

**ALL ANSWERS MUST BE GIVEN ON THE ANSWER SHEET**  
**BY CRSSOING THE CORRESPONDING LETTER**

**English M.C.Q's**

No. of Questions: 45 (from 1 to 45)  
 Questions on Page Nos: 1 To 6

Suggested Time: 45 Minutes  
 Negative markings: Yes

For questions 1-23, decide which answer (A, B, C or D) best fits each blank.

1 They have sold \_\_\_\_\_ dog.

- A there
- B their's
- C theirs
- D their

2 I don't mind \_\_\_\_\_ if you're tired.

- A to drive
- B drive
- C driving
- D to be driving

3 The carpenter told Sadia that he \_\_\_\_\_ come the next day.

- A was going to
- B will come
- C wants
- D is going to

4 You certainly wouldn't like to \_\_\_\_\_ in such bad company.

- A be seeing
- B be seen
- C have seen
- D see

5 If the books \_\_\_\_\_ last week, why haven't they been placed on the shelf?

- A have been catalogued
- B would have been catalogued
- C were catalogued
- D had been catalogued

6 In my opinion, film star Reema is \_\_\_\_\_ beautiful woman.

- A very
- B a very
- C extremely
- D an extremely

7 Hasan drove the car \_\_\_\_\_ the garage and left for work.

- A into
- B out
- C out of
- D outside

8 My opinion is that they don't know what to do and are merely playing \_\_\_\_\_ time.

- A to
- B for
- C at
- D in

9 You can tell just looking at their out-of-date equipment that the company is well \_\_\_\_\_ the times.

- A behind
- B across
- C under
- D outside

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10 Three responsibilities \_\_\_\_\_ a patent manager are to search out, identify, and assess patentable inventions and technologies.

- A to
- B with
- C on
- D of

11 Only after they had completed an exhaustive study \_\_\_\_\_ how to adapt the technology to the needs of our company.

- A did they understand to begin
- B did they begin to understand
- C they did begin to understand
- D to understand did they begin

12 Above-ground swimming pools have \_\_\_\_\_ the flexibility of being able to be moved from place to place but also the efficiency of using less water than standard in-ground pools.

- A that
- B all
- C in addition
- D not only

13 When purchasing a Valentine's Day gift, male customers, according to all surveys, tend to lean toward either a bouquet of red roses purchased online \_\_\_\_\_ a box of chocolates found at a local supermarket.

- A and
- B also
- C a
- D or

14 A retailer must be aware of not only the competition from local stores but also the vagaries of \_\_\_\_\_ and taste.

- A both fashion
- B some fashion
- C nor fashion
- D as well

15 Sibling confrontations containing the seeds of unrequited hostility can serve \_\_\_\_\_ familial difficulties lasting for years.

- A the creation of
- B to create
- C creating
- D that creates

16 Knowing \_\_\_\_\_ the alarm for an impending earthquake is a crucial problem for seismologists.

- A when to sound
- B to have sounded
- C that to sound
- D to sound that

17 \_\_\_\_\_ they are widely perceived as gentle creatures, hippopotamuses are responsible for more human deaths in Africa than any other animal.

- A Even though
- B Despite of
- C In spite of
- D Nonetheless

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- 18 The situation was \_\_\_\_\_ with stress and tension.
- A     fraught  
 B     manifest  
 C     blue  
 D     clandestine
- 19 The water was \_\_\_\_\_ and not fit for drinking.
- A     frivolous  
 B     wayward  
 C     obsequious  
 D     murky
- 20 I couldn't \_\_\_\_\_ what she was trying to explain.
- A     jettison  
 B     kindle  
 C     fathom  
 D     beckon
- 21 Our next-door neighbours \_\_\_\_\_ all night at their celebration.
- A     capitulated  
 B     revelled  
 C     capsized  
 D     haunted
- 22 The forest fire was \_\_\_\_\_ by a carelessly discarded cigarette.
- A     ignited  
 B     submerged  
 C     retired  
 D     forged
- 23 Our plans have \_\_\_\_\_ a lot. We are leaving in the morning.
- A     altered  
 B     replaced  
 C     changed  
 D     transformed

For questions 24-25, read the question and choose the answer (A, B, C or D) that uses the correct corresponding verb tense.

- 24 Did you see the show last night?
- A     No, because by the time I got there all the tickets had already been sold.  
 B     Yes, and it was one of the best shows I had ever seen.  
 C     Yes, but my seat was behind a pole so I couldn't barely see anything.  
 D     No, but I am hope to see it tonight.
- 25 Did you hear the weather forecast for tomorrow?
- A     Yes, it will to clear up by noon.  
 B     No, I wasn't listening to the radio.  
 C     Yes, they have said it will have snow.  
 D     No, but I think it had snowed.

