**ALL ANSWERS MUST BE GIVEN ON THE COMPUTERIZED ANSWER SHEET
BY CROSSING THE CORRESPONDING ALPHABET**
ENGLISH M.C.Q'S

No. of Questions: 43   Time allowed: 40 minutes
Questions on Page Nos: 1 To 7   Negative Marking: Yes

[Questions 1 to 12] Vocabulary section:

1. At present, the rate of economic growth is very satisfactory, but .... when foreign
    competition makes itself felt, this will not be the case.

    A.   enthusiastically
    B.   eventually
    C.   considerably
    D.   effectively

2. The study of the situation covers a great deal of relevant material, but does not
   tackle the real issues ………….. enough.

    A.   currently
    B.   outrageously
    C.   vaguely
    D.   adequately

3. As the new field worker will be working in close .... with several others, make
   sure you select someone with agreeable personality.

    A.   productivity
    B.   discretion
    C.   collaboration
    D.   uniformity

4. Serbian .... in Bosnia has been strongly condemned by the civilized world, but
   little serious action has been taken against it.

    A.   settlement
    B.   conduct
    C.   treaty
    D.   investment

5. I am not .... that the proposal actually will lead to an improvement in the
   situation.

    A.   deterred
    B.   refrained
    C.   convinced
    D.   intrusive

6. In a child, curiosity normally suggests intelligence and is welcomed; but an .... adult is best.

    A.   inquisitive
    B.   impartial
    C.   indecisive
    D.   indulgent

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7. In view of the severe economic recession, his appointment to this office was regarded as highly ....

   A.   refutable
   B.   appropriate
   C.   considerable
   D.   compulsory

8. Sponsorship is being increasingly allowed in schools provided it is regarded as being .... with educational curricula.

   A.   predictable
   B.   decisive
   C.   provocative
   D.   compatible

9. Visibility depends .... upon the concentration of water or dust particles in the air.

   A.   obstinately
   B.   instantly
   C.   suitably
   D.   chiefly

10. This magazine is designed to help satellite equipment buyers make more .... purchasing decisions and keep ahead of new developments.

   A.   representative
   B.   obscure
   C.   foreseen
   D.   informed

11. For the chemists of the 18th and 19th centuries, an understanding of the chemical nature of food was a major ....

   A.   objective
   B.   agreement
   C.   submission
   D.   significance

12. You should have attended that lecture on durability testing of fibres; it really was most ....

   A.   irrelevant
   B.   stimulating
   C.   dull
   D.   reluctant

[Questions 13 to 22] Chose the most appropriate marketing term for the given statements:

13. The car sales _____ for the first half of the year are dramatically decreased.

   A. statistics
   B. figures
   C. heightened

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14. Net salary is salary after _____ of tax and social security.

   A. subtraction
   B. reducing
   C. deduction

15. Last year production _____ rose in line with inflation.

   A. expenditures
   B. charges
   C. factors

16. In most markets the _____ provide a steady demand.

   A. manufacturers
   B. stock exchange
   C. consumers

17. In most markets the manufacturers provide a steady _____ of the goods.

   A. supply
   B. flow
   C. provision

18. He doesn't earn enough to cover a home _____. She must borrow from a friend.

   A. loan
   B. lease
   C. credit

19. _____ uniforms are provided by the airline company.

   A. Employees
   B. workers
   C. Staff

20. We gave our boss a gift _____ for his birthday. He can buy what he needs.

   A. watch
   B. package
   C. voucher

21. The opening of a new _____ by Ford Motor Company involved rehiring people.

   A. plant
   B. outlet
   C. showroom

22. The government has _____ limits to imports.

   A. sanction
   B. imposed
   C. regulated

[Questions 23 to 30] Intriguing words that often confuse:

23. Offices, cars, houses and valuable belongings should be _____.

   A. reassure
   B. ensured
   C. insured
   D. confirmed

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24. The organizer _____ me that everything would go as planned.

