1

English M.C.Q's

No. of Questions: 45 (from 1 to 45)   Time: 45Minutes
Questions on Page Numbers: 1 To 8   Negative markings: **Yes**

For questions 1-14, select the best option.

1 stolid
- A. Showing little emotion
- B. sermon
- C. one who leads a simple life
- D. rebellious

2 impolitic
- A. split
- B. unwise
- C. unfortunate
- D. separate

3 potent
- A. glory
- B. gentle wind
- C. moral corruption
- D. having great power

4 discerning
- A. distinguishing one thing from another
- B. to characterize as disgraceful
- C. having great physical strength
- D. to show sympathy for

5 encroach
- A. acting as a director
- B. carefree
- C. to trespass or intrude
- D. severity

6 callow
- A. being young or immature
- B. sweet-smelling flower
- C. vague
- D. solitary

7 hamper
- A. plausible but deceptive
- B. pertaining to shepherds or the country
- C. renovate
- D. interfere

8 tepid
- A. having the composition of wood
- B. unnecessary; extra
- C. of strange nature; weird
- D. lacking warmth

9 neologism
- A. giving a new meaning to an old word
- B. presenting a new trend in architecture
- C. presenting old ideas as new
- D. presenting a new genre in literature

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

10 frenetic

    A. agitation
    B. thrift
    C. frenzied
    D. collaborative

11 baffle

    A. a learned Muslim scholar
    B. appease
    C. kinship
    D. frustrated; perplexed

12 bigotry

    A. stubborn intolerance
    B. enlarge
    C. transparent
    D. famine

13 disfigure

    A. missile
    B. mar the appearance
    C. long, eventful journey
    D. intrinsic motivation; driving force

14 recuperate

    A. pertaining to matrimony
    B. recover
    C. to wind
    D. ostracize; banish

For questions 15- 31, select the best option.

15.

Scientists have observed pig cells in the culture producing copies of the viral DNA using an electron microscope.

    A. Scientists have observed pig cells in the culture producing copies of the viral DNA using an electron microscope.
    B. In the culture, scientists have observed pig cells producing copies of the viral DNA using an electron microscope.
    C. In the culture, scientists using an electron microscope have observed pig cells in the culture producing copies of the viral DNA.
    D. Using an electron microscope, scientists have observed pig cells in the culture producing copies of the viral DNA.

16.

Manchester United is one of the most famous and financially successful football clubs in the world, being recognised in virtually every country, even those with little interest in the sport.

    A. even those with
    B. even by those having
    C. even in those where there is
    D. especially by those having

3

17.

The strength of a carbon-chlorine bond is stronger than that of a carbon-bromine bond, <u>which is
in turn greater than</u> a carbon-iodine bond.

        A. which is in turn greater than
        B. which is in turn stronger than
        C. that is in turn greater than
        D. that is in turn stronger than

18.

Princess Diana's dresses set the standard for all fashion houses in Europe. Such a thing <u>didn't
happen before or</u> since.

        A. didn't happen before or
        B. had neither happened before or
        C. didn't happen before and hasn't happened
        D. hadn't happened before and hasn't happened

19.

Since 1970 the number of Blacks elected to state and federal offices in the United States <u>has
multiplied nearly four times</u>.

        A. has multiplied nearly four times
        B. has almost quadrupled
        C. has almost multiplied by four
        D. is almost four times as great

20.

India is country with at least fifty major regional languages, <u>of whom fourteen
have official recognition</u>.

        A. of whom fourteen have official recognition
        B. fourteen that have official recognition
        C. fourteen of which are officially recognized
        D. fourteen that are officially recognized

21.

Wind resistance created by opening windows while driving results in a fuel penalty <u>as great or
greater than is incurred by using air conditioning</u>.

        A. as great or greater than is incurred by using air conditioning
        B. that is as great or greater than is incurred using air conditioning
        C. as great as or greater than that of using air conditioning
        D. at least as great as that incurred by using air conditioning

22.

At the time of the Mexican agrarian revolution, the most radical faction, that of Zapata and his
followers, proposed a return to communal ownership of <u>land, to what had been a pre-Columbian
form of ownership respected by the Spaniards</u>.

