

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

English M.C.Q's

No. of Questions: 45 (from 1 to 45)
 Questions on Page Numbers: 1 To 8

Time: 45 Minutes
 Negative markings: Yes

Questions 1-3:

The given paragraphs are in jumbled order. Rearrange the sentences in the proper order by choosing the most appropriate sentence sequence from the answer choices.

1.
 - a. You can also try planting mint around the house foundations.
 - b. Other effective organic repellents include cream of tartar, borax, powdered sulfur, and oil of cloves.
 - c. For an effective organic ant repellent, scatter talcum powder liberally around house foundations and known points of entry, such as doors and windows.
 - d. These techniques would surely help you.
 - A. a, b, d, c
 - B. c, d, b, a
 - C. c, b, a, d
 - D. d, c, a, b

2.
 - a. Over the previous five years Anglo American had suffered nearly 200 fatalities.
 - b. My priority was to see how things worked with my own eyes, so I began a tour of our operations, visiting mines in Australia, Chile, Colombia, Venezuela, and South Africa.
 - c. I fundamentally rejected that assumption.
 - d. Some company veterans insisted that deaths were inevitable at such a large mining company, because ours is simply a dangerous business.
 - A. b, d, c, a
 - B. d, c, a, b
 - C. a, d, c, b
 - D. b, a, c, d

3.
 - a. But we've discovered another, subtler source of inequality: Women often don't get what they want and deserve because they don't ask for it.
 - b. Women continue to earn less, on average, for the same performance, and they remain underrepresented in top jobs.
 - c. Research has shown that both conscious and subconscious biases contribute to this problem.
 - d. Men and women are still treated unequally in the workplace.
 - A. c, b, d, a
 - B. b, d, c, a
 - C. b, c, d, a
 - D. d, b, c, a

For questions 4-7, select the best version (A, B, C or D) of the underlined part of the sentence.

4. Go to sleep with your blinds at least halfway open when the sun flows in your brain will slow its melatonin production and start generating adrenaline, so you'll be half-awake by the time.
 - A. at least halfway open, when the sun flows in your
 - B. at least halfway open. When the sun flows in, your
 - C. at least halfway open: When the sun flows in, your
 - D. at least halfway open when the sun flows in your

(go on to the next page)

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5. If you've ever dropped your iPhone in the pool, run it through the washing machine or have it slip out of your hands and into the toilet you know the meaning of the word "panic."
- A. the washing machine, or have it slip out of your hands and into the toilet, you
 B. the washing machine or have it slip out of your hands and into the toilet: you
 C. the washing machine or have it slip out of your hands and into the toilet - you
 D. the washing machine, or have it slip out of your hands and into the toilet: you
6. If you want a pedicure book the first appointment of the day when the equipment is cleaner.
- A. pedicure. Book the first appointment of the day, when
 B. pedicure, book the first appointment of the day: when
 C. pedicure- book the first appointment of the day, when
 D. pedicure, book the first appointment of the day when
7. Oprah Winfrey, TV legend and CEO of Harpo Productions told graduates to dream big and always do the right thing.
- A. Productions, told graduates to dream big and "always do the right thing."
 B. Productions, told graduates to dream big and "always do the right thing".
 C. Productions: told graduates to dream big and, always do the right thing.
 D. Productions "told graduates to dream big and always do the right thing".

For questions 8-22, decide which answer (A, B, C or D) best fits each blank.

I had just traded up from my little-girl bike with the banana seat to a big-girl green six-speed. Since my cousin Gabby didn't have a bike with her, she walked next to me. I 8. _____ when we were a few houses down the street on Glenwood Road, Gabby would 9. _____ the newspaper rack over the back tire.

Mom knew exactly what I was thinking. "Don't ride that bike with Gabby on the back," she said. "It's too dangerous. You could kill yourself. Take turns."

I 10. _____, but was thinking, *I can handle this.*

A few minutes later, I hooked a right on the 11. _____ road. "Jump on the back," I told Gabby.

I pedaled 12. _____ as we tore downhill, laughing as the wind 13. _____ through our hair. It was 14. _____, until the handlebar started vibrating and the bike wobbled. The front tire 15. _____ into a drainage ditch and I sailed over the bike, still holding the handlebar.

For a second, I was flying. Then my face, hands, and knees 16. _____ into the pavement.

