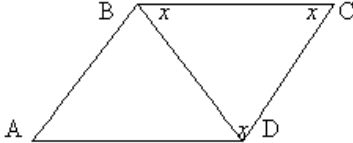
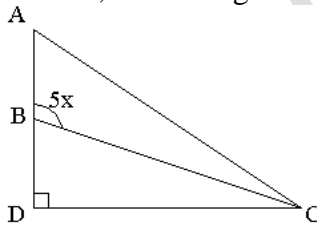


1. A baseball player travels from his home city, X, to Y City for a baseball game. He drives at 50 miles an hour. After the game, he travels back home and takes a flight that travels at 500 miles an hour. If the distance from X to Y City is 250 miles, and it took him  $j$  hours longer to drive than to fly, what is  $j$ ?
  - A. 6
  - B. 3.5
  - C. 12
  - D. 4.5
2. The slope of the line through the points  $(\frac{1}{2}, \frac{3}{4})$  and  $(-\frac{1}{3}, \frac{5}{4})$  is:
  - A.  $-\frac{3}{5}$
  - B.  $-\frac{6}{5}$
  - C.  $\frac{3}{5}$
  - D.  $\frac{5}{3}$
3. The price of an item changed from Rs.120 to Rs.100. Then later the price decreased again from Rs.100 to Rs.80. Which of the two decreases was larger in percentage term?
  - A. The second
  - B. The First
  - C. Both are same
  - D. None of above
4. ABCD is a parallelogram.  $BD = 2$ . The angles of triangle BCD are all equal. What is the perimeter of the parallelogram?
 



- A. 12
  - B.  $9\sqrt{3}$
  - C. 9
  - D. 8
5. A family had dinner in a restaurant and paid Rs. 30 for food. They also had to pay 9.5% sales tax and 10% for the tip. How much did they pay for the dinner?
  - A. Rs. 49.5
  - B. Rs. 35.5
  - C. Rs. 35.85
  - D. Rs. 36.01
6. Smith invested Rs. 5000 for two years. For the first year, the rate of interest was 7% and the second year it was 8.5%. How much interest did he earn at the end of the two year period?
  - A. 350
  - B. 804.75
  - C. 454.75
  - D. 750.75

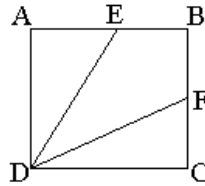
7. The vertex of the graph of  $f(x) = 3x^2 + 6x - 10$
- (1,-13)
  - (-1,-13)
  - (1,13)
  - (13,1)
8. Out of a world population of approximately 6.6 billion, 1.2 billion people live in the richer countries of Europe, North America, Japan and Oceania and growing at the rate of 0.25% per year, while the other 5.4 billion people live in the less developed countries and growing at the rate of 1.5%. What will be the world population in 5 years if we assume that these rates of increase will stay constant for the next 5 years?
- 6.89 billion
  - 7.03 billion
  - 8.04 billion
  - 7.5 billion
9. Which of the following could be a value of  $x$ , in the diagram below?



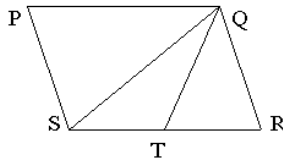
- 10
  - 20
  - 40
  - 50
10. Helpers are needed to prepare for the fete. Each helper can make either 2 large cakes per hour, or 35 small cakes per hour. The kitchen is available for 3 hours and 20 large cakes and 700 small cakes are needed. How many helpers are required?
- 10
  - 15
  - 20
  - 25
11. Sara's collection contains US, Indian and British stamps. If the ratio of US to Indian stamps is 5 to 2 and the ratio of Indian to British stamps is 5 to 1, what is the ratio of US to British stamps?
- 5 : 1
  - 10 : 5
  - 20 : 2
  - 25 : 2
12. A 3 by 4 rectangle is inscribed in circle. What is the circumference of the circle?
- $2.5\pi$
  - $3\pi$
  - $5\pi$
  - $4\pi$

13. The point of intersection of the lines with equations  $x = 7$  and  $y = -9$  is
- $(-9,7)$
  - $(5,-9)$
  - $(7, -9)$
  - $(-7,-9)$
14. A circular logo is enlarged to fit the lid of a jar. The new diameter is 50% larger than the original. By what percentage has the area of the logo increased?
- 50
  - 125
  - 100
  - 80

15. ABCD is a square of side 3, and E and F are the mid points of sides AB and BC respectively. What is the area of the quadrilateral EBF D?



