

Directions for Question Numbers 01-05

Choose the most appropriate answer on the basis of your reading of the following paragraph that precedes the question.

All over the world walking is fast becoming a favourite form of exercise for fitness. Researchers have discovered that fitness can be achieved without engaging in strenuous and highly intensive activities.

1. How according to the passage, can fitness be achieved?

- a) By engaging in strenuous and highly intense activities
- b) By not engaging in strenuous and highly intense activities
- c) By walking all over the world
- d) By doing an exercise as light as walking

New evidences show that, instead of working hard where the heart operates at seventy to eighty five percent of its maximum rate, one is better off with exercising less vigorously at about sixty percent of maximum heart rate – for a longer period of time. Not only is “fitness walking” is easier on the body, it is also a better way to burn unwanted fat than the more “physical” type of exercise.

2. What, out of the following, is not true about walking?

- a) It keeps the heart rate at about sixty percent of its maximum rate for a longer period of time.
- b) It burns the unwanted fat.
- c) It is instantly effective.
- d) It is easier on the body.

The body starts burning up excess fat only after fifteen minutes. This means that a twenty minutes heavy working results in just five minutes of good fat – burning efficiency. On the other hand, moderate walking for an hour means forty five minutes of fat burning. An hour of moderate walking (about 6.5 km per hour) will burn about three hundred and ninety calories..

3. Why is walking for an hour better than twenty minutes of heavy workout?

- a) The body starts burning up excess fat only after fifteen minutes.
- b) Walking is easier than workout
- c) Walking has a better fat burning efficiency.
- d) All of the above.

Walking has special appeal to people who want to remain healthy during their advanced years. It strengthens and tones the lungs, legs and other muscles. It decreases the risk of heart disease by making the heart more efficient.

4. What out of the following is not a benefit of walking?

- a) It is good for senior citizen.
- b) It is good for the lungs

- c) It is good for the heart.
- d) It is good for the muscles

Choose the option closest in meaning to the word given:

5. Entrenched

- a) Filled up
- b) Fortified
- c) Followed by
- d) Kept down

6. Sage

- a) Wise man
- b) Tale
- c) Era
- d) Fool

7. Foreclose

- a) Shut out
- b) Nearby
- c) Liberty
- d) Indicate

8. Cherish

- a) Tend
- b) Foster
- c) Nurture
- d) Vouch

Choose the option which is the antonym of the word mentioned:

9. Hurry

- a) Worry
- b) Amble
- c) Sorry
- d) Enable

10. Apex

- a) Base
- b) Zenith
- c) Meridian
- d) Median

11. Pick the odd-one out from the options

- a) Consortium
- b) Guild
- c) Bloc
- d) Dole-out

12. Pick the odd-one out from the options

- (A) Tornado
- (B) Twister
- (C) Cyclone
- (D) Volcano

13. Pick the odd-one out from the options

- (A) Ford
- (B) Boeing
- (C) Toyota
- (D) General Motors

14. Choose the analog for the pair of words

Snake: Reptile ::

- a) Snake: Cobra
- b) Bird : Mammal
- c) Wasp : Insect
- d) Lion : Amphibian

11. Choose the analog for the pair of words

Fake : Genuineness::

- a) Flawless : Perfection
- b) Nebulous : Definition
- c) Deceitful : Intent
- d) Amoral : Wicked

12. Choose the analog for the pair of words

Synagogue: Religion::

- a) Court : Law
- b) Hospital : Illness
- c) Asylum : Lunacy
- d) Prison : Crime

13. Select the pair of words from the given choices, exhibiting the same relationship between each other, as the given pair of words in capitals:

WAITER : TIP :

- a) Professor : Tenure
- b) Pharmacist : Prescription
- c) Bank teller : Interest
- d) Sales person : Commission

14. Select the pair of words from the given choices, exhibiting the same relationship between each other, as the given pair of words in capitals:

SHOWER : INUNDATION :

- a) Inception : Perception
- b) History : Portent
- c) Imagine : Sight
- d) Criticism : Vilification