For questions 26-28, choose the correct answer (A, B, C or D) to the question.

- 26 Which of the following sentences is punctuated correctly?
- A     Tahira bought three suits; seven earrings; and ten pairs of shoes.  
 B     We are expecting a thunderstorm this afternoon, therefore we have closed the school early.  
 C     Ahmed, the receptionist at my office, is a handsome fellow  
 D     I have never been so insulted: I think I will go home now.

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27 Which of the following sentences illustrates correct usage of articles and conjunctions?

- A Sadia lives on Shahab Street; however, she works on Sunset Boulevard.
- B I would eat a peach every day if I could, nor the doctor told me I couldn't.
- C Will Nasir play the piano or an harp at the concert.
- D Although Aisha is angry at them, neither her son and her father will be at the party.

28 Which of the following sentences is NOT punctuated correctly?

- A We only expect three things from our dog: loyalty, affection and tail wagging.
- B I need you to pick up several boxes of paperclips, pens and pencils; three pounds each of potatoes, carrots and peas; and my dry cleaning.
- C Mitthu, my parrot, squawked for an hour, before finally calming down.
- D All of the above are punctuated correctly.

For questions 29-33, choose the ANTONYM (A, B, C or D) of the word in *italics*.

29 Kamran's medical insurance is covered on a *group* policy.

- A HMO
- B workers
- C individual
- D public

30 Thorough cleaning *retards* the growth of bacteria.

- A limits
- B eliminates
- C prevents
- D encourages

31 Guests must park only in *designated* spaces.

- A unmarked
- B designed
- C distant
- D disintegrated

32 You might *retain* water if you use too much salt.

- A exclude
- B lack
- C reject
- D release

33 Carelessness can result in a *critical* injury.

- A embarrassing
- B insulting
- C trivial
- D painful

For questions 34-38, choose the sentence (A, B, C or D) with correct punctuation.

34

- A It may not be the correct part, but I bet that it works.
- B It may not be the correct part; but I bet that it works.
- C It may not be the correct part-but I bet that it works.
- D It may not be-the correct part-but I bet that it works.

35

- A Please contact me, if you have any questions.
- B Please contact me if you have any questions.
- C If you have any questions please contact me.
- D If you have any questions; please contact me.

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- 36
- A This is the point that Einstein made--you cannot fix a problem with the problem.
  - B This is the point that Einstein made, you cannot fix a problem with the problem.
  - C This is the point that Einstein made; You cannot fix a problem with the problem.
  - D This is the point that Einstein made: you cannot fix a problem with the problem.
- 37
- A A well made argument was presented for negotiating a peaceful resolution.
  - B A well made argument was presented, for negotiating a peaceful resolution.
  - C A well-made argument was presented for negotiating a peaceful resolution.
  - D A well-made-argument was presented for negotiating a peaceful resolution.
- 38
- A Ghazala asked? "What did Wasif mean when he said, 'I will see you later.'"
  - B Ghazala asked, "What did Wasif mean when he said, 'I will see you later?'"
  - C Ghazala asked, "What did Wasif mean when he said, 'I will see you later?'"
  - D Ghazala asked, "What did Wasif mean when he said, 'I will see you later'?"

For questions 39-41, two sentences are given. Read the sentences, and then choose the best answer (A, B, C, or D) to the question.

39 Driving a car is a skill that is easily acquired.  
 Many would-be motorists report that their driving lessons are tough and rigorous.  
 How are the two sentences related?

- A They present problems and solutions.
- B They contradict one another.
- C They give a cause and its effect.
- D They provide explanations for a controversial topic.

40 Certain well-publicized studies have indicated that prolonged cell phone use can lead to cancer in the brain.  
 Increasing numbers of people are purchasing and using cell phones every year, in spite of the potential health risks.

What does the second sentence do?

- A It exemplifies the first sentence.
- B It explains the reason for the result mentioned in the first sentence.
- C It gives unexpected information.
- D It draws a conclusion about what is stated in the first sentence.

41 International students require proficiency in the English language if they are to be successful at American colleges and universities.  
 In order to succeed academically, non-native speakers of English attending higher educational institutions in the United States need advanced English language skills.

What does the second sentence do?

- A It restates the claim made in first sentence.
- B It sums up the points raised in the first sentence.
- C It provides an example for what is stated in the first sentence.
- D It gives unexpected information.