- 2.25
  - 3
  - 4
  - 4.5
16. After being dropped a certain ball always bounces back to  $\frac{2}{5}$  of the height of its previous bounce. After the first bounce it reaches a height of 125 inches. How high (in inches) will it reach after its fourth bounce?
- 20
  - 15
  - 8
  - 5
17. 2 liters of water are poured into an aquarium of dimensions 50cm length, 30cm breadth, and 40cm height. How high (in cm) will the water rise? (1 litre =  $1000\text{cm}^3$ )
- 6
  - 8
  - 10
  - 20
18. PQRS is a parallelogram and  $ST = TR$ . What is the ratio of the area of triangle QST to the area of the parallelogram?



- 1 : 2
- 1 : 3
- 1 : 4
- 1 : 5

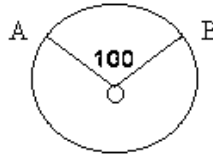
19. Six years ago Anita was  $P$  times as old as Ben was. If Anita is now 17 years old, how old is Ben now in terms of  $P$ ?

- A.  $\frac{11}{P} + 6$
- B.  $\frac{P}{11} + 6$
- C.  $17 - \frac{P}{6}$
- D.  $\frac{17}{P}$

20. A perfect cube is an integer whose cube root is an integer. For example, 27, 64 and 125 are perfect cubes. If  $p$  and  $q$  are perfect cubes, which of the following will not necessarily be a perfect cube?

- A.  $8p$
- B.  $pq$
- C.  $pq + 27$
- D.  $(p - q)6$

21. If the radius of the circle with center  $O$  is 7 and the measure of angle  $AOB$  is 100, what is the best approximation to the length of arc  $AB$ ?

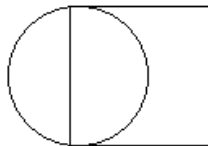


- A. 9
- B. 10
- C. 11
- D. 12

22. Sheila works 8 hours per day on Monday, Wednesday and Friday, and 6 hours per day on Tuesday and Thursday. She does not work on Saturday and Sunday. She earns Rs324 per week. How much does she earn in Rupees per hour?

- A. 11
- B. 10
- C. 9
- D. 8

23. In the figure above the square has two sides which are tangent to the circle. If the area of the circle is  $4a^2\pi$ , what is the area of the square?



- A.  $2a^2$
- B.  $4a$
- C.  $4a^2$
- D.  $16a^2$

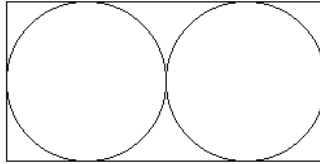
24. A triangle has a perimeter 13. The two shorter sides have integer lengths equal to  $x$  and  $x + 1$ . Which of the following could be the length of the other side?

- A. 2
- B. 4
- C. 6
- D. 8

25. A machine puts  $c$  caps on bottles in  $m$  minutes. How many hours will it take to put caps on  $b$  bottles?

- A.  $60bm/c$
- B.  $bm/60c$
- C.  $bc/60m$
- D.  $60b/cm$

26. Two equal circles are cut out of a rectangle of card of dimensions 16 by 8. The circles have the maximum diameter possible. What is the approximate area of the paper remaining after the circles have been cut out?



- A. 27
- B. 104
- C. 78
- D. 54

27. The price of a cycle is reduced by 25%. The new price is reduced by a further 20 per cent. The two reductions together are equal to a single reduction of

- A. 45%
- B. 40%
- C. 35%
- D. 32.5%

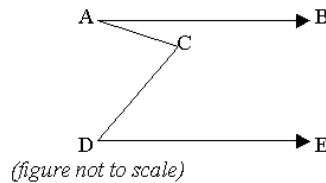
28. For what value of  $K$  will the line with equation  $x = 6$  be tangent to the circle with equation  $x^2 + y^2 = K$ ?

- A.  $\sqrt{6}$
- B. 6
- C. 36
- D. 24

29. Courier charges for packages to a certain destination are 65 cents for the first 250 grams and 10 cents for each additional 100 grams or part thereof. What could be the weight in grams of a package for which the charge is Rs.1.55?

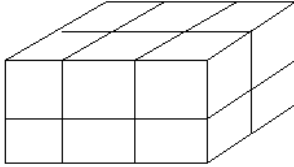
- A. 1155
- B. 1145
- C. 1040
- D. 950

30.  $AB$  and  $DE$  are parallel. Angle  $BAC = 30^\circ$ , angle  $CDE = 50^\circ$ . What is the measure of angle  $ACD$  ?



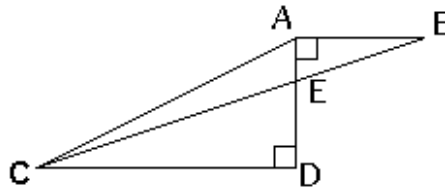
- A. 100
- B. 90
- C. 80
- D. 70

31. The solid brick shown is made of small bricks of side 1. When the large brick is disassembled into its component small bricks, the total surface area of all the small bricks is how much greater than the surface area of the large brick?



