gradeup

SSC MTS Previous Year
Question Papers with Answers
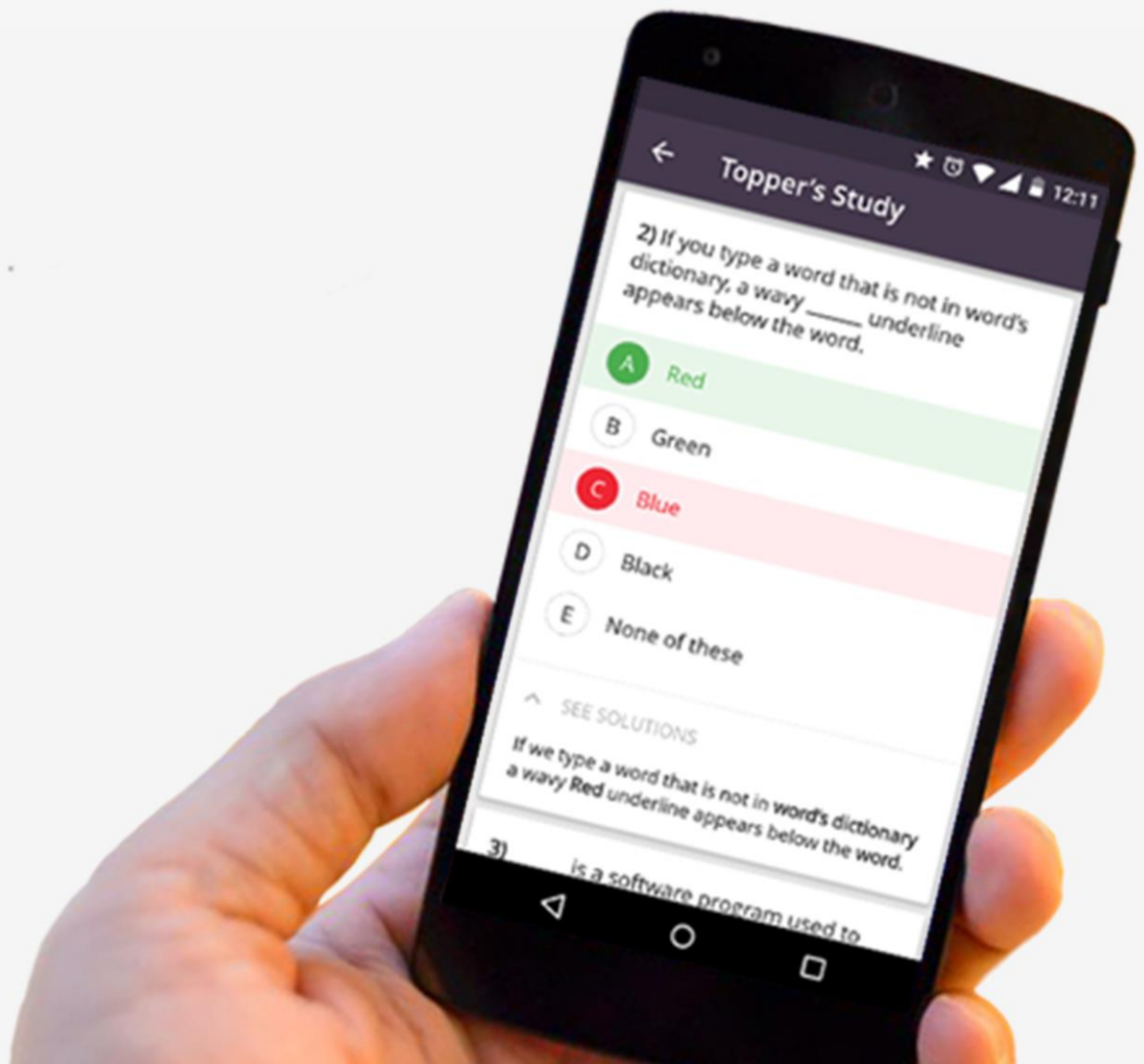
2) If you type a word that is not in word's dictionary, a wavy _____ underline appears below the word.

A Red

B Green

C Blue

D Black

E None of these

^ SEE SOLUTIONS

If we type a word that is not in word's dictionary, a wavy Red underline appears below the word.

3) _____ is a software program used to

PART-I
GENERAL INTELLIGENCE AND REASONING

Directions (1 – 4) : In each of the following questions, select the related word/ letter/number from the given alternatives.

1. 09 : 81 : : 04 : ?
- (1) 16
- (2) 25
- (3) 36
- (4) 49

2. Teacher : Student : : Lawyer : ?
- (1) Customer
- (2) Consumer
- (3) Client
- (4) Claimant

3. Mango : Fruit :: Jasmin : ?
- (1) Trees
- (2) Fragrance
- (3) Flower
- (4) Rose

4. ABC : RQP : : CBA : ?
- (1) QRP
- (2) PRQ
- (3) PQR
- (4) RPQ

Directions (5 – 7) : In each of the following questions, select the one which is different from other three alternatives.

5. (1) ADGJ
(2) MPSV
(3) EHJN
(4) LORU

6. (1) December
(2) January
(3) February
(4) March

7. (1) 18 – 26
(2) 30 – 37
(3) 54 – 62
(4) 77 – 85

8. Which one of the given responses would be a meaningful order of the following in ascending order ?
(A) Brahmaputra
(B) Atlantic
(C) Chilka
(D) Bay of Bengal
- (1) (A), (D), (C), (B)
- (2) (B), (D), (C), (A)
- (3) (C), (A), (D), (B)
- (4) (C), (D), (B), (A)

Directions (9–10): In each of the following questions, a series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series.

9. BC, GH, LM, __?__,
- (1) PQ
- (2) RS
- (3) QR
- (4) OP

10. 4, 8, 16, 32, __?__, 128
- (1) 64
- (2) 46
- (3) 112
- (4) 120

11. Two statements are given followed by two Conclusions I and II. You have to consider the statements to be true, even if it seems to be at variance from commonly known facts. You are to decide which of the given conclusion can definitely be drawn from the given statement. Indicate your answer.

Statements :
All pens are pencils.
No pencil is an eraser.