For questions 42-45, read the text below and choose the best answer (A, B, C, or D) to the question.

It is exceedingly difficult to make people realize that an evil is an evil. For instance, we seize a man and deliberately do him a malicious injury: say, imprison him for years. One would not suppose that it needed any exceptional clearness of wit to recognize in this an act of diabolical cruelty. But in England such a recognition provokes a stare of surprise, followed by an explanation that the outrage is punishment or justice or something else that is all right, or perhaps by a heated attempt to argue that we should all be robbed and murdered in our beds if such senseless villainies as sentences of imprisonment were not committed daily.

It is useless to argue that even if this were true, which it is not, the alternative to adding crimes of our own to the crimes from which we suffer is not helpless submission. Chickenpox is an evil; but if I were to declare that we must either submit to it or else repress it by seizing everyone who suffers from it and

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punishing them by inoculation with smallpox, I should be laughed at; for though nobody could deny that the result would be to prevent chickenpox to some extent by making people avoid it much more carefully, and to effect a further apparent prevention by making them conceal it very anxiously, yet people would have sense enough to see that the deliberate propagation of smallpox was a creation of evil, and must therefore be ruled out in favour of purely humane and hygienic measures. Yet in the precisely parallel case of a man breaking into my house and stealing my diamonds I am expected as a matter of course to steal ten years of his life.

If he tries to defeat that monstrous retaliation by shooting me, my survivors hang him. The net result suggested by the police statistics is that we inflict atrocious injuries on the burglars we catch in order to make the rest take effectual precautions against detection; so that instead of saving our diamonds from burglary we only greatly decrease our chances of ever getting them back, and increase our chances of being shot by the robber.

But the thoughtless wickedness with which we scatter sentences of imprisonment is nothing compared to the stupid levity with which we tolerate poverty as if it were either a wholesome tonic for lazy people or else a virtue to be embraced as St. Francis embraced it. If a man is indolent, let him be poor. If he is drunken, let him be poor. If he is not a gentleman, let him be poor. If he is addicted to the fine arts or to pure science instead of to trade and finance, let him be poor. If he chooses to spend his wages on his beer and his family instead of saving it up for his old age, let him be poor. Let nothing be done for "the undeserving": let him be poor. Serve him right! Also -- somewhat inconsistently -- blessed are the poor!

[Adapted from the introduction to *Major Barbara*, G B Shaw (1907)]

42 The passage is most probably intended to

- A serve as an introduction to a more detailed discussion of poverty
- B criticise imprisonment as a measure of punishment
- C analyze the possible repercussions of social evils
- D continue a prior discussion of strong measures against social evils

43 It can be inferred from the passage that the author would agree with all the following EXCEPT

- A most people don't realize that by punishing offenders they are surrendering themselves to the vicious cycle of crime and punishment
- B sentences of imprisonment have little success in reducing the crime rate in society
- C tolerating poverty is at least as bad as inflicting punishments on criminals
- D if criminals were not strongly punished for their misdeeds there would be no law and order in society

44 The author's argument about imprisonment would be most weakened by showing that

- A imprisonment is not widely regarded as an act of cruelty
- B chicken pox and burglary are not comparable evils
- C imprisonment does not cause malicious injury
- D sentences of imprisonment are given increasingly rarely

45 The author apparently believes that people at the time he wrote the passage were

- A inclined to consider poverty a social evil
- B in favour of unusually harsh punishment of all offenders
- C too ready to judge other people unfairly
- D inconsistent in their attitude to poverty

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**Mathematics M.C.Q's**

No. of Questions: 40 (from 46 to 85)  
 Questions on Page Nos: 7 To 12

Suggested Time: 75 Minutes  
 Negative markings: Yes

46. One solution is 75% saltwater and another solution is 50% saltwater. How many gallons of first solution should be used to make 10 gallons of a solution that is 60% saltwater?
- A. 5 gallons  
 B. 7 gallons  
 C. 4 gallons  
 D. 3 gallons
47. The length of a rectangle is 6 inches less than four times the width. If the perimeter of the rectangle is 28 inches, find its width.
- A. 4 inches  
 B. 5 inches  
 C. 6 inches  
 D. 8 inches
48. Find the counting number between 11 and 40, when divided by 7, has remainder of 5 but, when divided by 5, has remainder 1.
- A. 33  
 B. 16  
 C. 26  
 D. 21
49. Successive discounts of 50% and 20% are equal to a single discount of
- A. 65 %  
 B. 60 %  
 C. 55 %  
 D. 50 %
50. Which polygon has exactly five sides?
- A. Hexagon  
 B. Octagon  
 C. Pentagon  
 D. Triangle
51. Find the standard deviation of 0, 5, 5, and 10?
- A.  $\frac{\sqrt{50}}{4}$   
 B.  $\frac{\sqrt{25}}{4}$   
 C.  $\frac{\sqrt{50}}{2}$   
 D.  $\frac{\sqrt{25}}{2}$
52. If  $(3)(3)(3)(3) = \frac{(6)(6)}{n}$ , then  $n$  must be
- A.  $\frac{9}{4}$   
 B.  $\frac{4}{9}$   
 C.  $\frac{9}{5}$   
 D.  $\frac{1}{9}$

