

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

English M.C.Q's

No. of Questions: 40 (from 1 to 40)
 Questions on Page Nos: 1 To 6

Time: 40 Minutes
 Negative markings: Yes

Qs 1-10 Choose the word or phrase that best completes the sentence

1. To reach Simonville, the traveler needs to drive with extreme caution along the ____ curves of the mountain road that climbs ____ to the summit.
 A. serpentine - steeply
 B. jagged - steadily
 C. gentle - precipitously
 D. shady - steadily

2. The cricket match seemed ____ to our guests; they were used to watching sports in which the action is over in a couple of hours at the most.
 A. unintelligible
 B. inconsequential
 C. interminable
 D. implausible

3. Our present accountant is most ____; unlike the previous ____ incumbent, he has never made a mistake in all the years that he has worked for the firm.
 A. unorthodox - heretical
 B. dependable - assiduous
 C. punctilious - painstaking
 D. meticulous - unreliable

4. The refugee's poor grasp of English is hardly an ____ problem; she can attend classes and improve within a matter of months.
 A. implausible
 B. insuperable
 C. inconsequential
 D. evocative

5. We appreciated his ____ summary of the situation; he wasted no words yet delineated his position most ____.
 A. comprehensive : inadequately
 B. succinct : direfully
 C. cogent : persuasively
 D. verbose : concisely

6. His musical tastes are certainly ____; he has recordings ranging from classical piano performances to rock concerts, jazz and even Chinese opera.
 A. antediluvian
 B. eclectic
 C. harmonious
 D. sonorous

7. I cannot conclude this preface without ____ that an early and untimely death should have prevented Persius from giving a more finished appearance to his works.
 A. rejoicing
 B. lamenting
 C. affirming
 D. commenting

8. Before his marriage the Duke had led an austere existence and now regarded the affectionate, somewhat ____ behavior of his young wife as simply ____.
 A. restrained - despicable
 B. childish - elevating
 C. playful - sublime
 D. frivolous - puerile

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9. Wilson ____ that human beings inherit a tendency to feel an affinity and awe for other living things, in the same way that we are ____ to be inquisitive or to protect our young at all costs.

- A. argues - encouraged
- B. maintains - trained
- C. contends - predisposed
- D. fears - taught

10. The pond was a place of reek and corruption, of ____ smells and of oxygen-starved fish breathing through laboring gills.

- A. fragrant
- B. evocative
- C. dolorous
- D. fetid

Qs 11-20 Choose the correct answer option

11. devilry

- A. to deny oneself
- B. malicious mischief
- C. to make more sharp, severe, or virulent
- D. the having, holding, or detention of property in one's power or command

12. generalize

- A. a person to whom a donation is made
- B. to draw general inferences
- C. ease
- D. a meeting of spirituals for consulting spirits

13. reactionary

- A. expressing or causing sorrow or pain
- B. pertaining to
- C. a falling of the spirits
- D. oppressive drowsiness

14. to prolong

- A. disposition
- B. despond
- C. indulgent
- D. protract

15. n. a related group of words containing a subject and a predicate and expressing a complete thought

- A. symmetrical
- B. dissolute
- C. sentence
- D. none of these

16. sibilate

- A. to give a hissing sound to, as in pronouncing the letters
- B. a vehement appeal
- C. the quality of frankness or outspokenness
- D. the face, countenance, or look of a person

17. imbibe

- A. illogical
- B. to drink or take in
- C. pertaining to ancient times
- D. to enlist men for military or naval service

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18. corporeal
 A. not harsh
 B. slight sickness
 C. to prevent or obstruct the operation of
 D. of a material nature; physical
19. answering yes; to a question at issue
 A. exasperate
 B. affirmative
 C. cosmopolitanism
 D. chastity
20. to drive away by or as by scattering in different directions
 A. dispel
 B. afire
 C. clan
 D. squalid

Reading Comprehension

Qs 21-30 Read the passage and choose the option that best answer the questions

That large animals require a luxuriant vegetation, has been a general assumption which has passed from one work to another; but I do not hesitate to say that it is completely false, and that it has **vitiating** the reasoning of geologists on some points of great interest in the ancient history of the world. **The prejudice** has probably been derived from India, and the Indian islands, where troops of elephants, noble forests, and impenetrable jungles, are associated together in every one's mind. If, however, we refer to any work of travels through the southern parts of Africa, we shall find allusions in almost every page either to the desert character of the country, or to the numbers of large animals inhabiting it. The same thing is rendered evident by the many engraving which have been published of various parts of the interior.