15. Select the pair of words from the given choices, exhibiting the same relationship between each other, as the given pair of words in capitals:

MURAL : PAINTING :

- a) Symphony : Music
- b) Editorial : Journal
- c) Preface : Book
- d) Ode : Prose

16. Select the pair of words from the given choices, exhibiting the same relationship between each other, as the given pair of words in capitals:

NITTY : GRITTY :

- a) Nuts : Bolts
- b) Naked : Clothed
- c) Hard : Soft
- d) Bare : Feet

17. Select the pair of words from the given choices, exhibiting the same relationship between each other, as the given pair of words in capitals:

FURNITURE : CHAIR :

- a) Landscape : Tree
- b) Apple : Pear
- c) Animal : Cat
- d) Club : Player

18. Select the pair of words from the given choices, exhibiting the same relationship between each other, as the given pair of words in capitals:

INTERPRET : EXAMINE :

- a) Foresee : Predict
- b) Plan : Scheme
- c) Interest : Inveigle

d) Evaluate : Suggest

For Questions 19 to 25 : Choose the appropriate word to fill in the blanks:

19. Today, advance computer technology can ----- information from a number of sources, then automatically ----- the data and draw conclusions from the same

- a) Collate ----- Analyze
- b) Extrapolate----- Assemble
- c) Adjudicate ----- Assemble
- d) Research ----- Expand

20. Just as television surpassed radio as the major source of entertainment and information for the world, it seems destined that the internet will eventually ----- television

- a) Invigorate
- b) Alter
- c) Eliminate
- d) Supplant

21. It is characteristic of old age to sap a man's ebullience and rob him of his natural -----.

- a) Senility
- b) Vigor
- c) Maturity
- d) Insensibility

22. This is a ----- on his character

- a) Blot
- b) Blur
- c) Slur
- d) Spot
- e) Mark

23. There is no place for ----- in an accountant's job

- a) Assets
- b) Asserts
- c) Errors
- d) Duffers

24. A ----- of fresh air relaxes a tense mind

- a) Breathe
- b) Volley
- c) Gulp
- d) Breath
- e) Brush

25. A person who is ----- is slow to adapt to a new way of life

- a) Intractable

- b) Furious
- c) Insolent
- d) Valiant
- e) Constructive

26. Who gave the call that "Swarajya is my birthright"?

- (a) Mahatma Gandhi
- (b) Lala Lajpat Rai
- (c) Lokmanya Tilak
- (d) Bhagat Singh

27. The first woman president of Indian national Congress was:

- (a) Indira Gandhi
- (b) Annie Besant
- (c) Sucheta Kriplani
- (d) Kamla Nehru

28. Which Sikh guru compiled Guru Granth Sahib? :

- (a) Guru Nanak Dev
- (b) Guru Govind Singh
- (c) Guru Ramdas
- (d) Guru Arjun dev

29. What is the term of the member of Rajya Sabha?

- (a) 5 years
- (b) 4 years
- (c) 6 years
- (d) No fixed term

30. In India the governor of the State is appointed by

- (a) The President
- (b) The Prime Minister
- (c) Chief Justice
- (d) Chief Minister of the State

31. India carried out underground "Nuclear Explosion" at:

- (a) Jaduguda
- (b) Jaisalmer
- (c) Pokhran
- (d) Sriganganagar

32. Where is Vikram Sarabhai Space Centre located?

- (a) Mumbai
- (b) Bangalore
- (c) Sriharikota
- (d) Trivandrum

33. Which of the following is the folk dance of Rajasthan

- (a) Garba
- (b) Ghumar
- (c) Jhumar
- (d) Gidda

34. Five beautiful temples built in Mount Abu in Rajasthan are known as ?

- (a) Seven pagodas
- (b) Dilwara Temples
- (c) Vishnu Temples
- (d) Bhairav Temples