- A. 32  
B. 40  
C. 60  
D. 72
32. Jamil and Riaz are 90 miles away from one another. They are starting to move towards each other simultaneously, Jamil at a speed of 10 Mph and Riaz at a speed of 5 Mph. If every hour they double their speeds, what is the distance that Jamil will pass until he meets Riaz?
- A. 30 miles.  
B. 35 miles.  
C. 65 miles.  
D. 60 miles.
33. Which number will come next?  
5, 7, 10, 12, 14, 24, 26, \_\_\_\_\_
- A. 52  
B. 30  
C. 28  
D. 48
34. Twelve men take 6 hours to finish a piece of work. After the 12 men have worked for 1 hour, the contractor decides to call in 8 more men. How many more hours would 20 men take to complete the remaining work?
- A. 2  
B. 3  
C. 4  
D. 5
35. If 12 years are added to  $\frac{2}{3}$  age of Rani, she will be three years older than today. What is Rani's present age?
- A. 25  
B. 27  
C. 26  
D. 29
36. Three families, P, Q and R, share 480 kg of rice, Q receives twice as much rice as P and R receives half as much rice as Q. How much rice does family Q gets?
- A. 220 kg  
B. 230 kg  
C. 240 kg  
D. 250 kg

37. There are four numbers. Average of the first three is 15 and that of the last three is 16. If the last number is 19 find the first number:
- A. 16
  - B. 18
  - C. 20
  - D. 21
38. The enrollment in a certain secondary school was 450 in 1979. By 1980 the enrollment had increased by 16%, what was the enrollment in 1980?
- A. Rs.512
  - B. Rs.518
  - C. Rs.522
  - D. Rs.526
39. The sum of 2 numbers is 84, if one of them exceeds, the other by 12. Find the numbers?
- A. 40,52
  - B. 1,13
  - C. 36,48
  - D. 72,84
40. In the figure below  $AD = 4$ ,  $AB = 3$  and  $CD = 9$ . What is the area of triangle AEC?



- A. 18
- B. 13.5
- C. 9
- D. 4.5

**If you finish before time is called, you may check your work on this section only.**

**This is the end of Mathematics MCQs. Next section is English MCQs.**

For questions **41-60**, select the best version (**A, B, C** or **D**) of the underlined part of the sentence. If no change is required to the sentence, select option **A**.

**41** This coming summer Smiths, the transport company, are expecting a turnaround in the market.

- A** Smiths, the transport company, are
- B** Smiths, the transport company, is
- C** the transport company, Smiths, are
- D** Smiths, the transport company, was

**42** On *Discovery* channel last night they showed an informative program about new innovations in medical imaging, which you would have found interesting.

- A** they showed an informative program about new innovations in medical imaging, which you would have found interesting.
- B** they showed an informative program about innovations in medical imaging, which you would have found interesting.
- C** they showed an informative program about innovations in medical imaging, that you would have found interesting.
- D** there was an informative program about innovations in medical imaging, a program you would have found interesting.

**43** The mole is a nocturnal insectivorous mammal regarded as pests by gardeners because of their burrowing activity spoiling lawns and gardens.

- A** regarded as pests by gardeners because of their burrowing activity spoiling
- B** regarded to be pests by gardeners because of their burrowing activity's spoiling
- C** regarded as a pest by gardeners because of burrowing activity spoiling
- D** regarded as a pest by gardeners because its burrowing activity spoils lawns and gardens.

**44** Among the many reasons for the candidate's defeat in the election was his arrogant assumption that his constituents were incapable of understanding economic conditions, and his unwarranted attack on his chief opponent.

- A** was his arrogant assumption that his constituents were incapable of understanding economic conditions
- B** were his arrogant assumption that his constituents were incapable of understanding economic conditions
- C** were his arrogant assumptions that his constituents were incapable of understanding economical conditions
- D** were his arrogant assumption that his constituents would be incapable of understanding economics



**45** More and more holidaymakers are choosing to fly to remote islands in search of the perfect beach; seeking sand, sun and palm trees, rather than centers of entertainment.

- A ; seeking sand, sun and palm trees, rather than centers of entertainment.
- B ; seeking sad, sun, palm trees and not entertainment.
- C , with sand, sun, palm trees and no entertainment.
- D ; they seek sand, sun and palm trees, rather than centers of entertainment.

**46** The best way to encourage innovative thinking is not to promise financial rewards for ideas, but to ensure that the person making the suggestion receives recognition for his contribution.