10 Dr. Andrew Smith, who has lately succeeded in passing the Tropic of Capricorn, informs me that, taking into consideration the whole of the southern part of Africa, there can be no doubt of its being a sterile country. On the southern coasts there are some fine forests, but with these exceptions, the traveler may pass for days together through open plains, covered by a poor and scanty vegetation. Now, if we look to the animals inhabiting these wide plains, we shall find their numbers extraordinarily great, and their bulk immense. We must enumerate the elephant, three species of rhinoceros, the hippopotamus, the giraffe, the bos caffer, two zebras, two gnus, and several antelopes even larger than these latter animals. It may be supposed that although the species are numerous, the individuals of each kind are few. By the kindness of Dr. Smith, I am enabled to show that the case is very different. He informs me, that in lat. 24', in one day's march with the bullock wagons, he saw, without wandering to any great distance on either side, between one hundred and one hundred and fifty rhinoceroses - the same day he saw several herds of giraffes, amounting together to nearly a hundred. At the distance of a little more than one hour's march from their place of encampment on the previous night, his party actually killed at one spot eight hippopotamuses, and saw many more. In this same river there were likewise crocodiles. Of course it was a case quite extraordinary, to see so many great animals crowded together, but it evidently proves that they must exist in great numbers. Dr. Smith describes the country passed through that day, as 'being thinly covered with grass, and bushes about four feet high, and still more thinly with mimosa-trees.'

28 Besides these large animals, every one the least acquainted with the natural history of the Cape, has read of the herds of antelopes, which can be compared only with the **flocks of migratory birds**. The numbers indeed of the lion, panther, and hyena, and the multitude of birds of prey, plainly speak of the abundance of the smaller quadrupeds: one evening seven lions were counted at the same time prowling round Dr. Smith's encampment. As this able naturalist remarked to me, **the carnage** each day in Southern Africa must indeed be terrific! I confess it is truly surprising how such a number of animals can find support in a country producing so little food. The larger quadrupeds no doubt roam over wide tracts in search of it; and their food chiefly consists of underwood, which probably contains much nutriment in a small bulk. Dr. Smith also informs me that the vegetation has a rapid growth; no sooner

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is a part consumed, than its place is supplied by a fresh stock. There can be no doubt, however, that our ideas respecting the apparent amount of food necessary for the support of large quadrupeds are much exaggerated.

The belief that where large quadrupeds exist, the vegetation must necessarily be luxuriant, is the more remarkable, because the converse is far from true. Mr. Burchell observed to me that when entering Brazil, nothing struck him more forcibly than the splendor of the South American vegetation contrasted with that of South Africa, together with the absence of all large quadrupeds. In his Travels, he has suggested that the comparison of the respective weights (if there were sufficient data) of an equal number of the largest herbivorous quadrupeds of each country would be extremely curious. If we take on the one side, the elephants hippopotamus, giraffe, bos caffer, elan, five species of rhinoceros; and on the American side, two tapirs, the guanaco, three deer, the vicuna, peccari, capybara (after which we must choose from the monkeys to complete the number), and then place these two groups alongside each other it is not easy to conceive ranks more disproportionate in size. After the above facts, we are compelled to conclude, against **anterior probability**, that among the mammalia there exists no close relation between the bulk of the species, and the quantity of the vegetation, in the countries which they inhabit.