Conclusions :
I. No eraser is a pen.
II. No pen is an eraser.
- (1) Only conclusion I follows
- (2) Only conclusion II follows
- (3) Both conclusions I and II follow
- (4) Neither conclusion I nor conclusion II follows

12. Tina drives 45 kms towards East, turns right and drives 65 kms, then turns left and drives 33 kms. In which direction is she facing now ?
- (1) East
- (2) North
- (3) West
- (4) South

13. Select the correct combination of mathematical signs to replace signs and to balance the following equation:

21 * 7 * 6 * 9
- (1) + ÷ =
- (2) ÷ + =
- (3) = + ÷
- (4) ÷ = +

14. From the given alternatives select the word which cannot be formed using the letters of the given word.
"TERRORISM"
- (1) MIRROR
- (2) ERROR
- (3) MORE
- (4) ROAR

15. Some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.
5 + 7 + 2 = 725, 6 + 9 + 0 = 906, 8 + 4 + 3 = ?
- (1) 815
- (2) 384
- (3) 438
- (4) 834

16. Maya said, "My mother is the sister of Ranjeet's brother". What is Ranjeet's relation with Maya ?
- (1) Cousin
- (2) Maternal uncle
- (3) Uncle
- (4) Brother-in-Law

17. Five girls are sitting in a row. Sudha is sitting next to Padma but not next to Tapti. Krishna is sitting next to Rama who is sitting on the extreme left. Tapti is sitting on the extreme right. No body is sitting between Padma and Krishna. Who is sitting in the middle ?
- (1) Krishna
- (2) Padma
- (3) Sudha
- (4) Tapti

18. Select the missing number from the given responses:

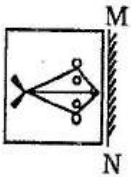| 7	14	19
6	12	17
5	10	?

- (1) 20
- (2) 18
- (3) 15
- (4) 16

19. In a certain code DELIBER-ATION is written as NOI-TAREBILED how would IN-FIRMITY be written ?
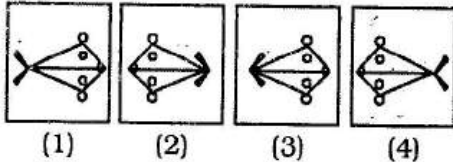   (1) ADONAEMI
    (2) REBILEDNA
    (3) YTIMRIFNI
    (4) YTRMIFNI

20. If a mirror is placed on the line MN, then which of the answer figures is the right image of the given figure ?
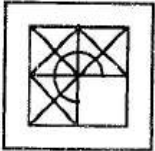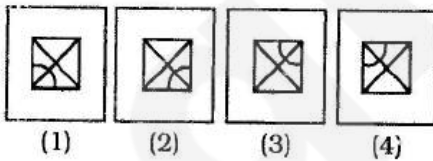
Question Figure

Answer Figures

(1)   (2)   (3)   (4)

21. Which answer figure will complete the pattern in the question figure ?

Question Figure

Answer Figures

(1)   (2)   (3)   (4)

22. A word is represented by only one set of numbers as given in any one of the alterna-tives. The sets of numbers given in the alternatives are represented by two classes of the alphabets as in two ma-trices given below. The col-umns and rows of Matrix I are numbered from 1 to 5 and that of Matrix II are num-bered from 6 to 10. A letter from these matrices can be

represented first by its row and next by its column, e.g., 'L' can be represented by 14, 33, 42 etc., and 'M' can be represented by 66, 79, 98 etc. Similarly, you have to identify the set for the word given below:

PINK

Matrix-I

	1	2	3	4
1	I	J	K	L
2	L	K	J	I
3	J	I	L	K
4	K	L	I	J
5	K	I	L	J

Matrix-II

	6	7	8	9
6	M	N	O	P
7	P	O	N	M
8	N	M	P	O
9	O	P	M	N
10	P	M	O	N

(1) 99, 11, 69, 22
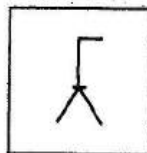(2) 69, 99, 11, 34
(3) 69, 11, 99, 41
(4) 69, 78, 51, 43

23. Identify the diagram that best represents the relation-ship among classes given be-low :
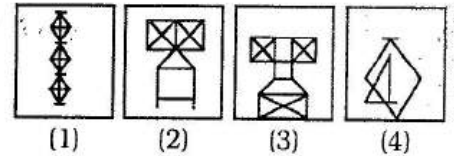
Parents, Mothers, Fathers

(1)   (2)

(3)   (4)

24. From the given answer fig-ures, select the one in which the question figure is hidden/embedded ?
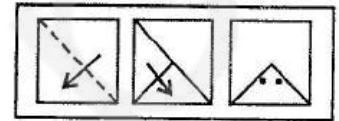
Question Figure

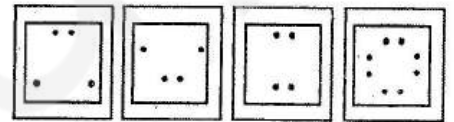**Answer Figures**

(1)   (2)   (3)   (4)

25. A piece of paper is folded and cut as shown below in the question figures. From the given answer figures, indi-cate how it will appear when opened ?

Question Figures

Answer Figures

PART-II
NUMERICAL APTITUDE

26. In a stock clearance sale, a shoe company announces 20% discount. If the discount-ed price is ₹ 800, the original price is :
    (1) ₹ 900   (2) ₹ 100
    (3) ₹ 4000   (4) ₹ 1000

27. Rekha purchased a scooter for ₹ 20,000 and sold it for ₹ 22,000. The percentage of profit is :
    (1) 10 %   (2) 20 %
    (3) 15 %   (4) 12 %

28. Raghubir after travelling 84 km, found that if he travelled at 5 km an hour more, he would have taken 5 hours less. He actually travelled at a rate of :
    (1) 5 km/hour
    (2) 6 km/hour
   (3) 7 km/hour
    (4) 10 km/hour

29. The cost price of a refrigera-tor is ₹ 28,000. The shopkeep-er offers a discount of 20% on it and loses 10%. The marked price of the refrigerator is :

(1) ₹ 25,200   (2) ₹ 27,000
(3) ₹ 28,000   (4) ₹ 31,500

30. A number of three digits when divided by 2, 5, 9 and 11 leaves remainder 1 in each case. The number is
   (1) 991   (2) 997
   (3) 981   (4) 983

31. The fourth proportional of the numbers 12, 16 and 18 is
   (1) 20   (2) 24
   (3) 28   (4) 30

32. The average of 11 results is 60 marks. If the average of first six results is 59 marks and that of the last six is 62 marks, then the sixth result contains :
   (1) 60 marks   (2) 61 marks
   (3) 65 marks   (4) 66 marks

33. Hundred apples were bought for ₹ 300. Out of these four were rotten and the rest were sold at ₹ 50 per dozen. Then the net profit is :
   (1) ₹ 50   (2) ₹ 125
   (3) ₹ 150   (4) ₹ 100