A but to ensure that the person making the suggestion receives recognition for his contribution.

B but to ensure that the person who makes the suggestion will be receiving recognition for his contribution.

C but rather by ensuring that the person making the suggestion receives recognition for his contribution.

D but rather ensure that suggestion-maker receives recognition for his contribution.

**47** It ought to be her with whom you share your secrets, not me.

- A her with whom you share your secrets, not me
- B her with whom you share your secrets, not I.
- C she with whom you share your secrets, not me.
- D she with whom you share your secrets, not I.

**48** Stress-induced amnesia is a rare phenomenon; it strikes the patient apparently without warning and the memory loss can be as complete as that induced by physical trauma.

- A as complete as that induced by physical trauma
- B as complete as is induced by physical trauma's
- C as least as complete as physical trauma induces
- D at least as complete as physical trauma

**49** Once a hurricane is identified, it is given a name from a list drawn up by the United States Weather Service, a list that is reused after a few years, but with the names of the worst hurricanes omitted.

- A but with the names of the worst hurricanes omitted
- B after omitting the worst hurricane names
- C omitting the names of the worst hurricanes
- D the names of the worst hurricanes being omitted

**50** China's economy continues to flourish this year: industrial production grew, inflation has eased, and the trade surplus swelled.

- A grew, inflation has eased, and the trade surplus swelled
- B is growing, inflation easing and the trade surplus swelling
- C has grown, inflation eased, and the trade surplus is swelling
- D has grown, inflation has eased, and the trade surplus swelled

51 Her success turned out due to her ability to think laterally, and her drive and determination.

- A Her success turned out due to her
- B Her success seemed to be her
- C Her success is to be due to her
- D Her success turned out to be due to her

52 Jessica Mitford wrote *The American Way of Death*, a best-selling book, that led eventually to an official investigation of the funeral industry.

- A that led eventually
- B that had led eventually
- C that eventually led
- D which led eventually

53 Sabotage came from the French saboter, which means “to clatter with wooden shoes (sabots).”

- A which means “to
- B which means, “to
- C that means “to
- D that means- “to

54 In studying an assignment it is wise to read it over quickly at first, than see the major points, and finally outline the material.

- A first, than
- B first-then
- C first: then
- D first, then

55 To judge the Tidy City contest, we picked an uninterested party.

- A picked an uninterested party.
- B picked an interested party!
- C picked a disinterested party.
- D are in the process of picking an uninterested party.

56 Sidra decides they had better scam before the killers find them.

- A had better scam
- B had better leave
- C should hurry and scam
- D could hurry and leave

57 I really dug the character of Brutus in *Julius Caesar*.

- A dug
- B admired
- C gazed at
- D thought of

**58** Once upon a point a time, a small person named Little Red Riding Hood initiated plans for the preparation, delivery and transportation of foodstuffs to her Grandmother.

- A** and transportation of foodstuffs to her Grandmother.
- B** and transportation of foodstuffs to her grandmother.
- C** and transportation of food stuffs to her Grandmother.
- D** and, transportation of food supplies to her grand mother.

**59** The setting of a story effects the story's plot.

- A** effects the story's plot
- B** affect the story's plot
- C** affects the story's plot
- D** effects the stories plot

**60** Arctic trees are scrubbiest than trees in milder climates.

- A** scrubbiest than trees
- B** scrubbier then trees
- C** scrubbier than trees
- D** scrubbier than are trees

For questions **61-65**, read the following text and decide which answer (**A**, **B**, **C** or **D**) best answers the given question.

1. In 1892 the Sierra Club was formed. In 1908 an area of coastal redwood trees north of San Francisco was established as Muir Woods National Monument. In the Sierra Nevada mountains, a walking trail from Yosemite Valley to Mount Whitney was dedicated in 1938. It is called John Muir Trail.
2. John Muir was born in 1838 in Scotland. His family name means “moor,” which is a meadow full of flowers and animals. John loved nature from the time he was small. He also liked to climb rocky cliffs and walls.
3. When John was eleven, his family moved to the United States and settled in Wisconsin. John was good with tools and soon became an inventor. He first invented a model of sawmill. Later he invented an alarm clock that would cause the sleeping person to be tipped out of bed when the timer sounded.
4. Muir left home at an early age. He took a thousand-mile walk south to the Gulf of Mexico in 1867 and 1868. Then he sailed for San Francisco. The city was too noisy and crowded for Muir, so he headed inland for the Sierra Nevadas.
5. When Muir discovered the Yosemite Valley in the Sierra Nevadas, it was as if he had come home. He loved the mountains, the wildlife, and the trees. He climbed the mountains and even climbed trees during thunderstorms in order to get closer to the wind. He put forth the theory in the late 1860s that the Yosemite Valley had been formed through the action of glaciers. People ridiculed him. Not until 1930 was Muir's theory proven correct.
6. Muir began to write articles about the Yosemite Valley to tell readers about its beauty. His writing also warned people that Yosemite was in danger from timber mining and sheep ranching interests. In 1901, Theodore Roosevelt became president of the United States. He was interested in conservation. Muir took the president through Yosemite, and Roosevelt helped get legislation passed to create Yosemite National Park in 1906.
7. Although Muir won many conservation battles, he lost a major one. He fought to save the Hetch Valley, which people wanted to dam in order to provide water for San Francisco. In