21. The author is primarily concerned with
 - A. discussing the relationship between the size of mammals and the nature of vegetation in their habitats
 - B. contrasting ecological conditions in India and Africa
 - C. proving the large animals do not require much food
 - D. describing the size of animals in various parts of the world
22. The word **vitiated** (line 2) most nearly means
 - A. infiltrated
 - B. occupied
 - C. impaired
 - D. invigorated
23. According to the author, **prejudice** (line 4) has led to
 - A. errors in the reasoning of biologists
 - B. false ideas about animals in Africa
 - C. incorrect assumptions on the part of geologists
 - D. doubt in the mind of the author
24. The author uses information provided by Dr. Smith to
 - I supply information on quality and quantity of plant life in South Africa
 - II indicate the presence of large numbers of animals
 - III give evidence of numbers of carnivorous animals
 - A. II only
 - B. I and II only
 - C. III only
 - D. I, II and III
25. The flocks of migratory birds are mentioned to
 - A. describe an aspect of the fauna of South Africa
 - B. illustrate a possible source of food for large carnivores
 - C. contrast with the habits of the antelope
 - D. suggest the size of antelope herds
26. The **carnage** (line 32) refers to the
 - A. number of animals killed by hunters
 - B. number of prey animals killed by predators
 - C. number of people killed by lions
 - D. amount of food eaten by all species

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27. The author makes his point by reference to all of the following except

- A. travel books
- B. published illustrations
- C. private communications
- D. historical documents

28. Darwin quotes Burchell's observations in order to

- A. counter a popular misconception
- B. describe a region of great splendor
- C. prove a hypothesis
- D. illustrate a well-known phenomenon

29. Darwin apparently regards Dr. Smith as

- A. reliable and imaginative
- B. intrepid and competent
- C. observant and excitable
- D. foolhardy and tiresome

30. Anterior probability refers to

- A. what might have been expected
- B. ideas of earlier explorers
- C. likelihood based on data from India
- D. hypotheses of other scientists

Qs 31-40 Choose the option that best replace the underlined part.

31. Inertia-gravity waves cause characteristic stripy patterns in the clouds in the lower atmosphere but they are disregarded by conventional weather forecasts because they are thought to be too small to interact with larger systems such as warm and cold fronts.

- A. they are disregarded by conventional weather forecasts because they are thought to be too small
- B. they are disregarded by conventional weather forecasts because these waves are thought to be too small
- C. conventional weather forecasts disregard them because they think they are too small
- D. conventional weather forecasts disregard these waves because they are thought to be too small

32. In archeological terms the university was a latecomer to the town, which was already centuries old by the time we first hear of the establishment of a community of scholars and teachers in the late 12th Century.

- A. which was already centuries old by the time we first hear of the establishment of
- B. already centuries old by the time we first hear of its establishment of
- C. which was centuries old already when we first hear of the establishment of
- D. that was already centuries old by the time we first are hearing of the establishing of

33. The recent photographs of the giant squid are remarkable because they show these enormous living creatures as moving around in their natural environment, whereas previous pictures have been of only dead animals.

- A. because they show these living creatures as moving around in their
- B. in that they show this most enormous of living creatures moving around in its
- C. in that they show this enormous living creature moving around in its
- D. because these enormous living creatures are shown to be moving around in their

34. It is usual for scientists and social scientists to abandon their theories only if another more attractive theory comes along and not when they have been proved incorrect.

- A. their theories only if another more attractive theory comes along and not when they have been proved incorrect
- B. a theory not because it has been proved incorrect, but because another more attractive theory comes along
- C. their theories not when they have been proved incorrect, but because other more attractive theories come along
- D. a theory only when other more attractive ones come along, rather than when they are proved wrong

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35. 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. omitting the names of the worst hurricanes
- C. the names of the worst hurricanes being omitted
- D. after they have omitted the names of the worst hurricanes

36. Dunbar argues that gossip is important in human societies in the maintenance of social cohesion, just as social grooming does for other primates.