    A. reassure
    B. ensured
    C. insured
    D. confirm

25. I want to _____ that I have turned all the lights off, so I'm going back.

    A. reassure
    B. ensured
    C. insured
    D. confirm

26. Sue phoned the travel agent to _____ her departure time and seat number.

    A. reassure
    B. ensured
    C. insured
    D. confirm

27. Whatever his parents did, Hasan did not _____ the truth about the fight.

    A. releasing
    B. relieved
    C. revise
    D. reveal

28. Susan was _____ that her father's operation went well.

    A. releasing
    B. relieved
    C. revise
    D. reveal

29. My favorite singer is _____ a new record next week.

    A. releasing
    B. relieved
    C. revise
    D. reveal

30. The authorities will have to _____ the decision if a public outcry rises.

    A. releasing
    B. relieved
    C. revise
    D. reveal

Comprehension: **Tornadoes**

[1] Tornadoes are one of the most severe types of weather phenomena. While many people fear tornadoes and their destructive power, few people understand their real causes and effects, nor are they aware of how to protect themselves from their devastating force.

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[2] Tornadoes, violently rotating columns of air, occur when a change in wind direction, coupled with an increase in wind speed, results in a spinning effect in the lower atmosphere. These **whirling** movements, which may not be visible to the naked eye, are exacerbated when the rotating air column shifts from a horizontal to a vertical position. As the revolving cloud draws in the warm air that surrounds it at ground level, its spinning motion begins to accelerate, thereby creating a funnel that extends from the cloud above it to the ground below. In this way, tornadoes become **pendent** from low pressure storm clouds.

[3] When a tornado comes into contact with the ground, it produces a strong upward draft known as a vortex, a spiraling column of wind that can reach speeds in excess of 200 miles per hour. Traveling across the landscape, the tornado wreaks a path of concentrated destruction. It is not uncommon for **these twisters** to lift heavy objects, like cars or large animals, and throw them several miles. Houses that succumb to the force of the tornado seem to explode as the low air pressure inside the vortex collides with the normal air pressure inside the buildings.

[4] Tornadoes can occur at any time of the year, but are typically most frequent during the summer months. Equally, tornadoes can happen at any time during the day, but usually occur between 3:00 in the afternoon and 9:00 in the evening. While these fierce funnels occur in many parts of the world, they are most common in the United States. { **A *** } On average, there are 1,200 tornadoes per year in this vast nation, causing 70 fatalities and 1,500 injuries.

[5] Although taking **myriad** shapes and sizes, tornadoes are generally categorized as weak, strong, or violent. The majority of all tornadoes are classified as weak, meaning that their duration is less than 10 minutes and they have a speed under 110 miles per hour. Comprising approximately 10 percent of all twisters, strong tornadoes may last for more than 20 minutes and reach speeds up to 205 miles per hour. Violent tornadoes are the rarest, occurring less than one percent of the time. While uncommon, tornadoes in this classification are the most devastating, lasting more than one hour and resulting in the greatest loss of life. { **B *** } Even though only violent tornadoes can completely destroy a well-built, solidly-constructed home, weaker ones can also cause great damage.

[6] Owing to the powerful and destructive nature of these winds, there are, perhaps not surprisingly, a number of myths and misconceptions surrounding them. For instance, many people mistakenly believe that tornadoes never occur over rivers, lakes, and oceans; yet, **waterspouts**, tornadoes that form over bodies of water, often move onshore and cause extensive damage to coastal areas. In addition, tornadoes can accompany hurricanes and tropical storms as they move to land. Another common myth about tornadoes is that damage to built structures, like houses and office buildings, can be avoided if windows are opened prior to the impact of the storm. Based on the misunderstanding that open windows might equalize the pressure inside the structure and minimize the damage to it, this action can instead result in fatal injury. { **C *** }

[7] Because of the profound effects that tornadoes have on communities and their inhabitants, safety measures are of paramount importance during adverse weather conditions. Drivers often attempt to outrun tornadoes in their cars, but it is extremely unsafe to do so. Automobiles offer very little protection when twisters strike, so drivers should abandon their vehicles and seek safe shelter. Mobile homes afford little shelter, so residents of these homes should go to an underground floor of the sturdiest nearby building. { **D *** } In the case of a building having no underground area, a person should go to the lowest floor of the building and place him or herself under a piece of heavy furniture. If no building is available, a person caught in a tornado should lie prostate in a nearby ditch or other depressed area of land and cover his or her head.