34. A can do a piece of work in 10 days and B can do the same piece of work in 20 days. They start the work together, but after 5 days A leaves. B will do the remaining piece of work in:
   (1) 6 days
   (2) 8 days
   (3) 5 days
   (4) 10 days

35. If the compound interest on a certain sum for 2 years at 4% is ₹ 102. what would be the simple interest at the same rate for two years ?
   (1) 100   (2) 98
   (3) 75   (4) 100.50

36. The cost price of 50 cups is equal to the sale price of 40 cups. The percentage of profit in the transaction is :
   (1) 15 %   (2) 20 %
   (3) 25 %   (4) 30 %

37. A shopkeeper purchases 10 pieces of certain items for ₹ 8.00 and sells them at 8 pieces for ₹ 10.00. The profit percentage of the shopkeeper is:
   (1) 25.50 %   (2) 26.25 %
   (3) 56.50 %   (4) 56.25 %

38. The ratio of land and water in the whole world is 1: 2. If this ratio in the northern hemisphere be 2 : 3; then the ratio of land and water in the southern hemisphere is:
   (1) 3 : 4   (2) 4 : 3
   (3) 4 : 7   (4) 4 : 11

39. A sum was put at simple interest at a certain rate for 4 years. Had it been put at 3% higher rate it would have fetched ₹ 1440 more. Find the sum.
   (1) ₹ 10,000   (2) ₹ 12,000
   (3) ₹ 14,400   (4) ₹ 11,000

40. The average wage of workers in a factory is ₹ 6,000. There are 12 officers having an average wage of ₹ 14,000, while the average wage of the remaining persons is ₹ 5,600, the number of the workers in that factory is :
   (1) 240   (2) 230
   (3) 242   (4) 252

41. The base of right prism is an equilateral triangle with a side of 7 m, and its height is 24m. Find its volume.
   (1) 529 m³   (2) 519 m³
   (3) 509 m³   (4) 1018 m³

42. A and B undertake to do a piece of work for ₹ 720. A alone can do it in 8 days and B alone can do it in 12 days. With the help of C they finish it in 4 days. Then the share of C in Rupees is :
   (1) 360   (2) 240
   (3) 120   (4) 300

43. Evaluate :
$$\sqrt{129+\sqrt{216+\sqrt{68+\sqrt{169}}}}$$

(1) 9   (2) 12
(3) 13   (4) 15

44. The side of a square increases by 10%, then find, by what percent, does its area increase ?
   (1) 19   (2) 21
   (3) 27   (4) 30

45. An article listed at ₹ 26,580 is sold at a discount of 10%. Due to festival season the shopkeeper allows a further discount of 5%. Find the selling price of the article.
   (1) ₹ 22,725.90
   (2) ₹ 23,922.00
   (3) ₹ 22,750.00
   (4) Rs. 22,725.00

46. A mixture of 20 kg. of spirit and water contains 10% water. After adding a certain amount of water, the weight of the new mixture is 25 kg. What is the percentage of water in the new mixture ?
   (1) 12.5%   (2) 15%
   (3) 18%   (4) 28%

47. To raise the height of a low land 48 m long and 31.5 m broad to 6.5 dm, a ditch 27 m long and 18.2 m broad was dug in a side plot, the depth of the ditch will be:
   (1) 1m   (2) 2m
   (3) 5m   (4) 7m

48. If a man covers $10\frac{1}{5}$ km in 3 hrs., the distance covered by him in 5 hrs. is :
   (1) 18 km   (2) 17 km
   (3) 16 km   (4) 15 km

49. The following pie-chart shows the percentage of literate and illiterate males and females in a city having a population 2,50,000.

☐ Illiterate female 8%
■ Literate male 35%
▦ Illiterate male 24%
☐ Literate female 33%
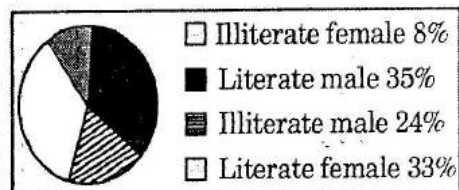
What is the difference between the number of literate males and literate females ?

(1) 75,000   (2) 1,500

(3) 5,000   (4) 500

Directions : Percentage share of goods transported through Air, Road, Rail and Sea in five countries: India, China, Korea, Japan, Iran.

Given the total weight of goods transported in the 5 countries in a year are.

1086, 3140, 1855, 2360 and 1465 thousand tonnes respectively.
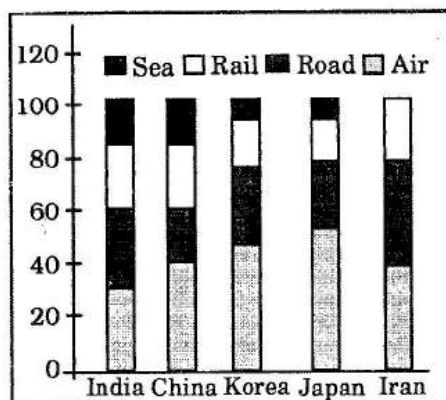
50. Which country transported the maximum quantity of goods by road ?

(1) China

(2) Korea

(3) Iran

(4) Japan

Directions (51-60) : In the following questions, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error. The number of that part is the answer. If a sentence is free from error, your answer is (4) i.e. No error.

51. Although we reached his house in time (1)/ he was left (2)/ for the airport. (3)/ No error. (4)

52. The two last (1)/ chapters of the book (1)/ are very interesting.(3)/ No error. (4)

53. I have seen (1)/ that film last year (2)/ but I do not remember its story.(3)/ No error. (4)

54. Mahatma Gandhi remained (1)/ a man of principles (2)/ all through his life. (3)/ No error. (4)

55. Rustam and (1)/ myself saw (2)/ the picture. (3)/ No error.(4)

56. A lot of money (1)/ were spent (2)/ on the common wealth games. (3)/ No error. (4)

57. You will come (1)/ to my party tomorrow (2)/ isn't it. (3)/ No error. (4)

58. The old man was (1)/ overwhelmed for joy at (2)/ the success of his only son. (3)/ No error. (4)

59. The hockey match (1)/ between India and Pakistan (2)/ was much exciting. (3)/ No error. (4)

60. His composition (1)/ is inferior (2)/ than mine. (3)/ No error. (4)

Directions (61–70) : In the following questions, sentences are given with blanks to be filled in with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four as your answer.