        A. land, to what had been a pre-Columbian form of ownership respected by the
           Spaniards
        B. land, a form of ownership of the pre-Columbians and respected by the Spaniards
        C. land, respected by the Spaniards and a pre-Columbian form of ownership
        D. land in which a pre-Columbian form of ownership was respected by the Spaniards

4

23.

Some of the tenth-century stave churches of Norway are still standing, demonstrating that with sound design and maintenance, wooden buildings can last indefinitely.

    A. standing, demonstrating that with sound design and maintenance, wooden buildings can last indefinitely

    B. standing, demonstrating how wooden buildings, when they have sound design and maintenance, can last indefinitely

    C. standing; they demonstrate if a wooden building has sound design and maintenance it can last indefinitely

    D. standing, and they demonstrate wooden buildings can last indefinitely when there is sound design and maintenance

24.

In the United States, trade unions encountered far more intense opposition against their struggle for social legitimacy than the organized labor movements of most other democratic nations.

    A. against their struggle for social legitimacy than

    B. in their struggle for social legitimacy than did

    C. against their struggle for social legitimacy as

    D. in their struggle for social legitimacy as did

25.

For many people, household labor remains demanding even if able to afford household appliances their grandparents would find a miracle.

    A. even if able to afford household appliances their grandparents would find a miracle

    B. despite being able to afford household appliances their grandparents would find a miracle

    C. even if they can afford household appliances their grandparents would have found miraculous

    D. although they could afford household appliances their grandparents would find miraculous

26.

In the most common procedure for harvesting forage crops such as alfalfa, as much as 20 percent of the leaf and small-stem material, which is the most nutritious of all the parts of the plant, shattered and fell to the ground.

    A. which is the most nutritious of all the parts of the plant, shattered and fell

    B. the most nutritious of all parts of the plant, shatter and fall

    C. the parts of the plant which were most nutritious, will shatter and fall

    D. the most nutritious parts of the plant, shatters and falls

27.

Researchers at Cornell University have demonstrated that homing pigeons can sense changes in the earth's magnetic field, see light waves that people cannot see, detect low-frequency sounds from miles away, sense changes in air pressure, and can identify familiar odors.

    A. sense changes in air pressure, and can identify familiar odors

    B. can sense changes in air pressure, and can identify familiar odors

    C. sense changes in air pressure, and identify familiar odors

    D. air pressure changes can be sensed, and familiar odors identified

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28.

In ancient times, Nubia was the principal corridor where there <u>were cultural influences
transmitted between</u> Black Africa and the Mediterranean basin.

    A. where there were cultural influences transmitted
    B. through which cultural influences were transmitted
    C. where there was a transmission of cultural influences
    D. for the transmitting of cultural influences

29.

It is a special feature of cell aggregation in the developing nervous system that in most regions of
the brain the cells not only adhere <u>to one another and also adopt</u> some preferential orientation.

    A. to one another and also adopt
    B. one to the other, and also they adopt
    C. one to the other, but also adopting
    D. to one another but also adopt

30.

Among the reasons for the decline of New England agriculture in the last three decades were
the high cost of land, the pressure of housing and commercial development, and <u>basing a
marketing and distribution system on importing produce from Florida and California.</u>

    A. basing a marketing and distribution system on importing produce from Florida
       and California
    B. basing a marketing and distribution system on the imported produce of Florida
       and California
    C. basing a system of marketing and distribution on the import of produce from
       Florida and California
    D. a marketing and distribution system based on importing produce from Florida and
       California

31.

<u>Like Byron</u> at Missolonghi, Jack London was slowly killed by the mistakes of the medical men
who treated him.

    A. Like Byron
    B. Like Byron's death
    C. Just as Byron died
    D. Similar to Byron

For questions 32-39, select the best option.

32.
No national productivity measures are available for underground industries that may exist but
remain unreported. On the other hand, at least some industries that are run entirely by self-
employed industrialists are included in national productivity measures.