31.   The word whirling in the passage is closest in meaning to

A. invisible
B. rotating
C. extended
D. worsening

32. The word pendent in the passage is closest in meaning to

A. revolving
B. quickening
C. hanging
D. parallel

33. Which of the sentences below is the best paraphrase of the following sentence from paragraph 3?

Traveling across the landscape, the tornado wreaks a path of concentrated destruction.

A. The tornado causes great damage to landscaped areas, such as parks and gardens.
B. The tornado focuses its damage primarily upon localities that have been heavily landscaped.
C. The tornado only causes damage to open areas, but the damage is usually very severe.
D. As the tornado moves through the countryside, it causes extensive, geographically centralized damage.

34. The phrase these twisters in paragraph 3 refers to

A. tornadoes
B. concentrated destruction
C. landscapes
D. explosions

35. All of the following key facts about tornadoes are mentioned in paragraph 4 EXCEPT

A. the yearly number of deaths from tornadoes
B. the time of day when tornadoes usually take place
C. the time of year when tornadoes are most common
D. the average wind speed of most tornadoes

36. The word myriad in the passage is closest in meaning to

A. limited
B. extreme
C. many
D. average

37. In paragraph 5, what is the author's main purpose?

A. to explain how tornadoes are classified
B. to identify the most frequent type of tornadoes
C. to emphasize the loss of life and damage to property caused by tornadoes
D. to compare weak tornadoes to strong tornadoes

38. Based on the information contained in paragraph 6, which of the following best explains the term waterspouts?

A. Tornadoes that move away from coastal areas
B. Tornadoes that occur over oceans, rivers, and lakes
C. Tornadoes that occur onshore
D. Tornadoes that accompany tropical storms and hurricanes

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39. Look at the four stars { * } that indicate where the following sentence could be added to the passage.

Indeed, the highest number of deaths and injuries are not caused by the winds themselves, but by flying debris, such as broken glass from open windows.

A. { A * }
B. { B * }
C. { C * }
D. { D * }

40. According to paragraph 6, what can be inferred about the public's knowledge about tornadoes?

A. A large number of people know how to avoid tornado damage.
B. Most people appreciate the risk of death associated with tornadoes.
C. Some members of the public know how to regulate the pressure inside buildings.
D. A number of people are not fully aware of certain key information about tornadoes, especially about tornado safety.

41. What is the safest place to be when a tornado strikes?

A. an abandoned vehicle
B. mobile homes
C. the basement of a building
D. under a piece of sturdy furniture

42. According to the passage, tornadoes are considered to be a severe weather phenomenon because

A. many people fear them.
B. they produce strong vortexes.
C. they can be placed into three discrete categories.
D. they can result in death and devastation.

43. Select the answer below that represents the two most important ideas contained in the passage.

A. (i) Tornadoes can cause catastrophic loss in terms of life and property.
   (ii) Everyone should be educated about what to do in the event of a tornado.
B. (i) Most tornadoes occur in the afternoon.
   (ii) Few tornadoes are violent.
C. (i) Some members of the public are ill-informed about when and where tornadoes can occur.
   (ii) Sheltering in a ditch is a last resort if a tornado should strike.
D. (i) Most tornadoes occur in the afternoon.
   (ii) Everyone should be educated about what to do in the event of a tornado.

(Stop. Do Not Turn This Page. Wait for the invigilator's signal)

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Mathematics M.C.Q'S

No. of Questions: 40   (from 44 to 83)   Time allowed: 50 minutes
Questions on Page Numbers: 8 To 11   Negative Marking: Yes

44.   y varies directly as the cube of x. When x = 2, y = 8. If y = 512 then x equals.