61. Though this blanket is not made of wool, it has a _____ texture.

(1) wool   (2) woollen

(3) woolly   (4) woolish

62. None of the guests ate much at the party because the food looked _____.

(1) unapproachable

(2) unauthorized

(3) unceremonious

(4) unappetizing

63. Trust _____ god and do the right.

(1) in   (2) with

(3) at   (4) by

64. The accused was _____ as the counsel could not produce a witness.

(1) let out   (2) let off

(3) let on   (4) let aside

65. _____ thousand species of butterflies have been identified.

(1) As many as (2) As many

(3) As much as (4) Much as

66. He _____ his mistake.

(1) understood (2) solved

(3) finished   (4) realised

67. You will not be allowed to enter _____ you have an entry pass.

(1) if   (2) unless

(3) when   (4) but

68. It has been years since I last _____ him.

(1) had met   (2) met

(3) meet   (4) have met

69. These murals are typical _____ Tamil Nadu.

(1) for   (2) on

(3) with   (4) of

70. The flight will land _____ six this evening.

(1) in   (2) on

(3) at   (4) upon

Directions (71–73) : In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word.

71. Wander
    (1) Ride   (2) Desire
    (3) Roam   (4) Treat

72. Taciturn
    (1) Gloomy   (2) Sarcastic
    (3) Upset   (4) Silent

73. Fury
    (1) Shout   (2) Scold
    (3) Frown   (4) Anger

Directions (74–76) : In the following questions, choose the word opposite in meaning to the given word.

74. Genuine
    (1) Innocent (2) Reckless
    (3) Spurious (4) Diluted

75. Stingy
    (1) Extravagant
    (2) Self-sufficient
    (3) Spiteful
    (4) Broad-minded

76. Rapid
    (1) Glorious (2) Silly
    (3) Slow   (4) Simple

Directions (77–79) : In the following questions, four alternatives are given for the Idiom/Phrase printed in **bold** in the sentence. Choose the alternative which best expresses the meaning of the Idiom/Phrase.

77. He was the **bad egg** in the family.
    (1) greedy   (2) worthless
    (3) valuable (4) unwanted

78. **to get into hot water**
    (1) to have a hot bath
    (2) to keep warm
    (3) to get into trouble
    (4) to get drowned

79. **a wild-goose chase**
    (1) run after a bird
    (2) a fruitful search
    (3) long pursuit
    (4) fruitless pursuit

Directions (80–84) : In the following questions, a part of the sentence is printed in **bold**. Below are given alternatives to the bold part at (1), (2), (3) which may improve the sentence. Choose the correct alternative. In case no improvement is needed, your answer is (4).

80. Stop taking bribe lest **you are caught.**
    (1) might be caught
    (2) will be caught
    (3) may be caught
    (4) No improvement

81. Someone has **tempered** with my lock
    (1) trampled
    (2) tampered
    (3) tethered
    (4) No improvement

82. **Some people has all the luck even when they did not tried very hard.**
    (1) Some people has all the luck even when they do not try very hard.
    (2) Some people have all the luck even when they do not tried very hard.
    (3) Some people have all the luck even when they do not try very hard.
    (4) No improvement

83. **A lot of effort went into collecting the data.**
    (1) The data went into collecting a lot of effort.
    (2) The collecting a lot of effort went into data.
    (3) Went into a lot of effort collecting the data.
    (4) No improvement.

84. **To contact doctor attempts were made.**
    (1) The doctor were made attempts to contact.
    (2) The doctor were attempts made to contact.
    (3) Attempts were made to contact the doctor.
    (4) No improvement.

Directions (85-89) : In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/ sentences.

85. A decorative ring of flowers and leaves
    (1) Wreathe (2) Wreath
    (3) Wreeth   (4) Wrath

86. A man of evil reputation
    (1) Notorious
    (2) Gracious
    (3) Laborious
    (4) Mischievous

87. An inscription on a tomb
    (1) Epitaph   (2) Dirge
    (3) Pyre   (4) Cenotaph

88. A public institution for the care and protection of children without parents.
    (1) Conservatory
    (2) Orphanage
    (3) Academy
    (4) Asylum

89. A heavy continuous fall of rain
    (1) Drizzle   (2) Blizzard
    (3) Downpour (4) Avalanche

Directions (90-95) : In the following questions, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word.

90. (1) Occassion (2) Occasion
    (3) Occation   (4) Ocassion

91. (1) Abducter   (2) Abductor
    (3) Abdactor   (4) Abductar

92. (1) Disasterous
    (2) Disastrous
    (3) Disastrus
    (4) Disasterus

93. (1) Maternity
    (2) Matternity
    (3) Maternitty
    (4) Matarnity

94. (1) Teution   (2) Tution
    (3) Tuision   (4) Tuition

95. (1) Recommandation
    (2) Recomendation
    (3) Recommendation
    (4) Recommendetion

Directions (96–100) : In the following questions, you have a passage with 5 questions. Read the passage carefully and choose the best answer to each question out of the four alternatives.

Peter Pan is a character created by Scottish novelist and play-

wright JM Barrie. A mischievous boy who can fly and who never ages, Peter Pan spends his never-ending childhood adventuring on the small island of Neverland as the leader of his gang the Lost Boys, interacting with mermaids, Native Americans, fairies, pirates, and occasionally ordinary children from the world outside of Neverland. In addition to two distinct works by Barrie, the character has been featured in a variety of media and merchandise, both adapting and expanding on Barrie's works. Peter Pan first appeared in a section of The Little White Bird, a 1902 novel written by Barrie for adults. The character's best-known adventure debuted on 27 December 1904, in the stage play Peter Pan, or The Boy Who Wouldn't Grow Up. The play was adapted and expanded somewhat as a novel, published in 1911 as Peter and Wendy.