- A. gossip is important in human societies in the maintenance of social cohesion, just as social grooming does for other primates
- B. gossip is important in the maintenance of social cohesion in human society, just as social grooming does for other primates
- C. in human societies gossip is important in social cohesion like social grooming for other primate societies
- D. gossip is important in human societies in the maintenance of social cohesion, just as social grooming is in other primate groups

37. A teacher at the school acknowledged that, despite government sponsored endeavors to improve classroom performance, an extraordinary high percentage of their students fail to gain admission to higher education.

- A. an extraordinary high percentage of their students fail to gain admission to higher education
- B. an extraordinarily high percentage of its students fail to gain admission to higher education
- C. an extraordinary high percentage of its students fails to gain admission to higher education
- D. the percentage of their students failing to gain admission to higher education is extraordinarily high

38. Wordsworth was one of the first European poet to consider the lowliest members of society to be valid subjects for poetry.

- A. European poet to consider the lowliest members of society to be
- B. of European poets to consider the lowliest members of society to be
- C. European poets to consider the lowliest members of society as
- D. European poets to consider the lowliest members of society

39. A course of cognitive behavior therapy can be as effective, if not more so, than drug therapy and without the side effects, in helping the elderly to overcome insomnia.

- A. as effective, if not more so, than drug therapy and without the side effects, in helping the elderly to overcome insomnia
- B. more effective than drug therapy and without the side effects, in helping the elderly to overcome insomnia
- C. at least as effective in helping the elderly overcome insomnia as drug therapy, and is without the side effects of drug treatment
- D. at least as effective as drug therapy in helping the elderly to overcome insomnia without side effects

40. Until the European Convention on Human Rights came into effect in 2000, no law of privacy was as yet acknowledged by British courts.

- A. no law of privacy was as yet acknowledged by British courts
- B. British courts did not acknowledge a law of privacy
- C. the courts in Britain had not acknowledged a law of privacy
- D. a law of privacy was not acknowledged by the courts in Britain

Writing Task

Your Name _____

Word Count: 350

Suggested Time: 45 minutes

It is often stated that television news programmes give a distorted view of life because they report only the sensational.

Argue for or against this proposition. Provide appropriate support each of your points. Make sure that your main argument is stated clearly and placed appropriately.

Your answer should comprise:

- | | | |
|------|---------------------------|-----------------|
| i. | Outline | (5 minutes) |
| ii. | First draft with revision | (20-25 minutes) |
| iii. | Final draft | (15-20 minutes) |

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Mathematics M.C.Q's

No. of Questions: 40 (from 41 to 80)
 Questions on Page Nos: 7 To 10

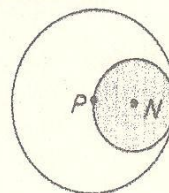
Time allowed: 40 Minutes
 Negative markings: Yes