    (A)   6   (B)   7   (C)   8   (D)   9

45.   If x mod y is the remainder when x is divided by y, then (51 mod 5) – (15 mod 4) =

    (A)   –2   (B)   –1   (C)   0   (D)   1

46.   If $f(x) = 5 - 2x$ and $g(x) = x^2 + 7x - 1$, then $g(f(-2)) =$

    (A)   141   (B)   142   (C)   143   (D)   None of these

47.   If the perimeter of a rectangle is 80 meters and one of its sides is one-third of the other side, then its area must be ----- square meter.

    (A)   150   (B)   200   (C)   250   (D)   300

48.   Eleventh term in an arithmetic progression is 22 and the twenty ninth is 58. The thirty first term of the progression is _____.

    (A)   58   (B)   60   (C)   62   (D)   64

49.   If 1/5 of a job can be completed in 15 minutes, how many minutes will it take to finish the job completely?

    (A)   60   (B)   75   (C)   90   (D)   105

50.   Simplify $(X^2-4)/(X+2)$

    (A) $X^2 - 2$ (B) $X - 4$ (C) $X - 2$ (D) $X + 2$

51.   A big box is 2 feet by 4 feet by 6 feet from inside. How many small boxes measuring 8 inches on each side can it hold?

    (A)   122   (B)   142   (C)   162   (D)   182

52.   The number of students enrolled in a business school in 2009 was 1600. The number increased to 1800 this year. What is the percentage increase?

    (A)   10   (B)   12.5   (C)   15   (D)   None of these

53.   A right triangle has a height of 8" and a hypotenuse of 10". What is the area of the triangle?

    (A)   40   (B)   30   (C)   20   (D)   None of these

54.   The sum of three consecutive numbers is 39. What is the middle number in this sequence?

    (A)   10   (B)   11   (C)   12   (D)   13

55.   The remainder when $f(x) = 4x^4 + 5x^3 + 6x^2 + 7x + 8$ is divided by x + 3 is

    (A)   232   (B)   230   (C)   3x + 1   (D)   x – 3

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Mathematics M.C.Q'S

56. A class room had equal number of boys and girls. Eight boys left the class, leaving twice as many girls as boys. What was the original number of boys?

   (A)   8   (B)   12   (C)   16   (D)   20

57. If $1 + 2 + 3 + ... + n = \dfrac{n(n+1)}{2} = 820$, then the value of n is

   (A)   41   (B)   40   (C)   39   (D)   38

58. Asghar has six times as much money as Wamiq. If Asghar gives Rs 40 to Wamiq, both of them will have equal amounts of money. How much money did Asghar have at the beginning?

   (A)   Rs 96   (B)   Rs 16   (C)   Rs 46   (D)   Rs 8

59. Given the system of linear equations $x + 2y + 3z = 4, 4x + 5y + 6z = 7, 7x + 8y + 9z = 10$. One of the following is not a solution of this system.

   (A) $(-2, 3, 0)$ (B) $(-1, 1, 1)$ (C) $(0, -1, 2)$ (D) $(0, 1, 1)$

60. Which of the following has the greatest value?

   (A) 3^5 (B) 9^3 (C) 27^2 (D) 81^2

61. In a triangular park, trees are planted in rows such that the first row has only one tree and every successive row has one more tree. If there are 10 such rows of trees the total number of trees in the park is _____.

   (A)   45   (B)   55   (C)   27   (D)   None of these

62. The circle $(x + 1)^2 + (y - 4)^2 = 17$ intersects the x-axis at origin and also at _____.

   (A) $(-2, 0)$ (B) $(0, -2)$ (C) $(+2, 0)$ (D)   None of these

63. The Airport Taxi service charges Rs 300 plus Rs 10 for every half a kilometer travelled. A passenger travelled k kilometers and 500 meters. Total amount to be paid is _____.