96. What are the other activities of Peter Pan, the age-less boy who can fly ?
(1) Interacting with ordinary children from outside Neverland
(2) Interacting with fairies and mermaids
(3) Interacting with J. M. Barrie
(4) Interacting with mermaids, native Americans, fairies, and ordinary children from outside Neverland

97. 'Peter and Wendy' was a _____.
(1) play   (2) novel
(3) short-story (4) film

98. J. M. Barrie's creation, Peter Pan, featured-in addition to play in _____.
(1) novels
(2) novels, media and merchandise
(3) media and merchandise
(4) None of the above

99. Mermaids are legendary aquatic creatures with :
(1) body of a fish and tail of a spaniel
(2) body of a woman and tail of a spaniel
(3) body of a woman and tail of a fish
(4) body of spaniel and tail of a fish

100. The stage play Peter Pan was performed in :
(1) 1902   (2) 1911
(3) 1904   (4) 1912

■ PART-IV ■
GENERAL AWARENESS

101. Meteorology is the science of:
(1) Weather
(2) Mateors
(3) Metals
(4) Earthquakes

102. Gandhi wanted to realise 'truth' through :
(1) Ahimsa (Non-violence)
(2) Dharma (Religion)
(3) Karma (Service)
(4) Dhyana (Meditation)

103. Taiga means :
(1) Decidious forests
(2) Coniferous forests
(3) Grass lands
(4) Deserts

104. Density of population shows:
(1) Land capital ratio
(2) Land product ratio
(3) Land labour ratio
(4) Man land ratio

105. The term PC means :
(1) Private Computer
(2) Personal Calculator
(3) Professional Calculator
(4) Personal Computer

106. The Indian Judiciary is headed by :
(1) The president
(2) The prime minister
(3) The supreme court
(4) The parliament

107. Animals having open circulatory system possesses :
(1) coelenteron
(2) spongocoel
(3) pseudocoel
(4) haemocoel

108. Magnetic keepers are used to protect magnets from :
(1) Earth's magnetic field
(2) effect of other magnets
(3) self-demagnetization
(4) demagnetization due to heating

109. The maximum time a person can continue to be the minister of the State Government without being a member the state legislature _____.
(1) One year
(2) Three months
(3) Six months
(4) No time limit

110. Gross domestic product is a measure of :
(1) A country's international economic activities
(2) A country's domestic economic activities
(3) A country's financial position
(4) A country's industrial output

111. Brine refers to :
(1) Salt water
(2) Sweet water
(3) Pure water
(4) Starch water

112. In which year did Gandhiji undertake the famous Dandi March ?
(1) 1920   (2) 1930
(3) 1925   (4) 1935

113. Who has been called the Napolean of India ?
(1) Chandragupta
(2) Vikramaditya
(3) Samudragupta
(4) Skandagupta

114. In which year Colombia hosted the NAM summit ?

(1) 1994   (2) 1995
(3) 1996   (4) 1997

115. The Central Food Technological Research Institute (CFTRI) is located at :
(1) Mysore
(2) Dehradun
(3) Nagpur
(4) Ernakulam

116. Which is not an anasthetic agent in surgical operations?
(1) Chloroform
(2) Ether
(3) Nitrous oxide
(4) Acetone

117. The Indian Institute of Science is located at :
(1) Chennai   (2) Bangalore
(3) Kolkata   (4) Mumbai

118. Insulin :
(1) increases blood sugar
(2) decreases blood sugar
(3) constricts blood vessels
(4) stimulates lactation

119. Who had played key role in the formation of Lokpal bill in India ?
(1) Vipin Hazarika
(2) Anna Hajare
(3) Baba Amte
(4) Medha Patekar

120. An object which absorbs all colours and reflects none appears :
(1) white   (2) grey
(3) blue   (4) black

121. The locomotion of insects to the source of light is called :
(1) Phototropic
(2) Hydrotropic
(3) Phototactic
(4) Thermotactic

122. Head office of Coca Cola company is in :
(1) New York
(2) New Jersey
(3) Atlanta
(4) Florida

123. Plant genetic material in 'Gene-Bank' is preserved at − 196° C in liquid nitrogen as.
(1) seedling and meristem
(2) mature seed (dry)
(3) pre-mature seed (high moisture)
(4) ripe fruit

124. Brass is an alloy of :
(1) Cu, Al and Zn
(2) Cu and Sn
(3) Cu and Zn
(4) Al and Mg

125. C.K.Naidu Life time achievement award 2013 is given to
(1) Kapil Dev
(2) Imran Khan
(3) Sunil Gavaskar
(4) M.S. Dhoni

126. Flowers emit fragrance to :
(1) purify air
(2) drive away flies
(3) attract insects
(4) perform all the above

127. The National Anthem was first sung in the year 1911 at the Annual session of the Indian National Congress held at :
(1) Pune   (2) Mumbai
(3) Kolkata   (4) Lucknow

128. Rectified spirit is :
(1) 95% ethyl alcohol
(2) 100% ethyl alcohol
(3) methylated spirit
(4) tincture iodine

129. Nylon is made up of :
(1) Polyamide
(2) Polyester
(3) Polyethylene
(4) Polypropylene

130. Sweat contains water and _____.
(1) Citric acid
(2) Lactic acid
(3) Salt   (4) Vinegar

131. The splitting of white light into its components is due to:
(1) reflection
(2) refraction
(3) transmission
(4) dispersion

132. How many bones are there in a newly born infant ?
(1) 206   (2) 230
(3) 280   (4) 300

133. Radioactive materials should be kept in the container made of :
(1) Fe   (2) Al
(3) Pb   (4) Steel

134. The purpose of devaluation is to :
(1) be little foreign currencies
(2) encourage exports
(3) discourage exports
(4) encourage import

135. Which of the following prevents bleeding of gums ?
(1) Ascorbic acid
(2) Vitamin B
(3) Nicotinamide
(4) Thiamine

136. Who among the following organised the "All India Depressed Classes Association." in colonial India ?
(1) M.K.Gandhi
(2) Jyotiba Phule
(3) Pandita Ramabai
(4) B.R. Ambedkar

137. The state operates through :
(1) Political Party
(2) Party President
(3) Government
(4) President

138. A small drop of oil spreads over water because :
(1) oil has a higher surface tension
(2) water has a higher surface tension
(3) oil has a higher viscosity
(4) water has a higher viscosity

139. Radiations which is not emitted during radioactivity is :
(1) α rays
(2) β rays
(3) γ rays
(4) Cathode rays

140. Which Article of the Indian Constitution empowers the Parliament to regulate right of citizenship ?
(1) Article 8   (2) Article 9
(3) Article 10   (4) Article 11

141. Which of the following devices is generally used to check multiple choice questions ?
    (1) OCR
    (2) OMR
    (3) MICR
    (4) Bar Code Reader

142. Name the country where the first Industrial Revolution took place :
    (1) America
    (2) Great Britain
    (3) Germany
    (4) France

143. Imperial Bank was constituted in the year :
    (1) 1930   (2) 1935
    (3) 1955   (4) 1921

144. The highly populated city in India is :
    (1) Chennai   (2) Delhi
    (3) Mumbai   (4) Kolkata

145. Which of the following is referred to as 'Young Fold Mountains' ?
    (1) Aravallis   (2) Nilgiris
    (3) Himalayas (4) Vindhyas

146. Which of the following would be called a "Secular" state?
    (1) The state which follows a particular religion
    (2) The state which is anti-religion
    (3) The state which does not discriminate between religions
    (4) The state which accepts all religions as religions of state