    From the information given above, it can be validly concluded that
    A. there are at least some industries run entirely by self-employed industrialists that
       are underground industries
    B. no industries that are run entirely by self-employed industrialists operate
       underground
    C. there are at least some industries other than those run entirely by self-employed
       industrialists that are underground industries
    D. there are at least some industries run entirely by self-employed industrialists that
       are not underground industries

6

33.

Lou observes that if flight 409 is canceled, then the manager could not possibly arrive in time for the meeting. But the flight was not canceled. Therefore, Lou concludes, the manager will certainly be on time. Evelyn replies that even if Lou's premises are true, his argument is fallacious. And therefore, she adds, the manager will not arrive on time after all.

Which of the following is the strongest thing that we can properly say about this discussion?
- A. Evelyn is mistaken in thinking Lou's argument to be fallacious, and so her own conclusion is unwarranted.
- B. Evelyn is right about Lou's argument, but nevertheless her own conclusion is unwarranted.
- C. Since Evelyn is right about Lou's argument, her own conclusion is well supported.
- D. Since Evelyn is mistaken about Lou's argument, her own conclusion must be false.

34.

Sally has never received a violation from the Federal Aviation Administration during her 16-year flying career. Sally must be a great pilot.

Which of the following can be said about the reasoning above?
- A. The definitions of the terms create ambiguity.
- B. The argument uses circular reasoning.
- C. The argument works by analogy.
- D. The argument is built upon hidden assumptions.

35.

The Japanese economic model created strong domestic industries through subsidies from its Ministry of Trade and by closing off competitive foreign firms to its domestic market. This strategy promised to help economic growth by incubating domestic industries. New Japanese industries could count on a known local demand and would be protected from competition by tariffs and other barriers. The program could reduce the amount of imports and therefore improve the nation's balance of trade.

Which of the following, based on the passage above, is a weakness in this economic strategy?
- A. A protectionist policy will create animosity among other nations.
- B. Fast growth of small industries will create a class of millionaires and increase the inequality of income.
- C. Subsidies and import constraints keep domestic prices high and impose a burden on consumers.
- D. Quotas are more regressive than tariffs.

36.

Historically, famines have generally been followed by periods of rising wages, because when a labor force is diminished, workers are more valuable in accordance with the law of supply and demand. The Irish potato famine of the 1840s is an exception; it resulted in the death or emigration of half of Ireland's population, but there was no significant rise in the average wages in Ireland in the following decade.

Which one of the following, if true, would LEAST contribute to an explanation of the exception to the generalization?
- A. Improved medical care reduced the mortality rate among able-bodied adults in the decade following the famine to below prefamine levels.
- B. Eviction policies of the landowners in Ireland were designed to force emigration of the elderly and infirm, who could not work, and to retain a high percentage of able-bodied workers.
- C. Advances in technology increased the efficiency of industry and agriculture, and so allowed maintenance of economic output with less demand for labor.
- D. The birth rate increased during the decade following the famine, and this compensated for much of the loss of population that was due to the famine.

7

37.
Cars are safer than planes. Fifty percent of plane accidents result in death, while only one percent of car accidents result in death.

Which of the following, if true, would most seriously weaken the argument above?
A. Planes are inspected more often than cars.
B. The number of car accidents is several hundred thousand times higher than the number of plane accidents.
C. Pilots never fly under the influence of alcohol, while car drivers often do.
D. Plane accidents are usually the fault of air traffic controllers, not pilots.

38.
The body of anyone infected by virus X will, after a week, produce antibodies to fight the virus; the antibodies will increase in number for the next year or so. There is now a test that reliably indicates how many antibodies are present in a person's body. If positive, this test can be used during the first year of infection to estimate to within a month how long that person has had the virus.

Which one of the following conclusions is best supported by the statements above?
A. Antibodies increase in number only until they have defeated the virus.
B. Without the test for antibodies, there is no way of establishing whether a person has virus X.
C. If a person remains infected by virus X indefinitely, there is no limit to the number of antibodies that can be present in the person's body.
D. Anyone infected by virus X will for a time fail to exhibit infection if tested by the antibody test.

39.
Ever since I arrived at the college last week, I've been shocked by the poor behavior of the students. The student population is completely lacking in proper social skills.