   (A) $310 + 10k$ (B) $300 + 5k$ (C) $310 + 20k$ (D) $300 - 20$

64. If $p = \dfrac{3}{7}, q = \dfrac{1}{5}$ and $r = \dfrac{2}{5}$ then $14p - \dfrac{9r^2}{4q^2} = $ _____.

   (A)   15/4   (B)   15   (C) -3 (D)   None of these

65. The inverse of $\begin{bmatrix} 6 & 2 \\ 3 & 1 \end{bmatrix}$ is

   (A) $\begin{bmatrix} 6 & 2 \\ 3 & 1 \end{bmatrix}$ (B) $\begin{bmatrix} -6 & -2 \\ 3 & 1 \end{bmatrix}$ (C) $\begin{bmatrix} 2 & 1 \\ 6 & 3 \end{bmatrix}$ (D)   None of these

66. Suppose that x = 2 is a solution of the equation $x^2 + kx + 16 = 0$. The value of k is

   (A)   8   (B) -10 (C)   10   (D)   None of these

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Mathematics M.C.Q'S

67. If the integer 50 is the fifth integer of nine consecutive integers, then the average of these integers is

   (A)   25   (B)   50   (C)   75   (D)   100

68. Solve for x: $\dfrac{2}{x-1} = \dfrac{6}{x+2}$

   (A)   2/5   (B)   5/2   (C)   6/5   (D)   9/2

69. The median of 20, 30, 60, 80, 100, 120 is _____.

   (A)   60   (B)   70   (C)   80   (D)   100

70. The set of values of x satisfying the inequality $9 - x > 7 + x$ is given by

   (A) $x < 1$ (B) $x > 1$ (C) $x > 0$ (D) $x < 0$

71. What is the value of x if $y = 3$ in the expression $2x - 3y = -6$?

   (A)   1.5   (B)   2   (C)   2.5   (D)   3

72. If $x + y = 3$ and $y/x = 2$ then $x = $?

   (A)   0   (B)   1   (C)   2   (D)   ½

73. $2\sqrt{27} - \sqrt{75} + \sqrt{12} + 6\sqrt{3}$

   (A) $3\sqrt{3}$ (B) $6\sqrt{3}$ (C) $9\sqrt{3}$ (D) $12\sqrt{3}$

74. In a class of 20 students in an examination, two students scored 75 marks each, three got zero each, and the average of the rest was 30. What is the average of the whole class?

   (A)   10   (B)   30   (C)   40   (D)   50

75. A father is four times as old as his son. In 20 years he will only be twice as old as his son. Find their ages?

   (A) 50 and 15 Years   (B) 45 and 15 Years   (C) 60 and 30 Years   (D) 40 and 10 Years

76. Which of the following number is irrational?

   (A) $\dfrac{22}{7}$ (B) $\dfrac{4}{5}$ (C) $\sqrt{3}$ (D) $\sqrt{9}$

77. The value of $x^2 + y^2$ when $x - y = 6$, $x + y = 12$ is

   (A)   80   (B)   90   (C)   100   (D)   None of these

78. If $\log_3 x = 4$, then value of x is

   (A)   12   (B)   81   (C)   64   (D)   None of these

Go On To The Next Page

Mathematics M.C.Q'S

79. It is given that the determinant of the matrix $\begin{bmatrix} 1 & 2 \\ 3 & x \end{bmatrix}$ is 50. The value of x must be

(A) 52 (B) 56 (C) 60 (D) 64

80. The factored form of $2x^2 + 6x + 4$ is

(A) $(x+1)(x+2)$ (B) $2(x-1)(x+2)$ (C) $2(x-1)(x-2)$ (D) None of these

81. Mr. Zubair was teaching a class comprising of five females and four males students. During the class he conducted a quiz. The average score of the class was nine and the average score of a male student was ten. What is the average score of a female student?

(A) 10 (B) 11 (C) 12 (D) None of these

82. If $|x| > x$ and $x^2 + x = 6$, then $x + 9 =$

(A) 6 (B) –6 (C) 11 (D) –11

83. The probability density function of a discrete random variable X (which can assume only five values: 0, 1, 2, 3, 4) is given by:

x	0	1	2	3	4
P(x)	1/16	1/4	n	1/4	1/16

What is the value of n?

(A) 3/8 (B) 3/4 (C) 3/2 (D) None of these

Multiple choice sections are complete.
Now wait for the instructions to start the essay writing part.