The pain in my mouth was 17. _____, and I tasted blood. I felt around with my tongue and discovered a bloody 18. _____ in the front of my mouth. My tooth! I turned towards Gabby who was on the ground, holding her knee and 19. _____. Once we looked at each other, we started to wail. WAAAAH!!!!!!

Seconds later, it seemed, my mom's car screeched to a stop next to us.

I wanted Mom to say, "Oh, my poor sweetheart! Let me hug you and everything will be fine."

Mom 20. _____ the car door.

"What have you done to your face? Vanessa, look what you've done!"

(go on to the next page)

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Mom wasn't the huggy, touchy, "I love you, sweetie" type. Sometimes, I thought Mom was being **21.** _____. But in her own way, she was holding me **22.** _____ than I could understand—she was teaching me the lesson I needed. *You did it—deal with it, learn from it. One day, the consequences will be greater and I won't be there to help you. Figure it out, Vanessa.*

8.
 - A. figured
 - B. found
 - C. reckon
 - D. felt
9.
 - A. mount
 - B. climb on
 - C. board
 - D. jump on
10.
 - A. consented
 - B. nodded
 - C. affirmed
 - D. jiggled
11.
 - A. round-shaped
 - B. semi-circular
 - C. straight
 - D. crescent-shaped
12.
 - A. energetically
 - B. at high speed
 - C. furiously
 - D. feverishly
13.
 - A. whipped
 - B. thrashed
 - C. passed
 - D. lashed
14.
 - A. exhilarating
 - B. elating
 - C. enlivening
 - D. invigorating
15.
 - A. slammed
 - B. smashed
 - C. banged
 - D. collided
16.
 - A. smashed
 - B. crashed
 - C. collided
 - D. banged
17.
 - A. unbearable
 - B. awful
 - C. agonizing
 - D. excruciating

(go on to the next page)

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18. A. gap
B. whole
C. hole
D. ditch
19. A. moan
B. moaning
C. grouse
D. grousing
20. A. closed
B. banged
C. slammed
D. smashed
21. A. feelingless
B. un feeling
C. unfeeling
D. feeling less
22. A. closer
B. tighter
C. tight
D. close

Questions 23-28 comprise a set of two sentences each. Read the sentences, and then choose the best answer (A, B, C, or D) to the question.

23. Just one misspelling, grammatical error, or typo makes you look foolish. It also makes you look disrespectful to the recipient.

What does the second sentence do?

- A. It gives an example.
 - B. It reinforces the opinion.
 - C. It proposes a solution.
 - D. It states an effect.
24. The illegal kidney trade in Pakistan has reached such dimensions that eliminating it is a difficult task. For at least the past decade, this country — the cities of Lahore and Rawalpindi particularly — has been a destination for medical ‘tourism’, attracting people who hope to have a kidney transplant faster and more cheaply than elsewhere.

How are the two sentences related?

- A. The second reinforces what is stated in the first.
 - B. The second explains what is stated in the first.
 - C. The second expands on the first.
 - D. The second draws a conclusion about what is stated in the first.
25. A British soldier has been killed by small arms fire while on patrol in Afghanistan, the defence ministry said on Sunday. The soldier, from 3rd Battalion, The Yorkshire Regiment, was working in the south of Nahr-e Saraj district in Helmand Province when he came under attack.

What does the second sentence do?

- A. It cancels the meaning of the first.
- B. It provides an example of the first sentence.
- C. It adds more detail to the first sentence.
- D. It offers an exception to the information given in the first sentence.

(go on to the next page)

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

26. Even after decades of cooperation in business and politics, America and Japan still trip over a seemingly simple concept: the apology. Neither culture appears to fully understand what the other means or expects.

What does the second sentence do?

- A. It states the cause of the first.
- B. It compares.
- C. It draws a conclusion.
- D. It emphasizes what is stated in the first.

27. Social networks in general, and Facebook in particular, have a vast trove of data encompassing everything from users' entertainment preferences to locations. With the help of some sophisticated statistical models, other people or companies can find out and predict a lot more about you than you might imagine, even if your profile is private — or even nonexistent.

How are the two sentences related?

- A. The second sentence explains the meaning of the first.
- B. The second sentence explains the effect.
- C. The second sentence proposes a solution.
- D. The second sentence contradicts the first.