- Q41 Freed and Sami are standing 45 miles apart and they start walking toward each other at the exact same moment. If Freed's speed is 4 miles per hour and Sami's speed is 5 miles per hour, how many miles has Sami walked when they meet?
 A) 5 B) 20 C) 25 D) 30
- Q42 If Sami can finish a job in 3 hours and Maria can finish the same job in 12 hours; in how many hours could they finish the job if they worked on it together at their respective rates?
 A) 2 B) 2.4 C) 3.25 D) 4
- Q43 There are eight job applicants sitting in a waiting room – four women and four men. If two of the applicants are selected at random, what is the probability that both will be the men?
 A) $\frac{1}{2}$ B) $\frac{3}{7}$ C) $\frac{3}{14}$ D) $\frac{1}{10}$
- Q44 At a restaurant, you must choose an appetizer, a main course and a desert. If there are two possible appetizers, three possible main courses, and five possible deserts, how many different meals one can order?
 A) 10 B) 20 C) 30 D) 40
- Q45 A circle C is inscribed inside square $ABCD$. What is the ratio of the area of square $ABCD$ to the area of circle C ?
 A) $\frac{\pi}{2}$ B) $\frac{\pi}{4}$ C) $\frac{4}{\pi}$ D) $\frac{2}{\pi}$
- Q46 In a certain budget, 30 percent of the money goes toward housing cost and, of that portion, 20 percent goes toward rent. If the amount of money that goes toward rent is Rs 6,300, what is the total amount of budget?
 A) Rs 168,000 B) Rs 210,000 C) Rs 105,000 D) Rs 756,000
- Q47 If $2^{(3y)} = 16^{(y-2)}$, then value of y is
 A) -3 B) 2 C) 8 D) 5
- Q48 If the length and the width of a patio were each increased by 30 percent, what would be the percent increase in the area of the patio?
 A) 9% B) 24% C) 69% D) 26%
- Q49 Amana is a salesperson. Each month, she earns a salary of Rs 48,000 plus 5 percent of the amount of her total sales that exceeds Rs 100,000 for the month. If Amana earned a total of Rs 76,000 one month, what were her total sales that month?
 A) Rs 560,000 B) Rs 660,000 C) Rs 330,000 D) Rs 600,000
- Q50 Fraz purchased brand R pens for Rs 330 per box and brand S pens for Rs 200 per box. If Fraz Q purchased a total of 12 boxes of pens for Rs 3700, how many boxes of brand S pens did he purchase?
 A) 10 B) 5 C) 3 D) 2
- Q51 The base and height of a right angled triangle are b and $\frac{b}{2}$ feet respectively. If $b^2 = 10,000$, what is the area of the triangle in square feet?
 A) 10,000 B) 5,000 C) 2,500 D) $50\sqrt{6}$

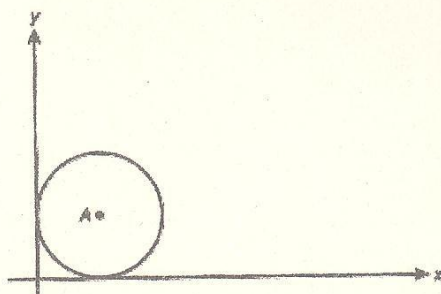
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- Q52 In the figure below, P is centre of the larger circle, and N is the centre of the smaller circle. If the radius of the smaller circle is five, what is the area of the larger circle?



- A) 100π B) 75π C) 25π D) 20π
- Q53 If $\frac{1}{x} + \frac{1}{y} = 5$ $xy = 6$, then $(x + y)^2 =$
A) 800 B) 900 C) 880 D) 9800
- Q54 If $3a = 7b$ and $3b = 9$, what is the value of $2a^2 + 3b^2$?
A) 129 B) 125 C) 36 D) 39
- Q55 In the xy coordinate system, if (r, s) and $(r - 2, s + t)$ are two points on the line defined by the equation $y = 2x - 3$, then $t =$
A) 1 B) -1 C) 4 D) -4
- Q56 If 9 more than n is a positive number and 6 more than n is a negative number, which of the following could be the value of n ?
A) -6 B) -9 C) -7 D) None of these



- Q57 The circle with center A , shown above, is tangent to both the x and y axes. If the distance from the origin $(0, 0)$ to A is equal to 8, what is the diameter of the circle?
A) 4 B) $2\sqrt{2}$ C) $4\sqrt{2}$ D) $8\sqrt{2}$
- Q58 If p is the greatest prime factor of 330 and q is the greatest prime factor of 130, then what is the value of $p - q$?
A) 2 B) -2 C) 5 D) -5
- Q59 There are 30 more girls than boys enrolled in the summer art program. If there are g girls enrolled, then in terms of g , what percentage of those enrolled are boys?
A) $\frac{g-30}{2g-30}$ B) $\frac{50(g-30)}{2g-30}$ C) $\frac{50(g-30)}{g-15}$ D) $\frac{50(g-30)}{g-30}$
- Q60 What must be the slope of a straight line which contains the points $(2, 7)$ and $(-3, 6)$?
A) 5 B) 0.2 C) 2 D) 4
- Q61 If $|4 - 3z| > 8$, which of the following is not a possible value of z ?
A) -6 B) 6 C) -1 D) 5