the late 1913, a bill was signed to dam the valley. Muir died in 1914. Some people say losing the fight to protect the valley killed Muir.

**61** What happened first?

- A** Muir Woods was created.
- B** Muir visited along the east coast.
- C** John Muir learned to climb rocky cliffs.
- D** John Muir walked to the Gulf of Mexico

**62** When did Muir invent a unique form of alarm clock?

- A** while the family still lived in Scotland
- B** after he sailed to San Francisco
- C** after he traveled in Yosemite
- D** while the Muir family lived in Wisconsin

**63** What did John Muir do soon after he arrived in San Francisco?

- A** He ran outside during an earthquake.
- B** He put forth a theory about how Yosemite was formed.
- C** He headed inland for the Sierra Nevadas.
- D** He began to write articles about the Sierra Nevadas.

**64** When did John Muir meet Theodore Roosevelt?

- A** between 1901 and 1906
- B** between 1838 and 1868
- C** between 1906 and 1914
- D** between 1868 and 1901

**65** What happened last?

- A** John Muir died.
- B** John Muir Trail was dedicated.
- C** Muir's glacial theory was proven.
- D** The Sierra Club was formed.

For questions **66-70**, read the following text and decide which answer (**A**, **B**, **C** or **D**) best answers the given question.

1. Charles A. Lindbergh is remembered as the first person to make a nonstop solo flight across the Atlantic, in 1927. This feat, when Lindbergh was only twenty-five years old, assured him a lifetime of fame and public attention.
2. Charles Augustus Lindbergh was more interested in flying airplanes than he was in studying. He dropped out of the University of Wisconsin after two years to earn a living performing daredevil airplane stunts at country fairs. Two years later, he joined the United States Army so that he could go to the Army Air Service flight-training school. After completing his training, he was hired to fly mail between St. Louis and Chicago.
3. Then came the historic flight across the Atlantic. In 1919, a New York City hotel owner offered a prize of \$25,000 to the first pilot to fly nonstop from New York to Paris. Nine St. Louis business leaders helped pay for the plane Lindbergh designed especially for the flight. Lindbergh tested the plane by flying it from San Diego to New York, with an

overnight stop in St. Louis. The flight took only 20 hours and 21 minutes, a transcontinental record.

4. Nine days later, on May 20, 1927, Lindbergh took off from Long Island, New York, at 7:52 A. M. He landed at Paris on May 21 at 10:21 P. M. He had flown more than 3,600 miles in less than thirty four hours. His flight made news around the world. He was given awards and parades everywhere he went. He was presented with the U. S. Congressional Medal of Honor and the first Distinguished Flying Cross. For a long time, Lindbergh toured the world as a U. S. goodwill ambassador. He met his future wife, Anne Morrow, in Mexico, where her father was the United States ambassador.
5. During the 1930s, Charles and Anne Lindbergh worked for various airline companies, charting new commercial air routes. In 1931, for a major airline, they charted a new route from the east coast of the United States to the Orient. The shortest, most efficient route was a great curve across Canada, over Alaska, and down to China and Japan. Most pilots familiar with the Arctic did not believe that such a route was possible. The Lindberghs took on the task of proving that it was. They arranged for fuel and supplies to be set out along the route. On July 29, they took off from Long Island in a specially equipped small seaplane. They flew by day and each night landed on a lake or a river and camped. Near Nome, Alaska, they had their first serious emergency. Out of daylight and nearly out of fuel, they were forced down in a small ocean inlet. In the next morning's light, they discovered they had landed on barely three feet of water. On September 19, after two more emergency landings and numerous close calls, they landed in China with the maps for a safe airline passenger route.
6. Even while actively engaged as a pioneering flier, Lindbergh was also working as an engineer. In 1935, he and Dr. Alexis Carrel were given a patent for an artificial heart. During World War I in the 1940s, Lindbergh served as a civilian technical advisor in aviation. Although he was a civilian, he flew over fifty combat missions in the Pacific. In the 1950s, Lindbergh helped design the famous 747 jet airliner. In the late 1960s, he spoke widely on conservation issues. He died August 1974, having lived through aviation history from the time of the first powered flight to the first steps on the moon and having influenced a big part of that history himself.

