

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

Mathematics M.C.Q's

No. of Questions: 45 (from 1 to 45)

Time allowed: 60 Minutes

Questions on Page Nos: 1 To 6

Negative markings: **Yes**

- Q1 If the standard deviation of 99 observations is 16, then its variance is
A) 256
B) 64
C) 32
D) 4
- Q2 If the ordered pairs $(1, 2 + x)$ and $(6 - x, 7)$ are equal, then value of x must be
A) 4
B) 5
C) 6
D) 7
- Q3 If $x = 1 - \sqrt{2}$, then the value of $x + \frac{1}{x}$ will be
A) 2
B) $-2\sqrt{2}$
C) $\frac{1}{1-\sqrt{2}}$
D) None of these
- Q4 $2 \sin 60^\circ \cos 60^\circ =$
A) $\cos 60^\circ$
B) $\sin 30^\circ$
C) $\cos 30^\circ$
D) $\sin 45^\circ$
- Q5 The value of $\sqrt[5]{1024}$ is
A) 5
B) 4
C) 3
D) 2
- Q6 The quotient and remainder are $x - 2$ and $-2x + 4$ respectively when the polynomial $x^3 - 3x^2 + x + 2$ is divided by $g(x)$. Find $g(x)$
A) $x^2 + x + 1$
B) $x^2 - x - 1$
C) $x^2 - x + 1$
D) None of these
- Q7 Which of the following is equivalent to $\frac{19}{4}$?
A) 4.5
B) 4.75
C) 4.25
D) None of these
- Q8 The value of $x^2 - y^2$ when $x + y = 5$ and $x - y = 4$ is
A) 18
B) 19
C) 20
D) 21

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- Q9 If p and q are the roots of the polynomial equation $x^2 + x + q = 0$, then
 I. $p = -1$ and $q = 0$ II. $p = 1$; $q = -2$
 A) Only I is true
 B) Only II is true
 C) both I and II are true
 D) None of these
- Q10 If $A = \begin{bmatrix} 1 & 2 \\ -1 & a \end{bmatrix} \begin{bmatrix} 1 & 1 \\ 1 & 2 \end{bmatrix} = \begin{bmatrix} 1 & b \\ 1 & 4 \end{bmatrix} \begin{bmatrix} 1 & -1 \\ 1 & 3 \end{bmatrix}$ then
 A) $a = 3b = 6$
 B) $a = 2b = 6$
 C) $a = b$
 D) $a = 2b = 4$
- Q11 The determinant of the matrix $A = \begin{bmatrix} 10 & 20 \\ 30 & 40 \end{bmatrix}$ is
 A) 200
 B) -200
 C) -800
 D) 800
- Q12 If $\begin{bmatrix} 10 & 299 \\ 1 & 30 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} 100 \\ 10 \end{bmatrix}$, then $\begin{bmatrix} x \\ y \end{bmatrix} =$
 A) $\begin{bmatrix} 1000 \\ 0 \end{bmatrix}$
 B) $\begin{bmatrix} 100 \\ 0 \end{bmatrix}$
 C) $\begin{bmatrix} 10 \\ 0 \end{bmatrix}$
 D) None of these
- Q13 $\frac{\log_{13} 10000}{\log_{13} 100} =$
 A) 3
 B) 2
 C) 1
 D) Zero
- Q14 The solution set of the equation $|2x| = |10x|$ is given by
 A) $\{0, 5\}$
 B) $\{0, -5\}$
 C) $\{-5, 5\}$
 D) $\{0\}$
- Q15 Let x be a real number satisfying the inequality $|1 + 2x| < 7$, then the solution set of the inequality is given by
 A) $x > -4$
 B) $x < 3$
 C) $-4 < x < 3$
 D) $-4 \leq x \leq 3$
- Q16 If $x - \frac{1}{x} = -1$, then the value of $x^4 - \frac{1}{x^4}$
 A) -1
 B) $-3(x + \frac{1}{x})$
 C) $3(x + \frac{1}{x})$
 D) Zero