147. Who discovered the sea route to India ?
    (1) Vasco-da-gama
    (2) Columbus
    (3) Magellen
    (4) Bartho-lomev-Dias

148. Which of the following article of IPC is related to un-natural sex ?
    (1) 370   (2) 374
    (3) 376   (4) 377

149. The sepoy mutiny of 1857 occurred during the Governor Generalship of :
    (1) Lord Dalhousie
    (2) Lord Lytton
    (3) Lord William Bentinck
    (4) Lord Canning

150. By default, to run an application through mouse, which one of the following has to be done ?
    (1) Right click
    (2) Left click
    (3) Single click
    (4) Double dick

Solutions

1. Ans. (1)

$09 : 81 :: 04 :$

$9^2 \rightarrow 81$

$4^2 \rightarrow 16$

2. Ans. (3)

Teacher : Student : : Lawyer : Client

Relation   Relation

3. Ans. (3)

Mango $\rightarrow$ fruit

Jasmin $\rightarrow$ flower

4. Ans. (3)

ABC : RQP :: CBA :

$\left.\begin{array}{l} ABC \rightarrow CBA \\ RQP \rightarrow PQR \end{array}\right]$ ABC is written in reverse

So, RQP has to be written PQR

5. Ans. (3)

- A D G J
  1 4 7 10
  +3 +3 +3

- M P S V
  13 16 19 22
  +3 +3 +3

- E H J N
  5 8 10 14
  +3 +2 +4

- L O R U
  12 15 18 21
  +3 +3 +3

6. Ans. (3)

As December, January, March all have 31 days. February has 28 or 29 days, so February is different from three alternatives.

7. Ans. (2)

18 – 26 difference $\Rightarrow$ 26 – 18 = 8

37 – 30 difference $\Rightarrow$ 37 – 30 = 7

54 – 62 difference $\Rightarrow$ 62 – 54 = 8

77 – 85 difference $\Rightarrow$ 85 – 77 = 8

Option (1), (3) and (4) has difference of 8 and option (2) has different of 7.

8. Ans. (3)

Let's arrange them in ascending order

Chilka < Brahmputra < Bay of Bengal < Atlantic Ocean

(C)   (A)   (D)

(B)

9. Ans. (3)

+1   +1   +1   +1
BC   GH   LM   QR
2   7   12   17
  +5   +5   +5

10. Ans. (1)

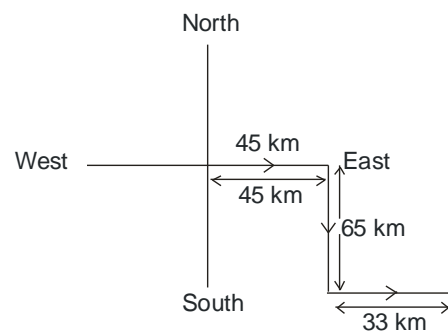4   8   16   32   64   128
  ×2   ×2   ×2   ×2   ×2

11. Ans. (3)
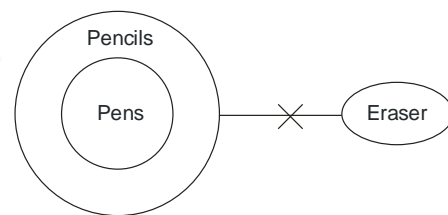
Here, we can see that there is nor relation between eraser and pencils but all pens are pencils.

So, there is also no relation between pens and eraser.

12. Ans. (1)

Tina's final direction is also East.

13. Ans. (2)

$21 \times 7 \times 6 \times 9$

$21 \div 7 + 6 = 9$

14. Ans. (4)

T E R R O R I S M

Option (4) ROAR has letter 'A' and 'A' is not available in TERRORISM. So, option (4) ROAR
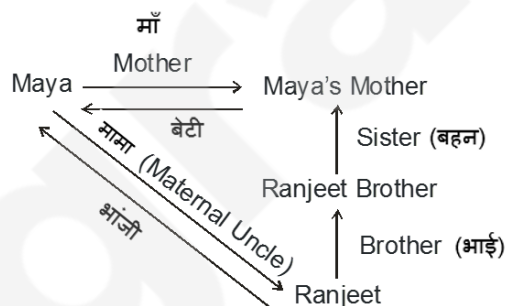
15. Ans. (3)

Similarly,

16. Ans. (2)

17. Question is wrong.

18. Ans. (3)

$7 \xrightarrow{\times 2} 14 \xrightarrow{+5} 19$

$6 \xrightarrow{\times 2} 12 \xrightarrow{+5} 17$

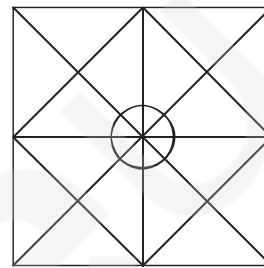$5 \xrightarrow{\times 2} 10 \xrightarrow{+5} ? = 15$

19. Ans. (3)

You can see that 'D E L I B E R A T I O N' is written reversely.

So, I N F I R M I T Y can be written Y T I M R I F N I in the same reverse manner.

20. Ans. (4)

21. Ans. (4)

22. Ans. (3)
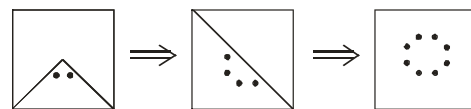
P   I   N   K
69 11 99 41

23. Ans. (3)
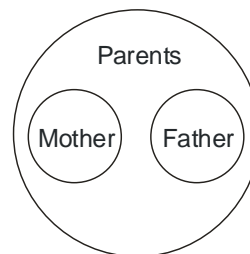
24. Ans. (2)

25. Ans. (4)

26. Ans. (4)

Let the original price is x Rs. And discount given = 20%

Then, discounted price $= \dfrac{(100 - 20)}{100} \times x$

$$800K = \frac{80}{100}x$$

$$x = \frac{800 \times 100}{80}$$

x = 1000

27. Ans. (1)

CP of scooter = 20,000

SP of scooter = 22,000

Profit = SP – CP = 2000

Profit % $= \frac{profit}{CP} \times 100$

$= \frac{2000}{20,000} \times 100 = 10\%$

28. Ans. (3)

Let Raghu travelled at x km/hr

Time taken to cover 84 km $= \frac{84}{x}$

If he has travelled 5 hour less then, he would have taken 5 hour more than earlier.

So, $\frac{84}{x-5} = \frac{84}{x} + 5$

If you solve these equation, you will get quadratic.