35. Hirakud dam has been constructed on which of the following rivers ?

- (a) Mahanadi
- (b) Krishna
- (c) Godavri
- (d) Narmada

36. Which one of the following is the main function of Unit Trust of India ?

- (a) Mobilize small savings
- (b) Giving loans
- (c) Imposing tax
- (d) Collecting taxes on agricultural land

37. Indian Standard Time is calculated on the basis of longitude situated near:

- a) Allahbad
- b) Lucknow
- c) Kanpur
- d) Varanasi

38. A solar eclipse occurs when:

- a) the earth comes inbetween the sun and the moon
- b) the sun comes inbetween the moon and the earth
- c) the moon, the sun and the earth are in straight line
- d) the moon comes inbetween the sun and the earth

39. Which of the following is not a greenhouse gas :
- a) oxygen
 - b) methane
 - c) carbon dioxide
 - d) water vapour
40. Which of the following varieties of coal is considered to be of the best quality?
- a.) Anthracite
 - b.) Bituminous
 - c.) Lignite
 - d.) Peat
41. Which vitamin is necessary for blood clotting?
- a) Vitamin B
 - b) Vitamin E
 - c) Vitamin K
 - d) Vitamin B
42. Which two cities in Japan were destroyed by atom bomb in World war II?
- a.) Hiroshima and Tokyo
 - b.) Tokyo and Nagasaki
 - c.) Hiroshima and Nagasaki
 - d.) Yokohoma and Fujiyama
43. Material of construction of Eiffel tower is:
- a) Steel
 - b) Bronze
 - c) Brass
 - d) Aluminium
44. The United nations day is celebrated on :
- a) October 24
 - b) October30
 - c) November 24
 - d) None of the above
45. Which of the following countries is not a member of ASEAN?
- a) Indonesia
 - b) Singapore
 - c) South Korea
 - d) Malaysia
46. Cricket was an Olympic event in which of the following countries?
- a) Paris, 1900
 - b) London, 1908

- c) Amsterdam, 1928
- d) Melbourne, 1956

47. Amrita Shergill is known for:

- a) Dance
- b) Poetry
- c) Painting
- d) Music

48. Bio-degradation of matter takes place due to the effect of:

- a) Bacteria,
- b) Virus,
- c) Fungi
- d) Algae

49. Anand math was written by:

- a) Bankim Chandra Chattopadhyay
- b) Rabindranath Tagore
- c) Swami Vivekananda
- d) None of the above

50. Liquefied Petroleum gas mainly consists of :

- a) Methane, Ethane and Hexane
- b) Methane, Propane and Butane
- c) Ethane, Hexane and Nonane
- d) Ethane, butane and Nonane

Directions for questions 51 to 54

In each question a set of six statements is given, followed by four answer choices.

Each of the answer choices has a combination of three statements from the given set of six statements. You are required to identify the answer choice in which the statements are logically related.

51.

- A. Sparrow is a bird
- B. Sparrow is not a bird
- C. Sparrow will not lay eggs
- D. Some birds lay eggs
- E. All birds lay eggs
- F. Sparrow may lay eggs

- a. ABF

- b. ACB
- c. ABE
- d. AEF

52.

- A. Some buildings may have rain
- B. Forests have buildings
- C. Cities have forests
- D. Forests have monkeys
- E. Forests have rain
- F. Cities have rain

- a. CDE
- b. AFC
- c. AEB
- d. EBA

53.

- A. Some people are corrupt
- B. Power corrupts with time
- C. He is powerful
- D. Corrupt people have power
- E. He is corrupt
- F. Some people have power

- a. CBE
- b. CEB
- c. FAD
- d. ADF

54.

- A. Arjun is intelligent
- B. Some smart people are intelligent
- C. All intelligent people are bold
- D. Not all intelligent people are smart
- E. Arjun is bold
- F. Arjun is smart

- a. CAE
- b. CEA
- c. ADF
- d. DFA

Directions for questions 55 to 57 In this question a main statement is followed by four statements: A, B, C and D. Choose the ordered pair of statements where the first statement implies the second, and the two statements are logically consistent with the main statement.