Which of the following, if true, would weaken the above conclusion?
A. Students who are away from their parents often exhibit rude behavior.
B. The college numbers over 50,000 students.
C. The narrator is a student and has interacted with many students.
D. Social skills should not be expected of college students.

For questions 40-45, Read the following passage, from a novel set in 1920s America, and select the best option.

Jordan Baker instinctively avoided clever, shrewd men, and now I saw that this was because she felt safer on a plane where any divergence from a code would be thought impossible. She was incurably dishonest. She wasn't able to endure being at a disadvantage and, given this unwillingness, I suppose she had begun dealing in subterfuges when she was very young in order to keep that cool, insolent smile turned to the world and yet satisfy the demands of her hard, jaunty body.
It made no difference to me. Dishonesty in a woman is a thing you never blame deeply –
I was casually sorry, and then I forgot. It was on that same house-party that we had a curious conversation about driving a car. It started because she passed so close to some workmen that our fender flicked a button on one man's coat.
'You're a rotten driver,' I protested. 'Either you ought to be more careful, or you oughtn't to drive at all.'
'I am careful.'
'No, you're not.'
'Well, other people are,' she said lightly.
'What's that got to do with it?'
'They'll keep out of my way,' she insisted. 'It takes two to make an accident.'
'Suppose you met somebody just as careless as yourself.'
'I hope I never will,' she answered. 'I hate careless people. That's why I like you.'

Her grey, sun-strained eyes stared straight ahead, but she had deliberately shifted our relations, and for a moment I thought I loved her. But I am slow-thinking and full of interior rules that act as brakes on my desires, and I knew that first I had to get myself definitely out of that tangle back home. I'd been writing letters once a week and signing them: 'Love, Nick,' and all I could think of was how, when that certain girl played tennis, a faint moustache of perspiration appeared on her upper lip. Nevertheless there was a vague understanding that had to be tactfully broken off before I was free.

Every one suspects himself of at least one of the cardinal virtues, and this is mine: I am one of the few honest people that I have ever known.

40

Jordan Baker's attitude towards 'clever, shrewd men' could be a defence-mechanism based on her:

    A female chauvinism

    B post- feminism approach

    C self-knowledge

    D self-pity

41

The narrator presents Jordan Baker's dishonesty as a form of

    A versatility.

    B vengefulness.

    C self-possession.

    D self-preservation.

42

Jordan Baker most likely hates 'careless people' because they

    A limit her freedom.

    B awaken her conscience.

    C undermine her attention-seeking.

    D are inconsiderate of others' feelings.

43

The narrator recalls his relationship 'back home' with a sense of

    A nonchalance.

    B apprehension.

    C responsibility.

    D powerlessness.

44

When he calls himself 'honest', the narrator means that he is

    A selfless.

    B innocent.

    C principled.

    D magnanimous.

45

When he states, 'I am one of the few honest people that I have ever known', the narrator presents his own honesty as a

    A choice.

    B marvel.

    C limitation.

    D conceitedness.

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

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Mathematics M.C.Q's

No. of Questions: 45 (from 46 to 90)   Time: 70Minutes

Questions starting from Page: 9   Negative markings: **Yes**

Q46 $\sqrt{432} - \sqrt{288} - \sqrt{144} =$

- A. $12\sqrt{3}$
- B. $12(\sqrt{3} - \sqrt{2} - 1)$
- C. $12(\sqrt{2} - 1)$
- D. None of these

Q47 Three-fourth of tank is full of water. When 30 liters of water are taken out, the tank becomes empty. What is the capacity of the tank?

- A. 40 liters
- B. 38 liters
- C. 42 liters
- D. 36 liters

Q48 Five years back, a father was 70 years older than his son. At present the father is 11 times as old as the son. How old will the son be five years from now?

- A. 6 years
- B. 9 years
- C. 12 years
- D. 15 years

Q49 If an article is sold at a gain of 5% instead of being sold at a loss of 5%, one gets 500 rupees more. What is the cost price of the article?

- A. 6000 rupees
- B. 5000 rupees
- C. 8000 rupees
- D. 12000 rupees

Q50 For what values of 'k' will the pair of equations $x + 2y = k$ and $3x - ky = -18$ not have a unique solution?