So, solve it by options method or by complete divisible method.

Check option :

(1) 5 km/hour time 84/5, 10 km/hr, time 8.4 hr.

(2) 6 km/hour time 84/6 = 14 hrs; 11 km/hr, time 14 hr.

(3) 7 km/hour time 84/7 = 12 hrs; 12 km/hr, time 84/12 hr.

Only in option (3), time difference is 5 hours.

So answer is (3)

29. Ans. (4)

Given, cost price of refrigerator

= Rs. 28,000

Selling price $= \frac{(100 - loss\%)}{100} \times$ cost price

Selling price

$= \frac{(100 - discount\%)}{100} \times$ market price

market price $\times \frac{(100 - discount\%)}{100}$

$= \frac{(100 - loss\%)}{100} \times$ cost price

$\frac{market\ price}{cost\ price} = \frac{(100 - loss\%)}{(100 - discount)}$

Market Price $= \frac{(100 - 10)}{(100 - 20)} \times 28,000$

$= \frac{9\cancel{0}}{8\cancel{0}} \times 20000$

$= \frac{9}{8} \times 3500$

Market Price = 31500

So, option (4) is answer

Short Trick : $\frac{MP}{CP} = \left(\frac{100 - loss\ \%}{100 - discount} \right)$

30. Ans. (1)

Number will be LCM of (2, 5, 9 and 11)+ 2

LCM of 2, 5, 9 and 11 is 990

So, number = 990 + 1 = 991

31. Ans. (2)

Let fourth proportional is x

12 : 16 :: 18 : x

12 × x = 16 × 18

$x = \frac{16 \times 18}{12} = 24$

32. Ans. (4)

Avg. of 11 results = 60 marks

Sum of 11 results = 660 marks

Avg. of first six result = 59

Sum of first six result = 59 × 6 …….. (i)

Avg. of last six results = 62 marks

Sum of last six result = 62 × 6 ……. (ii)

Let middle number is x.

If we add eqn (i) and eqn. (ii)

We will add sixth result 'x' two times

So, 59 × 6 + 62 × 6 = (sum of 11 results) + sixth result

59 × 6 + 62 × 6 = 660 + x

(59 + 62) × 6 = 660 + x

121 × 6 = 660 + x

726 = 660 + x

x = 726 − 660 = 66

33. Ans. (4)

Total apples bought = 100

Rotten apples = 4

Rest apples = 96 or 8 dozens

Selling price of per dozen apples = 50 Rs.

Total selling price = 50 × 8 = 400 Rs.

Cost price of apples = 300 Rs.

Profit = SP − CP

= 400 − 300

= 100 Rs.

34. Ans. (3)

Efficiency (η)

$$\frac{20}{10} = 2 \leftarrow A \rightarrow 10 \, days$$
$$> 20 (LCM \, of \, 10 \, and \, 20)$$
$$\frac{20}{20} = 1 \leftarrow B \rightarrow 20 \, days$$

So, total work is 20 units and efficiency of A is 2 and efficiency of B is 1.

They work together for 5 days, so total work done in 5 days = 5 × (η_A + η_B)

= 5 × (2 + 1)

= 5 × 3 = 15 units

Now, 5 units of work is remaining

B will take $= \dfrac{\text{Remaining work}}{\eta_B} = \dfrac{5}{1} = 5 \, days$

Hence, option (3) is answer.

Short trick : $\begin{array}{l} 2 \leftarrow A \ 10 \\ 1 \leftarrow B \ 20 \end{array} > 20$.

$5(A+B) x B = 20$

$5(2+1) + x \times 1 = 20$

$x = 20 - 15 = 5 \, days$

35. Ans. (1)

Net rate for component interest @ 4% per annum for 2 years = 8.16%

So, 8.16 = 102

Net rate for simple interest @ 4% per annum for 2 year = 8%

$8.16 \Rightarrow 102$

So, $8 \Rightarrow \dfrac{102}{8.16} \times 8$

8 = 100

Hence, simple interest for 2 years is Rs. 100

36. Ans. (3)

50 CP = 40 SP

$\dfrac{CP}{SP} = \dfrac{4}{5} \Rightarrow \dfrac{SP}{CP} = \dfrac{5}{4}$

Profit = SP − CP = 5 − 4 = 1

Profit % = $\dfrac{\text{Profit}}{CP} \times 100$

$= \dfrac{1}{4} \times 100 = 25\%$

37. Ans. (4)

CP = 0.8

SP = 1.25

Profit %

$$=\frac{1.25-0.8}{0.8}\times100$$

$$=\frac{.45}{.80}\times100$$

$$=\frac{45}{8\cancel{0}}\times10\cancel{0}$$

$$=56.25\%$$

38. Ans. (4)

Let total surface area of earth is 150

Then land : water = 1:2

i.e., land $=\frac{1}{3}\times150=50$

water $=\frac{2}{3}\times150=100$

Northern and southern hemisphere parts will be equal.

So, surface area of northern hemisphere = 75

surface area of southern hemisphere = 75

Now given ratio of land : water in northern is 2 : 3

$$land=\frac{2}{5}\times75=30$$

$$water=\frac{3}{5}\times75=45$$

Remaining land on southern hemisphere = 50 – 30 = 20

Remaining water on southern hemisphere = 100 – 45 = 55

Ratio of land and water on southern hemisphere = 20 : 55 = 4 : 11

39. Ans. (2)

In simple interest:

If rate has been increased by 3% for 4 years

Then, we can say that

$4\times3\%\Rightarrow1440$

$12\%\Rightarrow1440$

$100\%\Rightarrow12000\,Rs.$

40. Ans. (4)

Let the total number of workers are x.

So, 6000 × x = 14000 × 12 + 5600 (x + 12)

60x = 140 × 12 + 56 (x - 12)

4x = 140 × 12 - 56 × 12

4x = 84 × 12

x = 252

By allegation

Let no. of remaining persons are x.

