

SRI KRISHNAVENI COACHING CENTRE

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Time: 2hr

EXAM: SSC (CHSL)

MODEL PAPER - 6

Max: Mar: 200

PART-I GENERAL INTELLIGENCE

Directions (1- 7): In each of the following questions, select the related word / letters / numbers from the given alternatives.

- 76 : 42 :: 66 : ?
(1) 63 (2) 12 (3) 35 (4) 36
- Picture : See :: Book : ?
(1) Library (2) Buy (3) Read (4) Listen
- Dark : Light :: ?
(1) Hot : Cold
(2) Polluted : Contaminated
(3) Accrued : Accumulated
(4) Ill: Diseased
- Swimming : River :: Hiking : ?
(1) Sea (2) Road
(3) Pond (4) Mountain
- HOPEFUL : LUFEPQH :: ETHNICITY: ?
(1) CINHTEYTI (2) YTCINHTE
(3) TICINHTEY (4) ICINHTEYT
- MOQS : ACEG :: PRTV : ?
(1) OQSU (2) EGLJ
(3) FHJM (4) KMNP
- 36 : 144 :: 49 : ?
(1) 154 (2) 81 (3) 149 (4) 196

Directions (8-11): In each of the following questions, find the odd word / letters / number pair from the given alternatives.

- (1) WTQN (2) MKHE (3) MIDA (4) KHEB
- (1) 64, 73 (2) 46, 57
(3) 38, 49 (4) 41, 52
- (1) Square : Line (2) Circle : Arc
(3) Line : Dot (4) Hexagon : Angle
- (1) Publisher (2) Author
(3) Novelist (4) Poet
- Arrange the following words according to English Dictionary:
1. Bound 2. Bonus
3. Bunch 4. Board
(1) 4, 3, 2, 1 (2) 1, 4, 2, 3
(3) 2, 4, 3, 1 (4) 4, 2, 1, 3
- Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
a _ a _ abab _ ba _
(1) bbab (2) abab
(3) baab (4) abba
- In the following letters series, how many times does 'P' occur in such a way that after 'P', NO should occur? APNQPNOSPTOZPNO YMPNO
(1) 5 (2) 4 (3) 3 (4) 2
- Find out the set among the four sets which is like the given set.

(23 : 30 : 37)

- (1) (12 : 19 : 25) (2) (6 : 13 : 20)
(3) (7 : 15 : 22) (4) (21 : 28 : 34)
- Which one of the given responses would be a meaningful order of the following?
1. Plant 2. Fruit 3. Seed 4. Flower
(1) 3, 2, 1, 4 (2) 3, 2, 4, 1
(3) 3, 1, 2, 4 (4) 3, 1, 4, 2
- Directions (17-19) :** In each of the following questions, a select is given with one term missing. Choose the correct alternative from the given ones that will complete the series.
- 1, 3, 7, 15, 31, ?
(1) 63 (2) 37 (3) 36 (4) 73
- YVP, WTN, URL, ?
(1) TQL (2) VSP (3) SRJ (4) SPJ
- 2, 8, 18, 32, 50, ?
(1) 68 (2) 64 (3) 72 (4) 70
- If PARK is coded as 5394, SHIRT is coded as 17698 and PANDIT is coded as 532068, how would you code NISHAR in that code language?
(1) 261739 (2) 266734
(3) 231954 (4) 201739
- If the 5th date of a month is Tuesday, what date will be 3 days after the 3rd Friday in the month?
(1) 22 (2) 19 (3) 18 (4) 17
- Seema's younger brother Sohan is older than Seeta. Sweta is younger than Deepti but elder than Seema. Who is the eldest? , ,
(1) Deepti (2) Seema
(3) Sweta (4) Seeta
- Rahim and his uncle differ in their ages by 30 years.' After 7 years, if the sum of their ages is 66, what will be the age of the uncle ?
(1) 41 (2) 51 (3) 49 (4) 39
- Sohan ranks seventh from the top and twenty-sixth from the bottom in a class. How many students are there in the class?
(1) 34 (2) 31 (3) 32 (4) 33
- C is the mother of A and B. If D is the husband of B, what is C to D?
(1) Sister (2) Mother
(3) Aunt (4) Mother-in-law
- If A = 1, ACE = 9, than ART = ?
(1) 38 (2) 10 (3) 39 (4) 29
- From the given alternatives select the word which **can** be formed using the letters of the given word.

DICTIONARY

- (1) DIARY (2) NATION
(3) ADDITION (4) BINARY

28. From the given alternatives select the word which **cannot** be formed using the letters of the given word.

SIGNATURE

- (1) GAIN (2) NATURE
(3) GATE (4) SIGHT

29. If 'SYNDICATE' Is written as 'SYTENDCAI' then how can 'PSYCHOTIC' be written?

- (1) PSICYCOTH (2) PSYICTCOH
(3) PSYCOHTCI (4) PSICYOCTH

30. Some letters are given below in the first line and numbers are given below them in the second line. Numbers are the codes for the alphabets and vice-versa. Choose the correct letter code for the given set of numbers.