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- Q17 Solution set of $|y| - 2y = -4$ is
 A) $\{ \}$
 B) $\{4\}$
 C) $\{-4, 4\}$
 D) $\{-4\}$
- Q18 Let Θ be the smallest angle of a right triangle in which base and perpendicular are of measures 300 cm and 400 cm respectively. The value of $\sin \Theta$ will be
 A) 0.2
 B) 0.4
 C) 0.6
 D) 0.8
- Q19 Form the quadratic equation in t whose roots are $2 \pm \sqrt{11}$
 A) $t^2 + 4t + 7 = 0$
 B) $t^2 - 4t + 7 = 0$
 C) $t^2 + 4t - 7 = 0$
 D) $t^2 - 4t - 7 = 0$
- Q20 Following are the marks obtained by ten students in a subject:
 29, 20, 39, 49, 41, 25, 18, 29, 17, 27
 The median mark is
 A) 27
 B) 28
 C) 29
 D) None of these
- Q21 Following are the runs made by Pakistani Batsmen On October 23, 2013:
 0, 21, 10, 2, 10, 0, 0, 25, 0, 24
 The mode is
 A) 10
 B) 21
 C) 0
 D) None of these
- Q22 Let $A = \begin{bmatrix} 1 & 2 \\ 3 & a \end{bmatrix}$, and $B = \begin{bmatrix} 1 & 1 \\ b & 3 \end{bmatrix}$. Under what conditions $AB = BA$?
 A) $a = b = 1$
 B) $a = 1.5$ and $b = 5$
 C) $a = 5$ and $b = 1.5$
 D) None of these
- Q23 The value of $\operatorname{cosec} 30^\circ$ is
 A) $\frac{\sqrt{3}}{2}$
 B) $\frac{1}{2}$
 C) $\frac{1}{\sqrt{3}}$
 D) 2
- Q24 If two circles of radii 10cm and 15cm touch internally, the distance between their centers is
 A) 5cm
 B) 15cm
 C) 25cm
 D) 30cm

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- Q25 Let us consider a matrix equation of the form $A\underline{x} = \underline{b}$, where A is given in Q11, and $\underline{b} = \begin{bmatrix} 10 \\ -10 \end{bmatrix}$ and $\underline{x} = \begin{bmatrix} x \\ y \end{bmatrix}$. Then
- A) $2x = 3y = 6$
 B) $x = 2, y = 3$
 C) $x = -2, y = -3$
 D) $x = -3, y = 2$
- Q26 The value of $\sqrt{5}(5 + 4\sqrt{125})$
- A) $5(20 + \sqrt{5})$
 B) $\sqrt{5}(5 + 10\sqrt{5})$
 C) $\sqrt{5}(5 + 20\sqrt{125})$
 D) None of these
- Q27 If $3(n - 2) - 5(2 + 3n) = -6$, what is the value of $6n - 36n^2$?
- A) 20
 B) -30
 C) -20
 D) 30
- Q28 The length of a rectangle is 6cm greater than its width. The area of the rectangle is 40 cm^2 . The length of the perimeter is
- A) 14cm
 B) 26cm
 C) 28cm
 D) 52cm
- Q29 Solve the following equation for β : $2(\beta - 5) = 6 + 4(\beta - 11)$
- A) -28
 B) 14
 C) 13
 D) -26
- Q30 The sum of three consecutive odd integers, of which x is the first integer is
- A) $3x + 1$
 B) $3x + 2$
 C) $3(x + 2)$
 D) $3(x + 1)$
- Q31 If the roots of the equation $x^2 - bx + 12 = 0$ are two consecutive integers, then b must be
- I. $b = 7$ II. $b = -7$
- A) Only I is true
 B) Only II is true
 C) both I and II are true
 D) None of these
- Q32 Solution set of $\sqrt{x} = 6|x|$ is (here \sqrt{x} means positive square root of x)
- A) $\{0, \frac{1}{6}\}$
 B) $\{0, \frac{1}{36}\}$
 C) $\{0, -\frac{1}{6}\}$
 D) $\{0, -\frac{1}{36}\}$