28. We parents pass on all kinds of traits to our kids, from our hair and eye color to our love of slapstick comedy or chocolate ice cream. One characteristic we surely *don't* want to hand down to our children, however, is our own anxiety about a particular school subject.

What does the second sentence do?

- A. It cancels the meaning of the first.
- B. It provides an example of the first sentence.
- C. It adds more detail to the first sentence.
- D. It offers an exception to the information given in the first sentence.

For questions 29-39, decide which answer (A, B, C or D) best fits each blank.

Women are less likely than men to negotiate for themselves for several reasons. First, they often are socialized from an early age not to promote 29. _____ own interests and to focus instead on the needs of others. The messages girls 30. _____, from society in general, 31. _____ be so powerful that when they grow up they may not realize that they've internalized this behavior, or they may realize it but not understand how it 32. _____ their willingness to negotiate. Women tend to assume that they 33. _____ be recognized and rewarded 34. _____ working hard and doing a good job. Unlike men, they 35. _____ taught that they can ask for more.

Second, many companies' cultures penalize women when they try to negotiate — further discouraging them from doing so. Women 36. _____ assertively pursue their own ambitions and promote their own interests may be 37. _____ as pushy. They frequently see their work devalued and find 38. _____ ostracized or excluded from access to important information. These responses from their colleagues and supervisors may not be conscious or part of any concerted effort to hold women back. More typically, they're a product of society's ingrained expectations about how women 39. _____ act.

29.

- A. there
- B. their
- C. its
- D. her

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30.
 A. recieve
 B. receive
 C. recieves
 D. receives
31.
 A. would
 B. shall
 C. can
 D. must
32.
 A. affect
 B. effect
 C. affects
 D. effects
33.
 A. shall
 B. might
 C. will
 D. could
34.
 A. by
 B. from
 C. upon
 D. for
35.
 A. isn't being
 B. aren't being
 C. hasn't been
 D. haven't been
36.
 A. that
 B. which
 C. whom
 D. who
37.
 A. named
 B. labeled
 C. identified
 D. marked
38.
 A. themselves
 B. theirselves
 C. thereselves
 D. them
39.
 A. should
 B. would
 C. can
 D. must

Q 40-42 are based on the following passage.

Compulsory education signified a massive intervention by the educated and the affluent in the private lives of the poor, and it is clear that many working-class families initially resisted. In 1882 Yarra Park had 1742 children on its rolls and an average attendance of a mere 872. And while truancy rates fell over the next thirty years, many Edwardian children were spectacular truants, often aided and abetted by parents who resented the schools that sought to deprive them

(go on to the next page)

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of their children's labour and company. Many parents saw little value in education that, in their view, wasted time on subjects and skills that were not relevant to paid work. The very poor needed their children in the workforce as early as possible.

But as compulsory attendance became a fact of life, acceptance of the authority of the school grew, because working-class parents came to realise that their children's best hope of escape from poverty lay in education. Nonetheless, some of the Victorian and Edwardian parents who resisted the school's appropriation of their children's time dimly perceived, perhaps, that it was an attack on the autonomy of the family. For all the benefits of the increasing role of the Welfare State and the explosion of the helping professions, there have been some losses among the multitude of gains. Poverty and helplessness have not been abolished, only mitigated. People and families in need have lost some of their autonomy and dignity as politicians, bureaucrats and professionals diagnose and decide for them without asking what they would like. Successful protest through the ballot box only replaces these decision makers with another team who are still politicians, bureaucrats and professionals. And it has been the people of the working class who are least equipped to defend themselves against the modern policing of the family. Their poverty prevents them from making private arrangements to service their needs; their lack of confidence inhibits them from battling the indifference of politicians and bureaucrats; their ignorance intimidates them in the face of doctors, social-workers and, of course, teachers.

40.

'In 1882 Yarra Park had 1742 children on its rolls and an average attendance of a mere 872.'

The writer produces this statistic to suggest that:

- A. parents were too ignorant to realise the benefits of schooling for their children.
- B. formal education was regarded as unimportant by a large proportion of families.
- C. working-class families mounted a campaign against the intrusion of the educated and the affluent.
- D. truant children were exceptionally cunning at evading both their parents and the school authorities.

41.

