief propagandist, fawned over Mr Trump on his flagship Sunday-night show, declaring the new American president to be a "muzhik", or a "real man"—a sharp shift for a programme that had spent years _____ (79) anti-Americanism. (His praise became so _____ (80) that a fringe nationalist group even staged a protest accusing Mr Kiselev of "Trumpomania".) In January, Mr Trump was mentioned more often in the Russian press than Vladimir Putin himself.

Yet just as suddenly as he appeared, the _____ (81) image of Mr Trump has largely _____ (82) from Russian television sets. In the past week, as the Trump administration has issued increasingly _____ (83) signals on its policy toward Russia, the country's news programmes have overlooked his activities, and commentators have taken up a decidedly more _____ (84) spirit. The firing of the Russia-friendly Michael Flynn as national security adviser may have caused some _____ (85) in the Kremlin. So too did the White House's statement last week that it _____ (86) Russia to "return" Crimea to Ukraine.

77)

- a) brash
- b) temperate
- c) timorous
- d) reticent

78)

- a) lambasted
- b) castigated
- c) lauded
- d) chastised

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79)

- a) croaking
- b) stoking
- c) brokering
- d) staking

80)

- a) effusive
- b) reclusive
- c) inclusive
- d) abusive

81)

- a) abundant
- b) redundant
- c) elephantine
- d) triumphant

82)

- a) tarnished
- b) brandished
- c) banished
- d) vanished

83)

- a) conflicting
- b) unstinting
- c) unflinching
- d) clear

84)

- a) skinflint
- b) skeptical
- c) skillful
- d) skittish

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85)

- a) conversation
- b) constipation
- c) consternation
- d) contraband

86)

- a) regretted
- b) excoriated
- c) expected
- d) unanticipated

Reading Comprehension Section

Q. 87 - 95**Choose the best answer for each passage.**

87. The recent spate of terrorist attacks across the country has brought into question the National Action Plan (NAP) and the need for military courts. After being lulled into a false sense of security with the military success of Operation Zarb-e-Azb, the nation is once again engulfed in insecurity while the government tries to find an easy 'fix' through another constitutional amendment reviving the military courts for another three years. Once again, the government wants us to believe that this time around they will actually move towards implementing judicial reforms, especially of the criminal judicial system, during the new three-year period of military courts.

The passage states that:

- a) Military courts lulled the country into a false sense of security
- b) the NAP lulled the country into a false sense of security
- c) the NAP was a success but Operation Zarb-e-Azb was not
- d) Operation Zarb-e-Azb was a success but the NAP was not

88.

Nowadays, traffic jams and congestion have become very usual in Pakistan, particularly in Lahore and Karachi. The reasons for this are many: the increasing number of vehicles on the roads, irresponsible driving, bottlenecks on the streets, construction work on roadsides, lack of implementation of traffic rules and protests and rallies on roads.

The primary purpose of the passage is:

- a) To provide reasons for traffic jams
- b) To provide reasons for noise pollution
- c) To explain why traffic jams are inevitable
- d) To explain that noise pollution is inevitable

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89.

We know that extremist thinking, the ongoing war against the state and its machinery and the contempt for the religious philosophy propounded by the Sufi mystics who spread the faith across the region, are all factors that contribute towards the massacres. But are we familiar enough with the thinking of people, teenagers and even children who are confused by what is happening? Yes, we read the social media posts, the expressions of outrage and agony. But most of these come from people we know – at least indirectly.

The primary purpose of this passage is to:

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

90.

Pakistan will turn 70 on August 14, 2017. It has been a tumultuous journey. Exciting. Adventurous. Unpredictable. Sometimes uplifting. Often heartbreaking. And, often, rash and dangerous. But never has there been a dull moment.

What category below describes what the author is doing:

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

91.