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53. Which is the solution for the system of equation  $x + 2y = -2$  and  $2x + y = 2$ ?
- A. (2, 2)  
B. (-2, -2)  
C. (2, -2)  
D. (-2, 2)
54. What is the equation of a circle of radius 5 units centered at (1, 0)?
- A.  $(x - 1)^2 + y^2 = 5$   
B.  $(x - 1)^2 + y^2 = 25$   
C.  $x^2 + (y - 1)^2 = 25$   
D.  $x^2 + (y - 1)^2 = 5$
55. A box contains 14 gold coins and 16 silver coins. What is the probability that one coin selected at random will be a silver coin?
- A.  $\frac{8}{15}$   
B.  $\frac{7}{15}$   
C.  $\frac{8}{30}$   
D.  $\frac{7}{30}$
56. Which is NOT a property of parallelograms?
- A. The opposite sides are parallel.  
B. The opposite sides are equal.  
C. The opposite angles are equal.  
D. The diagonals bisect the angles.
57. Which is the simplest form of  $\frac{(x+1)^2(x^2-x)}{x^2(x^2-1)}$ ?
- A.  $\frac{x}{x+1}$   
B.  $\frac{x+1}{x}$   
C.  $\frac{x}{x-1}$   
D.  $\frac{x-1}{x}$
58. The average of 5 quantities is 6. The average of 3 of them is 8. What is average of the remaining two numbers?
- A. 3  
B. 4  
C. 6  
D. 2
59. If  $\frac{1}{5} + \frac{1}{2} + \frac{1}{x} = 7$ , then  $x =$
- A.  $\frac{10}{63}$   
B.  $\frac{60}{7}$   
C.  $\frac{63}{10}$   
D.  $\frac{7}{60}$

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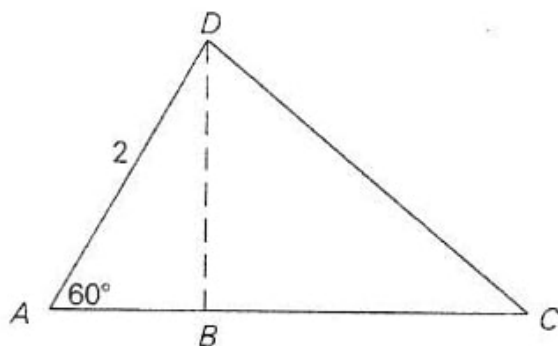
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60. If the perimeter of a square is 48 cm, what is its area?
- $136 \text{ cm}^2$
  - $148 \text{ cm}^2$
  - $144 \text{ cm}^2$
  - $140 \text{ cm}^2$
61. The set of all values satisfying the inequality  $10 - 3x < 2x - 5$
- $x < 3$
  - $x < 2$
  - $x > 3$
  - $x > 2$
62. Which is a FALSE statement?
- An irrational number is a real number.
  - A whole number is an integer.
  - A whole number is a rational number.
  - An integer is an irrational number.
63. If the cost price of 25 articles is equal to the selling price of 20 articles, what is the % profit or loss made by the merchant?
- 25 % loss
  - 25 % profit
  - 20 % loss
  - 20 % profit
64. Zaib bought a dinner set at a 40% reduction sale held late in the summer. The dinner set cost her Rs 1650. What was the original price of the dinner set?
- Rs 2650
  - Rs 2750
  - Rs 2800
  - Rs 2850
65. One number exceeds another number by 10. If the sum of the two numbers is 40, find the larger number.
- 15
  - 20
  - 25
  - 30
66. Which is angle with a measure between  $90^\circ$  and  $180^\circ$ ?
- Acute
  - Obtuse
  - Right
  - Straight
67. Which fraction is equal to  $0.12222222\dots\dots\dots$ ?
- $\frac{11}{90}$
  - $\frac{120}{1000}$
  - $\frac{122}{1000}$
  - $\frac{12}{90}$