In the writer's view, the impact of the Welfare State on working-class families has been:

- A. beneficial, although it has weakened their independence.
- B. subtle, although it has radically changed the class structure.
- C. disastrous, because it has worsened their material situation.
- D. negligible, since the benefits have all been in favour of the middle-class.

42.

The writer suggests that for working-class people the power of the vote:

- A. is useless because all politicians are corrupt and self-interested.
- B. has given them the opportunity to put social reform on the agenda.
- C. does not represent any real opportunity to increase their autonomy.
- D. has had a greater impact on their welfare than compulsory education.

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Q 43- 45 are based on the following passage.

The best way to grasp the human significance of photography is not to think of camera, film and tripod as something external to human nature, but as evolutionary developments — as much a part of human nature as one's thumb. A deficiency existed, of sorts, in the way our sensory and information storing capacities functioned. They had limits, and photography was one way to overcome those limits. The limit in human functioning is simply this: though we can see things very well, we cannot reliably bring up the image for repeated viewing. Instead, visual images are incompletely stored in memory, often in a highly schematic form, and subject to decay and distortion.

Moreover, memory is private: it does not directly take the form of an external object that others can see. And when the person dies, all of the images stored in his or her brain vanish. It is the perishability of our visual experience that led humankind to seek to fix it by placing it on a more permanent record, more available to public scrutiny than the brain. A first solution to this problem came about through the development of skills in painting and drawing. Humankind had the capacity to depict what was seen by representing those form and colours on an external surface, such as the wall of a cave, or papyrus, silk or canvas. But it required a special talent to do this, which only a few people possessed.

43.

The limitation in human functioning referred to in the first paragraph is best described as an inability to:

- A. view things accurately enough for all purposes.
- B. process instantaneously a complete visual image.
- C. store a detailed image of something one has seen.
- D. recall visual material accurately, particularly over a period of time.

44.

The writer uses the example of a person's thumb and evolutionary development (lines 2–3) to make the point that the camera

- A. has replaced part of humankind's sensory capacities.
- B. is essentially an extension of humankind's sensory capacities.
- C. has utilised sensory capacities in humankind which were previously undeveloped.
- D. has been so widely accepted by humankind that it has become a crutch on which we are dependent.

45.

The additional limitations of memory described in lines 9–12 relate to humankind's

- A. need for self-expression.
- B. insistence on the right to privacy.
- C. desire to communicate observations.
- D. need to keep detailed records on individuals.

(Stop. Before turning the next page, wait for the invigilator's Signal.

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Mathematics M.C.Q's

No. of Questions: 45 (from 46 to 90)

Time: 70Minutes

Questions on Page Numbers: 9 To 15

Negative markings: Yes

Q46 How many numbers between 20 and 99 are equal to 6 times an integer?

- A. 3
- B. 13
- C. 16
- D. 17

Q47 Which of the following is equivalent to $\frac{x^2-16}{2x^2-3x-20}$?

- A. $\frac{x+4}{2(x-4)}$
- B. $\frac{x-4}{2(x+4)}$
- C. $\frac{x+4}{2(x+5)}$
- D. $\frac{x+4}{2x+5}$

Q48 Half the people on a bus get off at each stop after the first, and no one gets on after the first stop. If four persons get off at stop number five, how many people got on at the first stop?

- A. 128
- B. 64
- C. 32
- D. 16

Q49 Suppose $\frac{1}{a^2} - \frac{1}{b^2} = \frac{1}{c}$, $ab = \sqrt{c}$, $c > 0$, and $a < b$. Then average value of a and b is

- A. $\frac{1}{2}$
- B. $\frac{1}{2(b-a)}$
- C. $\frac{b-a}{2}$
- D. None of these

Q50 At the Top Furniture Factory, Baber bought three chairs for Rs 3999 each and a coffee table for Rs 5100. He paid $\frac{1}{3}$ of the total cost at the time of purchase and the balance in 8 equal monthly installments. What was the amount of each month's payment?

- A. Rs 1500.00
- B. Rs 1424.75
- C. Rs 1200.25
- D. None of these

Q51 What is the area of an equilateral triangle whose sides are 10?

- A. $12.5\sqrt{3}$
- B. $25\sqrt{3}$
- C. $50\sqrt{3}$
- D. None of these

(go on to the next page)

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

Q52 If $|X - 4| > 6$, which of the following could be the value of X ?