55. When it does not rain, frogs croak

- A. It did not rain
- B. It rained
- C. The frogs did not croak
- D. The frogs croaked

- a. AC
- b. CA
- c. AD
- d. DC

56. He has cold every time he plays

- A. He did not play
- B. He had cold
- C. He did not have cold
- D. He played

- a. CA
- b. BD
- c. AC
- d. BA

57. If apple is ripe, it will taste nice

- A. Apple is ripe
- B. Apple is not ripe
- C. Apple will taste nice
- D. Apple will not taste nice

- a. AC
- b. BD
- c. AD
- d. Both (a) and (b)

Directions for questions 58 to 60

The questions are based on VERBAL ANALOGIES. For each question, select the alternative that exhibits a similar relationship as shown by the QUESTION PAIR.

58. SALUTATION : FAREWELL

- a. Introduction : Conclusion
- b. Deposit : Withdraw
- c. Companion : Friendship
- d. Mingle : Emerge

59. PLANT : FUNGUS

- a. Police : Robbers
- b. Lion : Lamb
- c. Sailor : Pirate
- d. Major : Sepoy

60. TEETH : DENTIST

61.

- a. Legs : Paediatrist
- b. Eyes : Oculist
- c. Cardiologist : Heart
- d. Birds : Ornithology

DIRECTIONS FOR QUESTIONS 61 TO 74

Answer the questions on the basis of the information given below: Ram had four sons; A, B, C, and D. One day, when the boys were at their school, Ram received four gift parcels. Ram opened the four parcels. The four parcels were addressed to one each of her sons. Each parcel had a few one-rupee coins inside. In the evening she told her sons about the parcels and added, "You have totally received Rs. 20 -- all in one-rupee coins. None of you has received less than Rs. 2. A has got the maximum and D the least. B has got exactly Rs 1 more than C." Ram asked B who always arrived at the most logical and correct answer to look into his own parcel only and said how many coins each of the others had received. B looked into his parcel only and said that it was not possible to give the required answers. Ram then said that D had received an even number of coins. With this information B gave the correct answers.

62. The number of coins received by A were

- a. 10
- b. 9
- c. 8
- d. 7

63. The number of coins received by B were

- a. 5
- b. 6
- c. 7
- d. 8

64. The number of coins received by C were

- a. 7
- b. 5
- c. 6
- d. 4

65. The number of coins received by D were

- a. 2
- b. 4
- c. 6
- d. 7

DIRECTIONS FOR QUESTIONS 65 TO 69: Answer the questions on the basis of the information given below: The office staff of a Consulting Company presently consists of 3 accountants (A, B and C) and five secretaries (D, E, F, G and H). The corporation is planning to open an office in another city using three secretaries and two accountants from

the existing employee pool. To do so, they plan to separate certain individuals who do not function well together.

- I. Accountant A and C are constantly finding faults with each other and should not be sent together to the new office.
- II. C and E function well alone but not together.
- III. D and G are not on speaking terms for many months and there is no question of their selection together.
- IV. Since D and F have been competing for promotion, they should not be taken together.

66. If A is to be taken as one of the accountants, then which of the following cannot be a possible working unit?

- a. ABDEH
- b. ABDGH
- c. ABEFH
- d. ABEGH

67. If C and F are moved to the new office, then how many combinations of five people are possible?

- a. 1
- b. 2
- c. 3
- d. 4

68. According to the restrictions, which of the following must go to the new office?

- a. B
- b. D
- c. E
- d. G

69. If C is sent to the new office, then which member of the staff can never go with C?

- a. B
- b. D
- c. F
- d. None of these

70. If D goes to the office, then which of the following is true?

- I. C cannot go.
 - II. A cannot go.
 - III. H must go.
- a. Only I is true
 - b. Only II is true
 - c. Both I and II are true
 - d. Both I and III are true.

71. I. A small elevator starts at first floor with three people and stops at the fifth floor with five people.

- II. The elevator can accommodate at most five people at any time.
- III. The elevator stops at each floor.