**66** What did Lindbergh do before he crossed the Atlantic?

- A He charted a route to China.
- B He graduated from flight-training school.
- C He married Anne Morrow.
- D He acted as a technical advisor during World War II.

**67** What happened immediately after Lindbergh crossed the Atlantic?

- A He flew the mail between St. Louis and Chicago.
- B He left college.
- C He attended the Army flight-training school.
- D He was given the Congressional Medal of Honor.

**68** When did Charles meet Anne Morrow?

- A before he took off from Long Island
- B after he worked for an airline
- C before he was forced down in an ocean inlet
- D after he received the first Distinguished Flying Cross

69 When did the Lindberghs map an air route to China?

- A before they worked for an airline
- B before Charles worked with Dr. Carrel
- C after World War II
- D while designing the 747

70 What event happened last?

- A Lindbergh patented an artificial heart.
- B The Lindberghs mapped a route to the Orient.
- C Lindbergh helped design the 747 airline.
- D Lindbergh flew fifty combat missions.

For questions 71-78, read the following text and decide which answer (A, B, C or D) best answers the given question.

1. A stout old lady was walking with her basket down the middle of a street in Petrograd to the great confusion of the traffic and with no small peril to herself. It was pointed out to her that the pavement was the place for pedestrians, but she replied: 'I'm going to walk where I like. We've got liberty now.' It did not occur to the dear old lady that if liberty entitled the pedestrian to walk down the middle of the road, then the end of such liberty would be universal chaos. Everybody would be getting in everybody else's way and nobody would get anywhere. Individual liberty would have become social anarchy.
2. There is a danger of the world getting liberty-drunk in these days like the old lady with the basket, and it is just as well to remind ourselves of what the rule of the road means. It means that in order that the liberties of all may be preserved, the liberties of everybody must be curtailed. When the policeman, say, at Piccadilly Circus, steps into the middle of the road and puts out his hand, he is the symbol not of tyranny, but of liberty. You may not think so. You may, being in a hurry, and seeing your car pulled up by this insolence of office, feel that your liberty has been outraged. How dare this fellow interfere with your free use of the public highway? Then, if you are a reasonable person, you will reflect that if he did not interfere with you, he would interfere with no one, and the result would be that Piccadilly Circus would be a maelstrom that you would never cross at all. You have submitted to a curtailment of private liberty in order that you may enjoy a social order which makes your liberty a reality.
3. Liberty is not a personal affair only, but a social contract. It is an accommodation of interests. In matters which do not touch anybody else's liberty, of course, I may be as free as I like. If I choose to go down the road in a dressing-gown who shall say me nay? You have liberty to laugh at me, but I have liberty to be indifferent to you. And if I have a fancy for dyeing my hair, or waxing my moustache (which heaven forbid), or wearing an overcoat and sandals, or going to bed late or getting up early, I shall follow my fancy and ask no man's permission. I shall not inquire of you whether I may eat mustard with my mutton. And you will not ask me whether you may follow this religion or that, whether you may prefer Ella Wheeler Wilcox to Wordsworth, or champagne to shandy.
4. In all these and a thousand other details you and I please ourselves and ask no one's leave. We have a whole kingdom in which we rule alone, can do what we choose, be wise or ridiculous, harsh or easy, conventional or odd. But directly we step out of that kingdom, our personal liberty of action becomes qualified by other people's liberty. I might like to

practice on the trombone from midnight till three in the morning. If I went on to the top of Everest to do it, I could please myself, but if I do it in my bedroom my family will object, and if I do it out in the streets the neighbors will remind me that my liberty to blow the trombone must not interfere with their liberty to sleep in quiet. There are a lot of people in the world, and I have to accommodate my liberty to their liberties.

5. We are all liable to forget this, and unfortunately we are much more conscious of the imperfections of others in this respect than of our own. A reasonable consideration for the rights or feelings of others is the foundation of social conduct.
6. It is in the small matters of conduct, in the observance of the rule of the road, that we pass judgment upon ourselves, and declare that we are civilized or uncivilized. The great moments of heroism and sacrifice are rare. It is the little habits of commonplace intercourse that make up the great sum of life and sweeten or make bitter the journey.