- I. 10
 - II. 11
 - III. -2
- A. I only
B. II only
C. III only
D. I and II only
-

Q53 If $f(x) = x^2 + 2x$, what is $f(x-1)$?

- A. $x^2 - 3$
B. $x^2 - 1$
C. $x^2 + 1$
D. $x^2 + 3$
-

Q54 If $f(x) = x^3 - 3^x$, what is the value of $f(2y)$?

- A. $2(y^3 - 3^y)$
B. $8y^3 - 9^y$
C. $2y^3 - 3^y$
D. $2f(y)$
-

Q55 Which of the following number is in the domain of $f(x) = \frac{1}{\sqrt{x^2 - 9}}$?

- A. -1
B. -2
C. -3
D. -4
-

Q56 If 60% of x is equal to 80% of y , which of the following must be true?

- A. $x = \frac{8}{3}y$
B. $x = \frac{3}{4}y$
C. $x = \frac{4}{3}y$
D. None of these
-

Q57 Which of the following is NOT in the range of $f(x) = \frac{1}{1 - |x|}$?

- A. 2
B. 1.5
C. 1
D. 0.5
-

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BY CROSSING THE CORRESPONDING LETTER

Q58 The operation Φ is defined as follows: For any positive numbers q and x , $q \Phi x = \sqrt[3]{q} - \sqrt{x}$. Which of the following is an integer?

- A. $9 \Phi 9$
- B. $67 \Phi 9$
- C. $4 \Phi 4$
- D. None of these

Q59 If $x + 2y = a$ and $x - 2y = b$, which of the following is an expression for $\frac{x}{y}$?

- A. $2\left(\frac{a+b}{a-b}\right)$
- B. $2\left(\frac{a-b}{a+b}\right)$
- C. 1
- D. None of these

Q60 Which of the following is a solution of the equation $|x - 2| = |2x + 1|$?

- I. -3
- II. $\frac{1}{3}$
- A. I only
- B. II only
- C. I and II only
- D. None of these

Q61 What is the volume, in cubic inches, of a cube whose total surface area is 96 square inches?

- A. 216
- B. 128
- C. 64
- D. 32

Q62 If circle O has its centre at $(2, -2)$, and line L is tangent to circle O at origin, what is the slope of L ?

- A. -1
- B. 1
- C. 2
- D. -2

Q63 If $x^2 - 7x = 144$, and y and n are integers such that $y^n = x$, which of the following CANNOT be a value for y ?

- A. -9
- B. 16
- C. 4
- D. -3

Q64 In a certain business school, Fall Semester commences on the third Monday in August. What is the earliest date that Fall semester commences in any given year?

- A. August 16
- B. August 15
- C. August 14
- D. August 13

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BY CROSSING THE CORRESPONDING LETTER

Q65 In the standard xy -coordinate plane, the midpoint of the segment joining the points A and B is (10, 20). If the coordinates of point A are (6, 12), what are the coordinates of point B?

- A. (12, 6)
- B. (14, 28)
- C. (20, 10)
- D. None of these

Q66 What is the value of n if $3^{2n-2} = 243$?

- A. 2
- B. 2.5
- C. 3
- D. 3.5

Q67 When z is divided by nine, the remainder is three. What is the remainder when $3z$ is divided by nine?

- A. 3
- B. 2
- C. 1
- D. 0

Q68 The slope of the line passing through the point (5, 5) is $\frac{6}{5}$. All of the following points could be on the line except

- A. (10, 11)
- B. (17, 15)
- C. (15, 17)
- D. (-5, -7)

Q69 If $g(x) = (x - 4)^2$ and $h(y) = (y + 4)^2$, then what is the value of $g(h(-1))$?

- A. 25
- B. 841
- C. 9
- D. None of these

Q70 If the average of 20, 30, 40, $50 - x$, $10 + 2x$ is 87, what is the value of x ?

- A. 265
- B. 275
- C. 285
- D. 295

Q71 If $x^2 - 5x + \alpha = 0$, and the difference of the two possible values of x is three, then the value of $|\alpha|$ is,

- A. 5
- B. 4
- C. 3
- D. 2

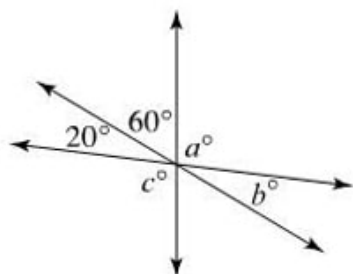
Q72 For the equations $\frac{a^x}{a^y} = a^{-10}$ and $(a^y)^3 = a^{-x}$, if $a > 1$, what is the value of x ?