- IV. On this trip, the elevator goes only up.
- V. The elevator can hold only 400 kg or it breaks down.
- VI. Three people get inside the elevator at the second floor.

Which of the following must be true?

- a) Only one person on the elevator weighed over 100kg.
- b) Average weight of the people at the third floor did not exceed 80 kg.
- c) Each person getting on the elevator at the first floor weighed less than 60 kg.
- d) The average weight of the people inside the elevator at fifth floor did not exceed 80kg.

DIRECTIONS FOR QUESTIONS 71

Select the set of words that best expresses a relationship SIMILAR to the set in CAPITALS.

72. ENEMY : WEAPONS : ARMY
- a. Earthquake : Tremors : Landslide
 - b. Disaster : Aid : Refugees
 - c. Flood : Sand bags : Water
 - d. Fire : Water : Firemen

DIRECTIONS FOR QUESTIONS 72

The following questions consist of two words each that have a certain relationship with each other followed by alternatives. Select the alternative that has the same relationship as depicted in the original pair of words.

73. Gladiator : arena
- a. Participant : team
 - b. Commuter : train
 - c. Patient : ward
 - d. Lawyer : courtroom

DIRECTIONS FOR QUESTIONS 73

Each question consists of six sentences: the first and the last are already given in sequence. Arrange the remaining four sentences to form a coherent paragraph.

74.

1. Physical properties of a shampoo too are very important
2. After the cleaning and rinsing job is done, the hair should comb easily when wet, free to tangles, and be in a manageable condition for combing when dry.
3. Thereafter, it should spread easily and disperse quickly into the hair and on the scalp.
4. Finally, the shampoo should be rinsed out fast, and without leaving the hair tacky and sticky.
5. A shampoo should be viscous enough to stay on the palm before application over the head.

6. On drying, shampooed hair should retain its natural lustre with a healthy bounce without becoming frizzy.
- ADBC
 - DBCA
 - BDAC
 - DBAC

DIRECTIONS FOR QUESTIONS 74

In the following question given below a statement is given, followed by four statements. You have to choose the option that indicates the best (logically correct) sequencing of the opening statement with (any of) the two following statements

75. Whenever my phone rings, my dog barks.

- My phone rang.
- My dog barked.
- My dog didn't bark.
- My phone didn't ring.

- BA
- DC
- CD
- AC

76. Time and time again, it has been shown that students who attend colleges with low faculty/student ratios get the best-rounded education. As a result, when my children are ready for college, I'll be sure they attend a school with a very small student population.

Which of the following, if true, identifies the greatest flaw in the reasoning above?

- A low faculty/student ratio is the effect of a well-rounded education, not its source.
- Intelligence should be considered the result of childhood environment, not advanced education.
- A very small student population does not, by itself, ensure a low faculty/student ratio.
- Parental desires and preferences rarely determine a child's choice of a college or university.

-

77. Compute the following:

$$\frac{18^{-4} \cdot 3^8}{2^{-6}}$$

- 4
- 3
- 2
- 8

77. $4x^3 - ax^2 + bx - 4$ is divided by $(x-2)$ and $(x + 1)$, the respective remainders are 20 and -13. Find the value of a and b.

- (A) $a = 3, b = 2$
- (B) $a = 2, b = 3$
- (C) $a = 5, b = 1$
- (D) $a = 1, b = 5$

78 Find the value of k so that the sum of the roots of equation $3x^2 + (2k + 1)x = k + 5$ is equal to the product of the roots

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

79. In how many ways 5 professors and 5 engineers can be seated in a round table so that they are positioned alternately?

- (A) 2880
- (B) 2088
- (C) 8082
- (D) 8820

80. Solve $\frac{1}{x} < \frac{2}{x-2}$.

- (A) $x > 2$ or $-2 < x < 0$
- (B) $x < 2$ or $-2 > x < 0$
- (C) $x > 1$ or $-1 < x < 0$
- (D) $x < 3$ or $-3 < x < 0$

81. A speaks truth in 75% cases and B in 80% of cases. In what percent of cases are they likely to contradict each other in narrating the same incident?