[Adapted from an essay by George Orwell]

71 The author might have stated his 'rule of the road' as

- A do not walk in the middle of the road
- B follow the orders of policemen
- C do not behave inconsiderately in public
- D do what you like in private

72 The author's attitude to the old lady in paragraph 1 is

- A condescending
- B intolerant
- C objective
- D sardonic

73 The sentence 'It means...curtailed' (paragraph 2) is an example of

- A hyperbole
- B cliché
- C simile
- D paradox

74 Which sentence best sums up the author's main point?

- A There is a danger... means. (paragraph 2)
- B A reasonable... conduct. (paragraph 5)
- C It is in the small matters... uncivilized. (paragraph 6)
- D The great moments... rare. (paragraph 6)

75 A situation analogous to the 'insolence of office' described in paragraph 2 would be

- A a teacher correcting grammar errors
- B an editor shortening the text of an article
- C a tax inspector demanding to see someone's accounts
- D an army officer giving orders to a soldier

76 'Qualified' (paragraph 4) most nearly means

- A accredited
- B improved

- C limited
- D stymied

77 The author assumes that he may be as free as he likes in

- A all matters of dress and food
- B anything that is not against the law
- C his own home
- D any situation which does not interfere with the liberty of others

78 In the sentence 'We are all liable....' (paragraph 5) the author is

- A pointing out a general weakness
- B emphasizing his main point
- C countering a general misconception
- D suggesting a remedy

For questions 79-80, read the following text and decide which answer (A, B, C or D) best answers the given question.

1. One of the most noxious wind-borne allergens is ragweed (*Ambrosia*), as evidenced by an estimated 30 million sufferers in the U.S. alone and a societal cost of over \$3 billion. Each plant is able to produce more than a billion grains of pollen over the course of a season, and the plant is the prime cause of most cases of hay fever in North America. Although the plant produces more pollen in wet years, humidity rates above seventy percent tend to depress the spread of pollen by causing the grains to clump.
2. Ragweed spreads rapidly by colonizing recently disturbed soil, such as that engendered by roads, subdivisions, and cultivation and has adapted to a multitude of climatic conditions, including desert and high mountain areas. Complete elimination is virtually impossible. Physical removal is undone by even one seed or one bit of root left behind. Ragweed regenerates in about two weeks from only a half-inch of stem, usually with additional branching and flowering, so mowing can actually be counterproductive. Ragweed is susceptible to only the most aggressive herbicides, and because ragweed tends to cover large areas, control would mean widespread use of highly toxic chemicals. Control by natural predators? No known mammal browses on ragweed. Some species of *Lepidoptera* (butterflies, skippers, and moths) larvae feed on ragweed, but this arena of control is not well funded, and consequently not well-researched. Given the health issues and costs occasioned by ragweed, government funding for natural control research is warranted.

79 Which of the following can be inferred about the spread of ragweed pollen?

- A Ragweed plants adapted to desert and mountain climates tend to spread fewer grains of pollen than do plants in other locations.
- B Some attempts to control it may exacerbate the problem.
- C The clumping of pollen grains caused by high humidity levels affects the ability of the wind to carry the grains.
- D B and C



**80** The author most probably mentions some species of Lepidoptera in order to

- A** detail a species that may be more effective at controlling ragweed than are the most aggressive herbicides
- B** suggest a potential research avenue to the problem of controlling ragweed that is at present poorly explored
- C** discuss a type of mammal that feeds on ragweed plants and may be successful at controlling the spread of ragweed
- D** plead with the government to spend more money and put more research efforts into finding a natural control for ragweed

**This is the end of English MCQs.**

**If you finish before time is called, you may check your work on this section only.**

**Next section is General Knowledge Section.**

**81** Which is the largest gland in the human body?

- A Liver
- B Adrenal
- C Pituitary
- D None of the above

**82** The famous mountain peak of *Nanga Parbat* belongs to which range?

- A Karakoram range
- B Himalayas range
- C HinduKush range
- D Sulaiman range

**83** Which is the national flower of Pakistan?

- A Rose
- B Thistle
- C Jasmine
- D Chamomile

**84** Which military alliance had Pakistan as its member?

- A NATO
- B SEATO
- C ANZUS
- D Warsaw Pact

**85** As you go down into a well, your weight \_\_\_\_\_.

- A increases slightly
- B decreases slightly
- C remains exactly the same
- D None of the above

**86** What is the approximate length of the Great Wall of China?

- A 18,196 km
- B 19,196 km
- C 20,196 km
- D 21,196 km

**87** Yeast, used in making bread, is a \_\_\_\_\_.

- A fungus
- B plant
- C bacteria
- D seed

**88** Which Technology company has the biggest market share?

- A Apple
- B Intel
- C Google
- D Microsoft Corporation

**89** What is the capital of Finland?

- A Helsinki
- B Turku
- C Tampere
- D Suomi

**90** In which sport would you find a “Middle Linebacker”?

- A Cricket
- B Rugby
- C Baseball
- D American Football

**91** In which location do people have the longest life expectancy?

- A Croatia
- B Japan
- C France
- D Hong Kong

**92** In Physics, which is the most dangerous radiation to humans?

- A Alpha

- B** Beta
- C** Gamma
- D** Omega

**93** Which of these cities is farthest north?

- A** Dublin, Ireland
- B** Vancouver, Canada
- C** Bucharest, Romania
- D** Frankfurt, Germany