- A. -2
- B. 6
- C. -6
- D. 7

Q51 If the areas of a circle and square are equal, what is the ratio of their perimeters?

- A. $\sqrt{\pi} : 2$
- B. $2 : \pi$
- C. $\pi : 2$
- D. $2 : 1$

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Q52 The average of 5 consecutive even integers starting with m as the first even integer is n. What is the average of 5 consecutive odd integers that start with m+1?

   A. n

   B. n + 1

   C. n + 2

   D. n + 3

Q53 If n, p, and q are in Geometric Progression, then the expression for p in terms of n and q is

   A. nq

   B. nq^2

   C. $\sqrt{nq}$

   D. n/q

Q54 Let $x = 2^{3.3}$, $y = 4^{-1.6}$, and $z = 8^{3.3}$, then the value of the product xyz is

   A. 512

   B. 1024

   C. 2056

   D. 4096

Q55 Two Arithmetic Progressions have the same common difference. If the difference between their 100th terms is 112233, then the difference between their millionth terms would be

   A. 123

   B. 112233

   C. 111222333

   D. 1111222233333

Q56 The average of the ages of a man and his daughter is 34 years. If the respective ratio of their ages four years from now is 14:5, what is the man's present age?

   A. 62

   B. 52

   C. 42

   D. None of these

Q57 The ratio of the fifth term to the twelfth term of a sequence in an arithmetic progression is 6/13. If each term of this sequence is positive, and the product of the first term and the third term is 32, find the sum of the first 100 terms of this sequence.

   A. 10200

   B. 10300

   C. 10400

   D. None of these

Q58 What is the smallest integer that satisfies the inequality $\dfrac{x-6}{x^2-6x-40} > 0$?

   A. 0

   B. −1

   C. −3

   D. −5

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Q59 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. 8 sides

    C. 12 sides

    D. None of these

Q60 A train passes two bridges of length 800 m and 400 m in 100 seconds and 60 seconds respectively. What is the speed of the train?

    A. 40 m / seconds

    B. 30 m / seconds

    C. 20 m / seconds

    D. 10 m / seconds

Q61 If $x^2 - 7x = 144$, and y and n are integers such that $y^n = x$, which of the following CANNOT be a value for y?

    A. −9

    B. 16

    C. 4

    D. −3

Q62 In a certain business school, Fall Semester commences on the third Monday in August. What is the earliest date that Fall semester commences in any given year?

    A. August 16

    B. August 15

    C. August 14

    D. August 13

Q63 In the standard xy-coordinate plane, the midpoint of the segment joining the points A and B is (10, 20). If the coordinates of point A are (6, 12), what are the coordinates of point B?

    A. (12, 6)

    B. (14, 28)

    C. (20, 10)

    D. None of these

Q64 What is the value of n if $3^{2n-2} = 243$?

    A. 2

    B. 2.5

    C. 3

    D. 3.5

Q65 When z is divided by nine, the remainder is three. What is the remainder when 3z is divided by nine?

    A. 3

    B. 2

    C. 1

    D. 0

Q66 The slope of the line passing through the point (5, 5) is 6/5. All of the following points could be on the line except

    A. (10, 11)

    B. (17, 15)

    C. (15, 17)

    D. (−5, −7)

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Q67 If $g(x) = (x-4)^2$ and $h(y) = (y+4)^2$, then what is the value of $g(h(-1))$?

A. 25

B. 841

C. 9

D. None of these

Q68 If the average of $20, 30, 40, 50-x, 10+2x$ is 87, what is the value of x?

A. 265

B. 275

C. 285

D. 295

Q69 If $x^2 - 5x + \alpha = 0$, and the difference of the two possible values of x is three, then the value of $|\alpha|$ is,

A. 5

B. 4

C. 3

D. 2

Q70 For the equations $\dfrac{a^x}{a^y} = a^{-10}$ and $(a^y)^3 = a^{-x}$, if $a > 1$, what is the value of x?

A. 2.5

B. −7.5

C. 2

D. 1

Q71 If S is the sum of the integers from 51 to 150 and T is the sum of the integers from 151 to 250, what is the value of $S - T$?