So, total number of workers = x + 12

Remaining workers 5600   Officers 14000

6000

8000   400
(14000 – 6000)   (6000 – 5600)
x   :   12

So,
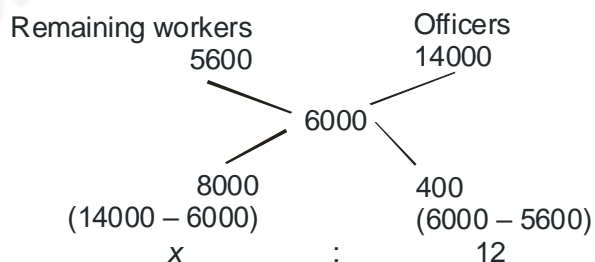
$$\frac{x}{12}=\frac{\overset{20}{\cancel{8000}}}{\cancel{400}}$$

$$x=240$$

Total number of persons

= 240 + 12 = 252

41. Ans. (3)

Volume of right prism

= Area of base × height

$$= \left(\frac{\sqrt{3}}{4} 9^2\right) \times h$$

$$= \left(\frac{\sqrt{3}}{\cancel{4}} 7^2\right) \times \cancel{24}^{6}$$

$$= 49 \times 6\sqrt{3}$$

$$= 29 - 4\sqrt{3}$$

$$= 294 \times 1.732$$

$$\simeq 509$$

(don't do exact calculation)

42. Ans. (3)

No. of days

A		B		$A+B+C$
8		12		4
2	:	3	:	1

So, efficiency,

3×1 : 2×1 : 2×3

3 : 2 : 6

$x_{A+B+C} = 6$

$x_C = x_{A+B+C} - x_{A+B} = 6 - (3 + 2) = 1$

Share of $C = \dfrac{x_C}{x_{A+B+C}} \times 720$

Share of $C = \dfrac{1}{6} \times 720$

$= 120\,Rs.$

43. Ans. (2)

$$\sqrt{129 + \sqrt{216 + \sqrt{68 + \sqrt{169}}}}$$

$$\sqrt{129 + \sqrt{216 + \sqrt{68 + 13}}}$$

$$\sqrt{129 + \sqrt{216 + 9}}$$

$$\sqrt{129 + 15}$$

$$\sqrt{144}$$

$$= 12$$

44. Ans. (2)

$$a + b + \frac{ab}{100}$$

$$10 + 10 + \frac{10 \times 10}{100}$$

$$21\%$$

45. Ans. (1)

SP of an article

$$= 26{,}500 \times \frac{\overset{9}{\cancel{90}}}{\underset{10}{\cancel{100}}} \times \frac{\overset{19}{\cancel{95}}}{\underset{20}{\cancel{100}}} = 2275.90$$

46. Ans. (4)

You can use, this formula is applicable for the substance which is not changed in the mixture

Old solution × old % = new solution × new %

In this case, spirit has not been changed.

20 × 90% = 25 × x

$$x = \frac{\overset{4}{\cancel{20}} \times 90}{\underset{5}{\cancel{25}}} = 72\%$$

47. Ans. (2)

6.5 cm = .65 m

Volume of low land = volume of ditch

48 × 31.5 × .65 = 27 × 18.2 × depth

$$\frac{48 \times 315 \times 65}{100} = 27 \times 182 \times depth$$

= depth = 2m

48. Ans. (2)

$$3\,hrs \to \frac{51}{5} \\ 5\,hrs \to x$$ $$\Rightarrow \frac{3}{5} = \frac{\frac{51}{5}}{x}$$

$$x = \frac{51}{5} \times \frac{5}{3}$$

x = 17 km

49. Ans. (3)

difference between lite rate male and lite rate female

$$= \frac{(35\% - 33\%)}{100} \times 2,50,000$$

$$= \frac{2}{100} \times 2,50,000 = 5,000$$

50. Ans. (3)

By road,

For India = 30% × 1086

$$= \frac{3}{10} \times 1086 = \simeq 325$$

For China $= \frac{1}{5} \times 3140 = 628$

For Korea $= \frac{3}{10} \times 1855 \simeq 556$

For Japan $= \frac{3}{10} \times 2360 = 708$

For Iran $= \frac{1}{2} \times 1465 = 732.5$

Hence, Iran has maximum quantity in goods by road.

51. Ans. (2)

Error is in part (2) (was) → had.

52. Ans. (1)

The last two.

53. Ans. (1)

I had seen.

54. Ans. (4)

55. Ans. (2)

⇒ I

56. Ans. (2)

'was' in place of were.

57. Ans. (3)

Won't you?

58. Ans. (2)

Overwhelmed with joy.

59. Ans. (3)

60. Ans. (3)

inferior to

61. Ans. (3)

62. Ans. (4)

63. Ans. (1)

Trust in

64. Ans. (2)

65. Ans. (1)

66. Ans. (4)

67. Ans. (2)

68. Ans. (2)

Present perfect + Simple past

69. Ans. (4)

of

70. Ans. (3)

71. Ans. (3)

Wander means to roam

72. Ans. (4)

Taciturn means – uncommunicative or silent

73. Ans. (4)

Fury means anger

74. Ans. (3)

75. Ans. (1)

Stingy means ungenerous or misery

76. Ans. (3)

Rapid means fast its antonym is slow.

77. Ans. (2)

78. Ans. (3)

79. Ans. (4)

80. Ans. (1)

81. Ans. (2)

82. Ans. (3)

83. Ans. (4)

84. Ans. (3)

85. Ans. (2)

86. Ans. (1)

87. Ans. (1)

88. Ans. (2)

89. Ans. (3)

90. Ans. (2)

91. Ans. (2)

92. Ans. (2)

93. Ans. (1)

94. Ans. (4)

95. Ans. (3)

96. Ans. (4)

97. Ans. (2)

98. Ans. (2)

99. Ans. (3)

100. Ans. (3)

101. Ans. (1)

The science of weather is called meteorology.

102. Ans. (1)

103. Ans. (2)

104. Ans. (4)

105. Ans. (4)

PC means personal computer.

106. Ans. (3)

107. Ans. (4)

108. Ans. (3)

109. Ans. (3)

110. Ans. (2)

111. Ans. (1)

112. Ans. (2)

Dandi March.

113. Ans. (3)

114. Ans. (2)

Colombia hosted the NAM summit in 1995.

115. Ans. (1)

116. Ans. (4)

117. Ans. (2)

118. Ans. (2)

119. Ans. (2)

120. Ans. (4)

121. Ans. (1)

122. Ans. (3)

123. Ans. (2)

124. Ans. (3)

125. Ans. (1)

126. Ans. (3)

127. Ans. (3)

128. Ans. (1)

129. Ans. (1)

130. Ans. (3)

131. Ans. (4)

132. Ans. (4)

133. Ans. (3)

134. Ans. (2)

135. Ans. (1)

136. Ans. (4)

137. Ans. (3)

138. Ans. (2)

139. Ans. (4)

140. Ans. (4)

141. Ans. (2)

142. Ans. (2)

143. Ans. (4)

144. Ans. (3)

145. Ans. (3)

146. Ans. (3)

147. Ans. (1)

148. Ans. (4)

149. Ans. (4)

150. Ans. (4)