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- Q33 The domain of the binary relation $R = \{(2, 1), (4, 3), (6, 5), (8, 7), (10, 9)\}$ is
- A) $\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10\}$
 B) $\{1, 3, 5, 7, 9\}$
 C) $\{2, 4, 6, 8, 10\}$
 D) None of these
- Q34 The solution of the system of simultaneous linear equations $x + y = 5$ and $2x - y = 7$ is
- A) $x = 1$ and $y = 4$
 B) $x = 2$ and $y = 3$
 C) $x = 4$ and $y = 1$
 D) $x = 5$ and $y = 0$
- Q35 The factored form of $x^5 + 5x^4 + 6x^3$ is
- A) $x^2(x + 3)(x^2 + 2)$
 B) $x^3(x + 3)(x + 2)$
 C) $x^3(x - 2)(x - 3)$
 D) $x(x^2 + 3)(x^2 + 2)$
- Q36 $x^4 - y^4 =$
- A) $(x^2 - y^2)^2$
 B) $(x - y)(x + y)(x^2 - y^2)$
 C) $(x - y)(x + y)(x^2 - xy + y^2)$
 D) $(x - y)(x + y)(x^2 + y^2)$
- Q37 What number must be added to each term of the ratio 5: 27 to make it equal to 1: 3?
- A) 4
 B) 5
 C) 6
 D) 7
- Q38 Find Δ when the Matrix $\begin{bmatrix} -24 & \Delta \\ \Delta & -6 \end{bmatrix}$ is singular
- A) ± 6
 B) ± 8
 C) ± 10
 D) ± 12
- Q39 Which is the smallest?
- A) 90% of 1000.4
 B) 70% of 1286.5
 C) 60% of 1500.1
 D) 50% of 1800.2
- Q40 What percent represents a ratio of 18 to 20?
- A) 18%
 B) 20%
 C) 38%
 D) 90%
- Q41 The point $(\sqrt{3}, -\sqrt{3})$ is located in
- A) First quadrant
 B) Second quadrant
 C) Third quadrant
 D) Fourth quadrant

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- Q42 The price of a table was Rs 1000. It was first increased by 30%. After a week the shop owner decreased the price by 25%. What is the new price of the table?
- A) Rs 750
B) Rs 850
C) Rs 975
D) Rs 1250
- Q43 A map is drawn to a scale of 1:3000. Two points on the map are 9.5 cm apart. What is the actual distance between the points?
- A) 95 Kilometres
B) 2850 cm
C) 285 Meters
D) 2.85 Kilometres
- Q44 Find the missing number if median is 5: 7, 3, 2, ..., 6, 4
- A) 6
B) 4
C) 3
D) 2
- Q45 The cube root of x varies inversely as the square of y . If $x = 8$ when $y = 3$, find y when $x = 512$
- A) ± 2.25
B) ± 2.15
C) ± 1.5
D) None of these

(Stop. Do not turn over the next page until you are told to do so.)

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English M.C.Q's

No. of Questions: 40 (from 46 to 85)
Questions on Page Nos: 7 to 15

Time allowed: 45 Minutes
Negative markings: **Yes**

Questions 46 - 60: Select the option that best completes the sentence.