- (A) 25%
- (B) 5%
- (C) 35%
- (D) 50%

82. Two sides of a triangle are 85 m and 154 m and the perimeter is 324 m. Find the area of the triangle

- (A) 2772
- (B) 2500
- (C) 3000
- (D) 4072

83. How many revolutions will a wheel make in travelling 528 m if its diameter measures 0.5 m?

- (A) 264
- (B) 240
- (C) 528
- (D) 1056

84. If $\tan 60^\circ = \cot 40^\circ$, then find the value of $\sin 50^\circ$.

- (A) $1/\sqrt{2}$
- (B) $3/\sqrt{2}$
- (C) $\sqrt{2}$
- (D) 2

85. A ladder 15 m long just reaches the top of a wall and makes an angle of 60° with the wall. Find the distance of the foot of ladder from the wall.

- (A) 9 m
- (B) 11 m
- (C) 13 m
- (D) 15 m

86. Find the value of : $\log(0.8)$

- (A) $3 \log 2 - 1$
- (B) $2 \log 3 - 1$
- (C) $\log 2 - 1$
- (D) $\log 3 - 1$

87. Find the distance between the points (1,-2) and (-5, 6).

- (A) 10 units
- (B) 30 units
- (C) 6 units
- (D) 11 units

88. In an institute, 40 students are selected in defence, 30 students in administrative services and 20 students got selected in both the competitions. How many students: (i) are there in the institute and (ii) got selected in defence?

- (A) 50, 20
- (B) 50, 30
- (C) 70, 30
- (D) 70, 20

89. Find the number of divisors $2p^2qr$ where p, q and r are odd prime numbers.

- (A) 24
- (B) 42
- (C) 62
- (D) 82

90. Find the greatest number that will exactly divide 200 and 320

- (A) 50
- (B) 40
- (C) 20
- (D) 10

91. HCF and LCM of two numbers is 16 and 240 respectively. If one of the numbers is 48, find the other numbers.

- (A) 70
- (B) 80
- (C) 90
- (D) 100

92. $\frac{5}{12}$ part of what amount will be equal to $3\frac{3}{4}$ part of 100?

- (A) 1000
- (B) 900
- (C) 800
- (D) 700

93. Express "1.23" in terms of percentage.

- (A) 12.3%
- (B) 123%
- (C) $\frac{100}{123}$ %
- (D) None of the above

94. Find out 36 is 6% of what?

- (A) 600
- (B) 500
- (C) 400
- (D) 300

95. If X is 20% less than Y, then find $\frac{X}{Y - X}$.

- (A) 6
- (B) 5
- (C) 4
- (D) 3

96. The ratio between two numbers is 12:13. If each number is reduced by 20, the ratio becomes 2:3. Find the numbers.

- (A) 28,26
- (B) 27,26
- (C) 24,26
- (D) 24,20

97. In what ratio must 25% alcohol be mixed with 50% alcohol to get a mixture of 40% alcohol strength

- (A) 2:3
- (B) 2:1
- (C) 3:2
- (D) 3:1

98.. In two alloys, the ratio of copper to zinc are 5:2 and 3: 4. How many kg of the first alloy and the second alloy should be melted to-gether to obtain 28 kg of a new alloy with equal content of copper and zinc.

- (A) A = 7 kg, B= 21 kg
- (B) A = 14 kg, B = 14 kg
- (C) A = 21 kg, B = 7 kg
- (D) A = 8 kg, B = 20 kg

99. If 18 men working 5 hrs a day for 8 days can complete a job, how many men working 8 hours a day for 6 days will be needed?

- (A) 20 men
- (B) 18men
- (C) 15men
- (D) 14men

100. Four lorries carrying 4 tons each move 128 tons in 8 days. In how many days will 6 lorries carrying 3 tons each move 540 tons?

- (A) 28days
- (B) 30days
- (C) 32days
- (D) 34days