- A. 2.5
- B. -7.5
- C. 2
- D. 1

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Q73 In the adjacent figure, what is the value of $b + c$?

- A. 100
- B. 110
- C. 120
- D. 130



Q74 If S is the sum of the integers from 51 to 150 and T is the sum of the integers from 151 to 250, what is the value of $S - T$?

- A. 100,000
- B. 10,000
- C. -100,000
- D. -10,000

Q75 The sum of five consecutive positive odd integers is w . In terms of w , what is the sum of the smallest and largest integers?

- A. $\frac{w-27}{5}$
- B. $\frac{w+27}{5}$
- C. $\frac{2w}{5}$
- D. $\frac{w+25}{5}$

Q76 If $3^x = y$ and $9^z = w$, then $yw =$

- A. 9^{2x+z}
- B. 3^{x+2z}
- C. 3^{2xz}
- D. None of these

Q77 If $2x - 3 < 4x - 9$, which of the following must be true?

- A. $x > -3$
- B. $x < -3$
- C. $x > 3$
- D. $x < 3$

Q78 What is the length of the line segment in the x - y plane with end points at $(-8, 0)$ and $(0, 6)$?

- A. 16
- B. 14
- C. 12
- D. 10

Q79 The average weight of a class of 30 students is 40 kgs. When the weight of the teacher is also included, the average weight increased by 1 kg. What is the weight of the teacher?

- A. 51 kgs
- B. 61 kgs
- C. 71 kgs
- D. None of these

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Q80 Of the three hundred students at Allama Iqbal College, exactly 40 play football and 60 play table tennis, and 25 play both. How many students neither play football nor table tennis?

- A. 125
- B. 175
- C. 225
- D. 250

Q81 Today is Sunday, what will it be 1000 days from now?

- A. Wednesday
- B. Thursday
- C. Friday
- D. Saturday

Q82 If $7x + y = 23$, and $x + 7y = 47$, find the value of $x - y$

- A. 4
- B. -4
- C. 24
- D. -24

Q83 If the average of four consecutive integers is W , which of the following must be true?

- I. One of the integers is equal to W .
 - II. The average of two of the four integers is W .
 - III. W is an integer.
- A. I only
 - B. II only
 - C. III only
 - D. I and II only

Q84 Which of the following points lies in the exterior of the circle whose diameter is 12 and whose centre is at the origin?

- A. (4, 4)
- B. (-4, 3)
- C. (-3, -5)
- D. (-4, -5)

Q85 If u and v are negative numbers whose product is 8, and if the larger number is $\frac{1}{5}$ of the smaller number, what is the value of $|u - v|$?

- A. $\frac{1}{5}\sqrt{10}$
- B. $\frac{8}{5}\sqrt{10}$
- C. $-\frac{8}{5}\sqrt{10}$
- D. None of these

Q86 Suppose p is chosen at random from the set $\{1, 2, 6, 11, 17\}$. What is the probability that p is prime?

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

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

Q87 The total weight of a tin and the cookies it contains is one KG. After $\frac{4}{5}$ of the cookies are eaten, the tin and the remaining cookies weigh 0.8 KG. What is the weight of the cookies in the tin?

- A. 0.75 KG
 - B. 0.25 KG
 - C. 0.5 KG
 - D. None of these
-

Q88 If h is increase by 12% and k is decreased by 15%, the resulting numbers will be equal. What is the ratio of k to h?

- A. $\frac{17}{23}$
 - B. $\frac{23}{17}$
 - C. $\frac{4}{5}$
 - D. None of these
-

Q89 Which of the following number is between $\frac{1}{11}$ and $\frac{1}{9}$?

- A. 0.12
 - B. 0.09
 - C. 0.08
 - D. None of these
-

Q 90 Six consecutive positive integers are each divided by 6 and their remainders are recorded. What is the sum of these remainders?

- A. 11
 - B. 13
 - C. 15
 - D. None of these
-

This is the end of Part 1 and Part 2. Please, wait for the Part 3 (two essay questions).