46. The heat was absolutely _____, making everyone irritable, sweaty, and uncomfortable.
A. taciturn
B. replete
C. prosaic
D. oppressive
47. The biology students were assigned the task of testing the _____, but did not have enough time to prove its validity.
A. lexicon
B. hypothesis
C. motif
D. platitude
48. It had rained all afternoon, but the fans were still _____ that the baseball game would still be played.
A. pessimistic
B. sadistic
C. optimistic
D. domineering
49. If you have any special needs or requests, speak to Val; she's the one with the most _____ around here.
A. synergy
B. clout
C. affinity
D. guile
50. Because Virgil had been so _____ as a child, he had an extremely difficult time adjusting when he enrolled in the military academy.
A. fettered
B. intrepid
C. coddled
D. pallid
51. Far from being a _____, Bob gets up at dawn every morning to prepare for a long day at work after which he attends classes in evening.
A. moderator
B. drone
C. sycophant
D. sluggard
52. The vulgarity used by the football fans at the stadium was _____ and eventually lead to a penalty for the team.
A. rakish
B. sagacious
C. reproachable
D. mundane
53. After the debate, Karim _____ upon many of the campaign issues in a series of detailed editorials.
A. expounded
B. doffed
C. temporized
D. wrought

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54. Charged with moral _____, the judge was called off the case even though he denied receiving bribes from the plaintiff's counsel.
- A. lassitude
 - B. restitution
 - C. turpitude
 - D. torpor
55. I knew from Inga's _____ reply that she was offended by my question.
- A. vivacious
 - B. sinister
 - C. garrulous
 - D. brusque
56. The cult leader's _____ obeyed his every instruction.
- A. predecessors
 - B. sycophants
 - C. narcissists
 - D. panderers
57. The _____ wallpaper in his living room makes it difficult to find curtains and furniture that will match it.
- A. fatuous
 - B. verbose
 - C. variegated
 - D. meticulous
58. Homer's Odyssey was not translated into many people's _____ until after the invention of the printing press.
- A. caste
 - B. epicure
 - C. vernacular
 - D. debutant
59. Don Quixote describes the adventures of a(n) _____ knight who believes that windmills are giants and the barmaid Dulcinea is a princess.
- A. eloquent
 - B. fickle
 - C. errant
 - D. steadfast
60. The _____ espionage plot was so sophisticated it was impossible to believe it was the work of teenage computer hackers.
- A. simple
 - B. vaporized
 - C. byzantine
 - D. mystical

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Questions 61-67: Rearrange the sentences in the proper order by choosing the most appropriate sentence sequence from the answer choices.

61.

- a. Similarly, turning to caste, even though being lower caste is undoubtedly a separate cause of disparity, its impact is all the greater when the lower-caste families also happen to be poor.
- b. Belonging to a privileged class can help a woman to overcome many barriers that obstruct women from less thriving classes.
- c. It is the interactive presence of these two kinds of deprivation—being low class and being female—that massively impoverishes women from the less privileged classes.
- d. A congruence of class deprivation and gender discrimination can blight the lives of poorer women very severely.
- e. Gender is certainly a contributor to societal inequality, but it does not act independently of class.

- A. eabdc
 B. ebdca
 C. daebc
 D. beccda

62.

- a. Since then, intelligence tests have been mostly used to separate dull children in school from average or bright children, so that special education can be provided to the dull.
- b. In other words, intelligence tests give us a norm for each age.
- c. Intelligence is expressed as intelligence quotient, and tests are developed to indicate what an average child of a certain age can do: what a 5-year-old can answer, but a 4-year-old cannot, for instance.
- d. Binet developed the first set of such tests in the early 1900s to find out which children in school needed special attention.
- e. Intelligence can be measured by tests.

- A. cdabe
 B. decab
 C. edacb
 D. cbade

63.

- a. This is now orthodoxy to which I subscribe— up to a point.
- b. It emerged from the mathematics of chance and statistics.
- c. Therefore the risk is measurable and manageable.
- d. The fundamental concept: Prices are not predictable, but the mathematical laws of chance can describe their fluctuations.
- e. This is how what business schools now call modern finance was born.

- A. adcbe
 B. ebdca
 C. abdce
 D. dcbea

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64.

a.

He was bone-weary and soul-weary, and found himself muttering, "Either I can't manage this place, or it's unmanageable."

b.