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- Q62 The smallest integer of a set of consecutive odd integers is -31 . If the sum of these integers is also -31 , how many integers are in this set?
 A) 34 B) 33 C) 32 D) 31
- Q63 The arithmetic mean of a data set is 46 and the standard deviation of the set is 4. Which of the following contains the interval two standard deviations from the mean of the set?
 A) 38 to 46 B) 38 to 54 C) 42 to 50 D) 46 to 50
- Q64 If $x^2 - 2y^2 = 100$ and $5x^2 + 8y^2 = 500$, then $x^2 + y^2 =$
 A) 500 B) 300 C) 100 D) None of these
- Q65 If a student allocated one-third of his annual budget for rent, one-quarter for tuition, one-sixth for living expenses, and the remaining Rs 36,000 for recreation, what was his total annual budget?
 A) Rs 72,000 B) Rs 144,000 C) Rs 432,000 D) None of these
- Q66 The average of 5 consecutive integers starting with m as the first integer is n . What is the average of 9 consecutive integers that also start with m ?
 A) $m + 6$ B) $m + 8$ C) $n + 2$ D) $n + 4$
- Q67 The sum of the fourth and twelfth term of an arithmetic progression is 100. What is the value of the eighth term of the arithmetic progression?
 A) 200 B) 150 C) 100 D) 50
- Q68 Set A contains all the odd numbers between 2 and 50. Set B contains all the odd numbers between 102 and 150. What is the difference between the sum of elements of set B and that of set A?
 A) 2200 B) 2300 C) 2400 D) 2500
- Q69 If the mean of numbers 28, 155, 411, 806 and x is 295, then what is the mean of 31, x , 32, 68 and 94?
 A) 25 B) 81 C) 60 D) None of these
- Q70 The average of 10 quantities is 7. The average of 7 of them is 7. What is the average of the remaining three quantities?
 A) 4 B) 5 C) 6 D) 7
- Q71 Which of the following inequalities have a finite range of values of " x " satisfying them?
 A) $x^2 + 5x - 6 > 0$ B) $|x - 2| > 4$ C) $6x - 21 > 0$ D) $x^2 - 7x + 10 < 0$
- Q72 If the average of the set of numbers $\{3, 5, 9, 13, y\}$ is equal to the median of the same set of numbers, then the value of y must be:
 A) 7 B) 8 C) 10 D) 15
- Q73 What is the measure of the radius of the circle that circumscribes a triangle whose sides measure 9, 40 and 41?
 A) 6 B) 4 C) 24.5 D) 20.5
- Q74 If the sum of the interior angles of a regular polygon measures up to 1800 degrees, how many sides does the polygon have?
 A) 10 sides B) 12 sides C) 14 sides D) None of these

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Q75 The sum of four consecutive integers is 54. What is the smallest integer in this sequence?

- A) 11
- B) 12
- C) 13
- D) 14

Q76 If $\frac{3}{5}$ of a car fuel tank can be filled in 72 seconds, how many seconds will it take to fill the tank completely?

- A) 90 seconds
- B) 100 seconds
- C) 110 seconds
- D) 120 seconds

Q77 A farmer has tied a goat to a pole at the corner of a square field. The field is 24 meters on each side and the rope is 12 meters in length. What percentage area of the field can the goat graze?

- A) 17.75%
- B) 18.65%
- C) 19.63%
- D) 21.25%

Q78 If the circumference of a certain circle is 8π , what is the radius of that circle?

- A) 2π
- B) 4π
- C) 4
- D) 8

Q79 Suppose the variables x , y , and z satisfy the following linear equations:

$$2x + y - z = 100 \text{ and } x + 2y + 4z = 200.$$

What is the sum of x , y , and z ?

- A) 100
- B) 200
- C) 300
- D) 400

Q80 The base of a right angled triangle is of length 3 cm. If the area of the same triangle is 6 cm^2 , then its hypotenuse must be of length

- A) 4 cm
- B) 5 cm
- C) 6 cm
- D) 7 cm

(Stop. M.C.Q's part is finished, please wait for the Essay Part.)