Some 70 years after it came into existence, Pakistan still struggles with issues of identity and ethnicity. World Mother Language Day observed globally this Tuesday – on February 21 – indicated some of the problems with discussions and debates held from many platforms on what constituted a mother language and what place it had compared to a national language. Recently a Senate Standing Committee on Law, Human Rights and Justice met to discuss two separate bills moved by parliamentarians on giving other language the same status as Urdu and counting them as national language. One bill suggested that Punjabi, Pashto, Sindhi and Balochi be given this status while the other recommended that Seraiki, Brahvi and Hindko also be included in this category. The issue of language is already being mentioned as one of the more sensitive issues that will come up during the census due to begin in a few weeks' time. Indeed the problems of language have persisted almost throughout Pakistan's history and contributed to the violent division of the nation in 1971. Many of the country's regional languages and dialects have faced either neglect or ridicule.

The passage indicates that:

- a) Language is a pecuniary issue
- b) Language is a polarizing issue
- c) Language is a pedestrian issue
- d) Language is a piddling issue

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92.

The annual Munich Security Conference, like the gatherings at Davos and Bonn, is a jamboree of self-congratulation for the world's political and business elite. It is at events such as these that the Western powers set the agenda for the rest of the world. But this time, the focus was on a man who wasn't even present at the event: US President Donald Trump. More than any other individual, Trump has threatened to shake up the comfortable status quo of the West. During his campaign, Trump repeatedly called Nato obsolete and threatened to pull out of the alliance. Many of his criticisms of Nato such as its confrontational attitude with Russia – a cold-war relic that acts as an enforcer of Western will around the world – were on point but, as is usually the case with Trump, he is making things worse.

The passage implies that

- a) Donald Trump has abolished Nato
- b) The Munich Security Conference does not cater to the majority of the world's population
- c) Davos and Bonn are more successful than Munich
- d) Russia is a cold-war relic

93.

The PSL is essential for the long-term health of Pakistan cricket. We need it to compete with the likes of India and Australia, who have many years of progress on us with their long-running IPL and Big Bash League, in the most popular format of the game. The PSL will ideally lead to the modernisation of cricket in Pakistan, not just by bringing in more money but through the professionalism of the coaches and data analysts being brought in. If the PCB and the government feel ready to stage a match in Lahore then it should go ahead; the country will be grateful for an opportunity to see our heroes in such a high-profile final.

The purpose of this passage is to:

- a) conclude
- b) entertain
- c) inform
- d) persuade

94.

Next month's census is going to be the blueprint for public policy over the next decade and as such it is important that as many details as possible are collected. Funds for everything from welfare payments to health and education will be apportioned and allocated on the basis of the census. The effectiveness of such programmes is dependent on knowing exactly where money needs to be spent. This is why the medical community is suggesting the government collect data on five major diseases — diabetes, hypertension, obesity, hepatitis and cardiac illness — in the census. A petition filed in the Supreme Court has also asked for the census to include information about disabled people. The government and Supreme Court should follow through since collecting and analysing information on physical and mental health issues will give it a better idea of emerging health problems and reveal if there are regional differences in the incidence of these problems, thus allowing it to distribute resources based on that data. Diabetes, in particular, is believed to be disproportionately prevalent in Pakistan, with more than seven percent of the population thought to suffer from the disease. But such figures are only a rough estimation since no systemic data has been collected. The census is the best opportunity to rectify that.

(go on to the next page)

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

The passage demonstrates that:

- a) Health problems are endemic to the region
- b) Efficient education spending can be determined through the census
- c) Efficient healthcare spending can be determined through the census
- d) Diabetes has been eradicated in Pakistan

95.

Almost 20 per cent of the food made available to consumers worldwide is lost through over-eating or wastage, according to a new study. The world population consumes around 10 per cent more food than it needs, while almost nine per cent is thrown away or left to spoil, researchers said. Efforts to reduce the billions of tonnes lost could improve global food security - ensuring everyone has access to a safe, affordable, nutritious diet - and help prevent damage to the environment.

The theme of the passage can be best summarized by the following proverb

- a) Waste not, want not.
- b) No man is an island
- c) Hope for the best but prepare for the worst
- d) There's no such thing as a free lunch.

This is the END of part 3. Please, wait for part 4 (writing one essay).