To his horror, he realized that he had become the victim of an amorphous, unwitting, unconscious conspiracy to immerse him in routine work that had no significance.

c.

It was one of those nights in the office when the office clock was moving towards four in the morning and Bennis was still not through with the incredible mass of paper stacked before him.

d.

He reached for his calendar and ran his eyes down each hour, half-hour, and quarter-hour, to see where his time had gone that day, the day before, the month before.

A. abcd

B. cadb

C. bdca

D. dcba

65.

a.

The wall does not simply divide Israel from a putative Palestinian state on the basis of the 1967 borders.

b.

A chilling omission from the road map is the gigantic 'separation wall' now being built in the West Bank by Israel.

c.

It is surrounded by trenches, electric wire and moats; there are watchtowers at regular intervals.

d.

It actually takes in new tracts of Palestinian land, sometimes five or six kilometers at a stretch.

e.

Almost a decade after the end of South African apartheid, this ghastly racist wall is going up with scarcely a peep from Israel's American allies who are going to pay for most of it.

A. ebcad

B. badce

C. aedcb

D. ecadb

66.

a.

Events intervened, and in the late 1930s and 1940s, Germany suffered from "over-branding".

b.

The British used to be fascinated by the home of Romanticism.

c.

But reunification and the federal government's move to Berlin have prompted Germany to think again about its image.

d.

The first foreign package holiday was a tour of Germany organized by Thomas Cook in 1855.

e.

Since then, Germany has been understandably nervous about promoting itself abroad.

A. acebd

B. decab

C. bdaec

D. dbaec

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- 67.
- a.
In the case of King Merolchazzar's courtship of the Princess of the Outer Isles, there occurs a regrettable hitch.
 - b.
She acknowledges the gifts, but no word of a meeting date follows.
 - c.
The monarch, hearing good reports of a neighbouring princess, dispatches messengers with gifts to her court, beseeching an interview.
 - d.
The princess names a date, and a formal meeting takes place; after that everything buzzes along pretty smoothly.
 - e.
Royal love affairs in olden days were conducted on the correspondence method.

- A. acbde
- B. abcde
- C. ecdab
- D. ecbad

Questions 68-71: Select the best option.

In an unfinished but highly suggestive series of essays, the late Sarah Eisenstein has focused attention on the evolution of working women's values from the turn of the century to the First World War. Eisenstein argues that turn-of-the-century women neither wholly accepted nor rejected what she calls the dominant "ideology of domesticity," but rather took this and other available ideologies-feminism, socialism, trade unionism-and modified or adapted them in light of their won experiences and needs. In thus maintaining that wages-work helped to produce a new "consciousness" among women, Eisenstein to some extent challenges the recent, controversial proposal by Leslie Tentler that for women the work experience only served to reinforce the attractiveness of the dominant ideology. According to the Tentler, the degrading conditions under which many female wage earners worked made them view the family as a source of power and esteem available nowhere else in their social world. In contrast, Eisenstein's study insists that wage-work had other implications for women's identities and consciousness. Most importantly, her work aims to demonstrate that wage-work enabled women to become aware of themselves as a distinct social group capable of defining their collective circumstance. Eisenstein insists that as a group working-class women were not able to come to collective consciousness of their situation until they began entering the labor force, because domestic work tended to isolate them from one another.

Unfortunately, Eisenstein's unfinished study does not develop these ideas in sufficient depth or detail, offering tantalizing hints rather than an exhaustive analysis. Whatever Eisenstein's overall plan may have been, in its current form her study suffers from the limited nature of the sources she depended on. She use the speeches and writings of reformers and labor organizers, who she acknowledges were far from representative, as the voice of the typical woman worker. And there is less than adequate attention given to the differing values of immigrant groups that made up a significant proportion of the population under investigation. While raising important questions, Eisenstein's essays do not provide definitive answer, and it remains for others to take up the challenges they offer.