A. 100,000

B. 10,000

C. −100,000

D. −10,000

Q72 The sum of five consecutive positive odd integers is w. In terms of w, what is the sum of the smallest and largest integers?

A. $\dfrac{w-27}{5}$

B. $\dfrac{w+27}{5}$

C. $\dfrac{2w}{5}$

D. $\dfrac{w+25}{5}$

Q73 If $3^x = y$ and $9^z = w$, then $yw =$

A. 9^{2x+z}

B. 3^{x+2z}

C. 3^{2xz}

D. None of these

Q74 If $2x - 3 < 4x - 9$, which of the following must be true?

A. $X > -3$

B. $X < -3$

C. $x > 3$

D. $x < 3$

ALL ANSWERS MUST BE GIVEN ON THE COMPUTERIZED ANSWER SHEET

BY CRSSOING THE CORRESPONDING LETTER

Q75 What is the length of the line segment in the x-y plane with end points at $(-8, 0)$ and $(0, 6)$?

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

Q76 The average weight of a class of 30 students is 40 kgs. When the weight of the teacher is also included, the average weight increased by 1 kg. What is the weight of the teacher?

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

Q77 Of the three hundred students at Allama Iqbal College, exactly 40 play football and 60 play table tennis, and 25 play both. How many students neither play football nor table tennis?

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

Q78 Today is Sunday, what will it be 1000 days from now?

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

Q79 If $7x + y = 23$, and $x + 7y = 47$, find the value of $x - y$

  A. 4
  B. −4
  C. 24
  D. −24

Q80 If the average of four consecutive integers is W, which of the following must be true?

  I. One of the integers is equal to W.
  II. The average of two of the four integers is W.
  III. W is an integer.

  A. I only
  B. II only
  C. III only
  D. I and II only

Q81 Which of the following points lies in the exterior of the circle whose diameter is 12 and whose centre is at the origin?

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

Q82 If u and v are negative numbers whose product is 8, and if the larger number is $\frac{1}{5}$ of the smaller number, what is the value of $|u - v|$?

  A. $\frac{1}{5}\sqrt{10}$

  B. $\frac{8}{5}\sqrt{10}$

  C. $-\frac{8}{5}\sqrt{10}$

  D. None of these

14

Q83 Suppose p is chosen at random from the set {1, 2, 6, 11, 17}. What is the probability that p is prime?

    A. 0.8

    B. 0.6

    C. 0.5   D. None of these

Q84 The total weight of a tin and the cookies it contains is one KG. After $\frac{4}{5}$ of the cookies are eaten, the tin and the remaining cookies weigh 0.8 KG. What is the weight of the cookies in the tin?

    A. 0.75 KG

    B. 0.25 KG

    C. 0.5 KG

    D. None of these

Q85 If h is increase by 12% and k is decreased by 15%, the resulting numbers will be equal. What is the ratio of k to h?

    A. $\dfrac{17}{23}$

    B. $\dfrac{23}{17}$

    C. $\dfrac{4}{5}$

    D. None of these

Q86 Which of the following number is between $\dfrac{1}{11}$ and $\dfrac{1}{9}$?

    A. 0.12

    B. 0.09

    C. 0.08

    D. None of these

Q 87 Six consecutive positive integers are each divided by 6 and their remainders are recorded. What is the sum of these remainders?

    A. 11

    B. 13

    C. 15

    D. None of these

Q88 How many numbers between 20 and 99 are equal to 6 times an integer?

    A. 3

    B. 13

    C. 16

    D. 17

Q89 Which of the following is equivalent to $\dfrac{x^2-16}{2x^2-3x-20}$?

    A. $\dfrac{x+4}{2(x-4)}$

    B. $\dfrac{x-4}{2(x+4)}$

    C. $\dfrac{x+4}{2(x+5)}$

    D. $\dfrac{x+4}{2x+5}$

Q90 Half the people on a bus get off at each stop after the first, and no one gets on after the first stop. If four persons get off at stop number five, how many people got on at the first stop?

    A. 128

    B.   64

    C.   32

    D.   16