**94** Who is the founder of *Snapchat*?

- A** Dong Nguyen
- B** Kevin Systrom
- C** Evan Spiegel
- D** Travis Kalanick

**95** Who wrote the novel *Middlemarch*?

- A** Charlotte Brontë
- B** George Eliot
- C** Charles Dickens
- D** Thomas Hardy

**96** Which city has the highest murder rate in the world?

- A** Acapulco, Mexico
- B** Kingston, Jamaica
- C** San Pedro Sula, Honduras
- D** Sao Paulo, Brazil

**97** Where was Pakistan's first radio station setup?

- A** Lahore
- B** Karachi
- C** Peshawar
- D** Islamabad

**98** Which of the following was the first rocket launched by Pakistan?

- A Badar
- B Ghauri
- C Rahbar
- D Ghaznavi

**99** Which crop is sown on the largest area in Pakistan?

- A Rice
- B Wheat
- C Maize
- D Cotton

**100** Who built the Badshahi Masjid of Lahore?

- A Akbar
- B Jahangir
- C Shah Jahan
- D Aurangzeb

**This is the end of General Knowledge MCQs.**

**If you finish before time is called, you may check your work on this section only.**

**Next section is MIS & CS MCQs**

**MIS & CS M.C.Qs**

No. of Questions: 10

Time: 15 Minutes

Negative Markings: **No**

- 
- Q 101**      **One byte is made of**
- A Four bits
  - B Eight bits
  - C Twelve bits
  - D Sixteen bit
- Q102**      \_\_\_\_\_ is a data collection system specifically designed to support **planning, management, and decision making in health facilities and organizations.**
- A Health Management Information Systems
  - B Hazardous Materials Identification System
  - C Management Information System
  - D All of the above
- Q103**      **The data about state of health of the population and linking this information is required ...**
- A For reporting on news channel
  - B For running a local hospital
  - C For policy-making at the national level
  - D None of the above
- Q104**      **Currently in Pakistan reports generated by the facility based HMIS receive ....**
- A High priority
  - B Medium priority
  - C Low priority
  - D Does not exist
- Q105**      **In Pakistan generally the healthcare facility staff looks upon HMIS as a(n) .....**
- A Additional workload
  - B Part of their work
  - C Exciting and useful job responsibility
  - D All of the above
- Q106**      **A modern healthcare system is \_\_\_\_\_ for the well-being of any country, especially in developing countries.**
- A highly important
  - B Least important
  - C World Health Organization's responsibility
  - D Don't know

- Q107** Training enhances healthcare IT-professionals' knowledge and skills in e-health applications therefore training and learning programs for healthcare providers must be arranged \_\_\_\_\_.
- A At the time of induction
  - B On regular intervals/basis
  - C At the time of promotions
  - D By the international organizations
- Q108** Health informatics is about ...
- A The relationship between technology, people and organizations
  - B Improving the quality and safety of patient care
  - C Improving the accounting and management of hospitals
  - D None of the above
- Q109** Health care organizations should \_\_\_\_\_: automation, connectivity, decision support, and data-mining capabilities.
- A Focus on one of these
  - B Consider at most two of these
  - C Balance the institution's IT portfolio among these
  - D None of the above
- Q110** Government should Incentivize use of IT at healthcare facilities based on ...
- A Acquisition of IT
  - B Acquisition of skilled IT Human Resources
  - C Clinical performance gains
  - D All of the above

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**This is the end of MIS & CS MCQs.**

**If you finish before time is called, you may check your work on this section only.**

**Next section is Essay Question (To be attempted on separate Essay Script using pen).**

**ESSAY QUESTION MUST BE ATTEMPTED ON ESSAY SCRIPT**

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Essay Question

Time: 20 Minutes

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**Note: Please attempt essay questions on Essay Script given separately using pen.**

**Analysis of an Issue [Time allowed: 20 minutes]:**

**Instructions:**

In this section, you will need to analyze the issue presented and explain your views on it. There is no “correct” answer. Instead, you should consider various perspectives as you develop your own position on the issue. Read the statement and the instructions that follow it, and then make any notes that will help you plan your response.

We all work or will work in our jobs with many different kinds of people. In your opinion, what are some important characteristics of a co-worker?

Use reasons and specific examples to explain why these characteristics are important.