68. The primary purpose of the passage is to
- A. criticize a scholar's assumptions and methodology
 - B. evaluate an approach to women's study
 - C. compare two sociological theories
 - D. correct a misconception about feminist theory

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69. It can be inferred from the passage that, in Eisenstein's view, working women at the turn of the century had which of the following attitudes toward the dominant ideology of their time?
- A. They resented the dominant ideology as degrading.
 - B. They preferred the dominant ideology to other available ideologies.
 - C. They began to view the dominant ideology to other available ideologies.
 - D. They accepted some but not all aspects of the dominant ideology.
70. Which of the following best describes the organization of the first paragraph of the passage?
- A. A chronological account of a historical development is presented, and then future developments are predicted.
 - B. A term is defined according to several different schools of thought, and then a new definition is formulated.
 - C. A theory is presented, an alternative viewpoint is introduced, and then the reasoning behind the initial theory is summarized.
 - D. A tentative proposal is made, reasons for and against it are weighed, and then a modified version of the proposal is offered.
71. Which of the following would the author of the passage be most likely to approve as a continuation of Eisenstein's study?
- A. An oral history of promotion women labor organizers.
 - B. An analysis of letters and diaries written by typical female wage earners at the turn of the century.
 - C. An assessment of what different social and political groups defined as the dominant ideology in the early twentieth century.
 - D. A theoretical study of how socialism and feminism influenced one another at the turn of the century.

Questions 72-75: Select the best option.

Neotropical coastal mangrove forests are usually "zonal," with certain mangrove species found predominantly in the seaward portion of the habitat and other mangrove species on the more landward portions of the coast. The earliest research on mangrove forests produced descriptions of species distribution from shore to land, without exploring the causes of the distributions.

The idea that zonation is caused by plant succession was first expressed by J. H. Davis in a study of Florida mangrove forests. According to Davis' scheme, the shoreline is being extended in a seaward direction because of the "land-building" role of mangroves, which, by trapping sediments over time, extend the shore. As a habitat gradually becomes more inland as the shore extends, the "land-building" species are replaced. This continuous process of accretion and succession would be interrupted only by hurricanes or storm flushings.

Recently the universal application of Davis's succession paradigm has been challenged. It appears that in areas where weak currents and weak tidal energies allow the accumulation of sediments, mangroves will follow land formation and accelerate the rate of soil accretion; succession will proceed according to Davis's scheme. But on stable coastlines, the distribution of mangrove species results in other patterns of zonation; "land building" does not occur.

To find a principle that explains the various distribution patterns, several researchers have looked to salinity and its effects on mangrove. While mangroves can develop in fresh water, they can also thrive in salinities as high as 2.5 times that of seawater. However, those mangrove species found in freshwater habitats do well only in the absence of competition, thus suggesting that salinity tolerance is a critical factor in competitive success among mangrove species. Research suggests that mangroves will normally dominate highly saline regions, although not because they require salt. Rather, they are metabolically efficient (and hence grow well) in portions of an environment whose high salinity excludes plants adapted to lower salinities. Tides create

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different degrees of salinity along a coastline. The characteristic mangrove species of each zone should exhibit a higher metabolic efficiency at that salinity than will any potential invader, including other species of mangrove.

72. The primary purpose of the passage is to:
- A. refute the idea that the zonation exhibited in mangrove forests is caused by adaption to salinity
 - B. describe the pattern of zonation typically found in Florida mangrove forests
 - C. argue that Davis' succession paradigm cannot be successfully applied to Florida mangrove forests
 - D. discuss hypotheses that attempt to explain the zonation of coastal mangrove forests
73. According to the passage, the earliest research on mangrove forest produced which of the following?
- A. Data that implied random patterns of mangrove species distribution
 - B. Descriptions of species distributions suggesting zonation
 - C. Descriptions of the development of mangrove forests over time
 - D. Reclassification of species formerly thought to be identical
74. It can be inferred from the passage that Davis' paradigm does NOT apply to which of the following?
- A. The shoreline of Florida mangrove forests first studied by Davis
 - B. A shoreline in an area with weak energy
 - C. A shoreline extended by "land-building" species of mangrove
 - D. A shoreline in which few sediments can accumulate
75. Information in the passage indicates that the author would most probably regard which of the following statements as INCORRECT?
- A. Coastal mangrove forests are usually zonal
 - B. Hurricanes interrupt the process of accretion and succession that extends existing shorelines
 - C. Species of plants that thrive in a saline habitat require salt to flourish
 - D. Plants with the highest metabolic efficiency in a given habitat tend to exclude other plants from that habitat