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68. On two of his tests, Saqib scored 30 out of a maximum of 50 and on the third he scored 40 out of a maximum of 100? What is his average percentage score on the three tests?
- A. 33.33%  
 B. 43.33%  
 C. 53.33%  
 D. 63.33%
69. What is the highest integral value of '  $k$  ' for which the quadratic equation  $x^2 - 4x + k = 0$  have two real and distinct roots?
- A. 1  
 B. 2  
 C. 3  
 D. 4
70. What is the length of segment  $AB$  if the coordinates at point  $A$  are  $(6, 2)$  and the coordinates at point  $B$  are  $(3, -2)$ ?
- A. 4 units  
 B. 5 units  
 C. 6 units  
 D. 8 units
71. If  $ab = 6$  and  $a + b = 5$ , then  $a^2 + b^2 =$
- A. 8  
 B. 10  
 C. 12  
 D. 13
72. If  $x, y$  and  $z$  are all positive integers and  $x < y < z$ , then which of the following must be true?
- A.  $x + y > z$   
 B.  $xy > z$   
 C.  $z - y > x$   
 D.  $xz > y$
73. In the figure below, if a line segment connecting point  $B$  and  $D$  is perpendicular to  $AC$  and the area of triangle  $ADC$  is  $\frac{3\sqrt{3}}{2}$ , then  $BC = ?$



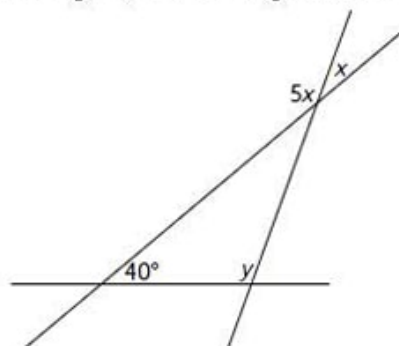
- A.  $\sqrt{2}$   
 B.  $\sqrt{3}$   
 C. 3  
 D. 2

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74. What are the solutions of the equation  $x^2 = 5x - 6$  ?
- A.  $x = 3$  and  $x = 2$   
 B.  $x = -3$  and  $x = 2$   
 C.  $x = 3$  and  $x = -2$   
 D.  $x = -3$  and  $x = -2$
75. In a bundle of 1000 flowers, 200 have 13 petals each, 700 have 15 petals each and the rest have 17 petals each. What is the average number of petals that the 1000 flowers have?
- A. 12.1  
 B. 14.8  
 C. 15.5  
 D. 15.8
76. Ayesha can complete an assignment in 20 days and Rumaisa can complete the same assignment in 30 days. If Ayesha and Rumaisa start working on the assignment together and Ayesha quits 10 days before the assignment is completed, in how many days will the assignment be completed?
- A. 18 days  
 B. 27 days  
 C. 16 days  
 D. 13 days
77. If  $25^{4x-3} = 125^{2x+4}$ , what is the value of  $x$ ?
- A. 1  
 B. 3  
 C. 6  
 D. 9

78. In the figure, find the degree measure of angle  $y$ .



- A.  $40^\circ$   
 B.  $50^\circ$   
 C.  $90^\circ$   
 D.  $110^\circ$
79. By what number is the area of a circle multiplied if its radius is doubled?
- A. 2  
 B.  $2\pi$   
 C.  $\pi$   
 D. 4
80. Find the supplement of the angle  $157^\circ$ ?
- A.  $21^\circ$   
 B.  $22^\circ$   
 C.  $23^\circ$   
 D.  $27^\circ$

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81. If  $p$  pencils cost  $c$  cents,  $n$  pencils at the same price will cost
- A.  $\frac{pc}{n}$   
B.  $\frac{n}{cn}$   
C.  $\frac{p}{np}$   
D.  $\frac{c}{npc}$   
E.  $\frac{npc}{2}$
82. Mobeen is four times as old as Imran. If the difference between their ages is 39 years, how old is Mobeen?
- A. 55  
B. 52  
C. 53  
D. 51
83. Which is not a multiple of 7?
- A. 35  
B. 84  
C. 45  
D. 56
84. What is the area of a circle whose diameter is 10 centimeters?  
Use  $\pi = 3.14$ .
- A.  $74.5 \text{ cm}^2$   
B.  $78.5 \text{ cm}^2$   
C.  $75.5 \text{ cm}^2$   
D.  $79.5 \text{ cm}^2$
85. The number 45 is 15 percent of what number?
- A. 320  
B. 300  
C. 310  
D. 325