Questions 76-85: Select the best option.

The Alaska pipeline starts at the frozen edge of the Arctic Ocean. It stretches southward across the largest and northernmost state in *the United States*, ending at a remote ice-free seaport village nearly 800 miles from where it begins. **It is massive in size and extremely complicated to operate.**

The steel pipe crosses windswept plains and endless miles of delicate tundra that tops the frozen ground. It weaves through crooked canyons, climbs sheer mountains, plunges over rocky crags, makes its way through thick forests, and passes over or under hundreds of rivers and streams. The pipe is 4 feet in diameter, and up to 2 million barrels (or 84 million gallons) of crude oil can be pumped through it daily.

Resting on H-shaped steel racks called "bents," long sections of the pipeline follow a zigzag course high above the frozen earth. Other long sections drop out of sight beneath spongy or rocky ground and return to the surface later on. The pattern of the pipeline's up-and-down route is determined by the often harsh demands of the arctic and subarctic climate, the tortuous lay of the land, and the varied compositions of soil, rock, or permafrost (permanently frozen ground). A little more than half of the pipeline is elevated above the ground. The remainder is buried anywhere from 3 to 12 feet, depending largely upon the type of terrain and the properties of the soil.

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One of the largest in the world, the pipeline cost approximately \$8 billion and is by far the biggest and most expensive construction project ever *undertaken* by private industry. In fact, no single business could raise that much money, so 8 major oil companies formed a consortium in order to share the costs. Each company controlled oil rights to *particular* shares of land in the oil fields and holdings. Today, despite enormous problems of climate, supply shortages, equipment breakdowns, labor disagreements, treacherous terrain, a certain amount of mismanagement, and even theft, the Alaska pipeline has been completed and is operating.

76. The passage primarily discusses the pipeline's
- A. operating costs
 - B. employees
 - C. consumers
 - D. construction
77. The word "it" in line 3 refers to
- A. pipeline
 - B. ocean
 - C. state
 - D. village
78. According to the passage, 84 million gallons of oil can travel through the pipeline each
- A. day
 - B. week
 - C. month
 - D. year
79. The phrase "Resting on" in line 10 is closest in meaning to
- A. Consisting of
 - B. Supported by
 - C. Passing under
 - D. Protected with
80. The author mentions all of the following as important in determining the pipeline's route EXCEPT the
- A. climate
 - B. lay of the land itself
 - C. local vegetation
 - D. kind of soil and rock
81. The word "undertaken" in line 19 is closest in meaning to
- A. removed
 - B. selected
 - C. transported
 - D. attempted
82. How many companies shared the costs of constructing the pipeline?
- A. 3
 - B. 4
 - C. 8
 - D. 12

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

83. The word "particular" in line 21 is closest in meaning to
- A. peculiar
 - B. specific
 - C. exceptional
 - D. equal
84. Which of the following determined what percentage of the construction costs each member of the consortium would pay?
- A. How much oil field land each company owned
 - B. How long each company had owned land in the oil fields
 - C. How many people worked for each company
 - D. How many oil wells were located on the company's land
85. Where in the passage does the author provide a term for an earth covering that always remains frozen?
- A. Line 5
 - B. Line 10
 - C. Line 15
 - D. Line 20

(END of the TEST)