E	M	K	B	Z	W	Q	U	D	J
5	9	1	6	4	8	2	0	7	3

4 2 9 7 5 3

- (1) ZQEDMJ (2) ZQMJDE
(3) ZQMEDJ (4) ZQMDEJ

Directions (31-32): In each of the following questions, select the missing number from the given Responses.

31. 96 100 132
6 4 6
5 7 3
21 32 ?

- (1) 20 (2) 25 (3) 30 (4) 32

32. 5 25 5
7 49 7
6 ? 6

- (1) 40 (2) 36 (3) 35 (4) 38

Directions (33-34): In each of the following questions, some equations are solved on the basis of a certain, system. On the same basis find out the correct answer for the unsolved equation.

33. $5 \times 6 \times 4 = 456$, $3 \times 6 \times 5 = 536$, $4 \times 8 \times 7 = ?$
(1) 784 (2) 748 (3) 478 (4) 847

34. If $782 = 20$ and $671 = 17$, then $884 = ?$
(1) 23 (2) 32 (3) 19 (4) 26

35. One morning at 7 O'clock, Naresh started walking with his back towards the Sun. Then he turned towards left, walked straight and then turned towards right and walked straight. Then he again turned towards left. Now In which direction is he facing?

- (1) South (2) North
(3) East (4) West

36. A cyclist goes 30 km to North .and then turning East he goes 40 km. Again he turns to his right and goes 20 km. After this, he turns to his right and goes 40 km. How far is he from his starting point?

- (1) 40 km (2) 6 km
(3) 10 km (4) 25 km

37. Select the correct combination of mathematical signs to replace * signs and to balance the given equation.

$9 * 7 * 2 * 3 * 10$

- (1) $- \div \times =$ (2) $\div \times + =$
(3) $- + \div =$ (4) $+ - \times =$

38. If '+' denotes ' \div ', '-' denotes ' \times ', ' \times ' denotes '-' and ' \div ' denotes '+', then

$35 + 7 - 5 \div 5 \times 6 = ?$

- (1) 14 (2) 36 (3) 24 (4) 20

Directions (39-40) : in each of the following questions, two statements are given followed by two conclusions I and II. You have to consider the statements to be true even if they seem to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follow from the given statements. Indicate your answer.

39. **Statements :**

1. All students In my class are intelligent.
2. Sunil Is not Intelligent.

Conclusions

- I. Sunil is not a student of my class.
II. Sunil must work hard.

- (1) Neither conclusion I nor II follows
(2) Only conclusion I follows
(3) Only conclusion II follows
(4) Both conclusions I and II follow

40. **Statements :**

1. Education is a process of lighting..
2. Mind requires light lo enlighten the core of cognitive aspect.

Conclusions:

- I. Education is a light which removes the darkness of mind.
II. Education is a static process for mind.

- (1) Neither conclusion I nor II follows
(2) Only conclusion I follows
(3) Only conclusion II follows
(4) Both conclusions I and II follow

41. Five boys A, B, C, D and E are standing in a row. D is on the right of E. B is on the left of E, but on the right of A. D is on the left of C, who is standing on the extreme right. Who is standing in the middle?

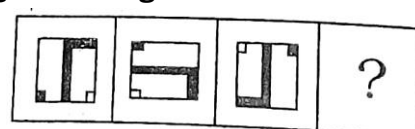
- (1) E (2) B (3) C (4) D

42. 3 daily wage workers A, B and C are distributed Rs.178 in such a way that A gets Rs.4 less than C, B gets Rs.15 more than A and C gets Rs.11 less than B. What is the ratio of their shares?

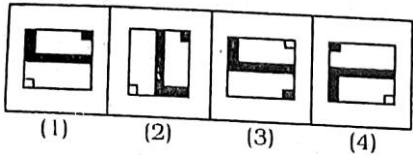
- (1) 57 : 53 : 68 (2) 50 : 51 : 52
(3) 53 : 56 : 68 (4) 53 : 68 : 57

43. Select the correct alternative from the given ones which will complete the figural series.

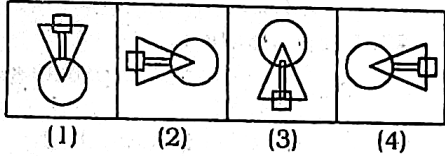
Question figures:



Answer figures:

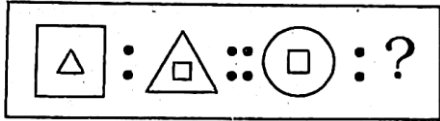


44. Which figure is different from the rest of the three?

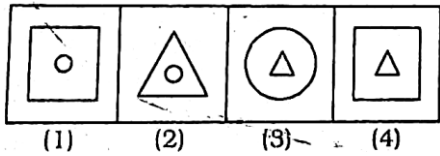


45. Select the related figure from the given alternatives.

Question Figures:



Answer figures:

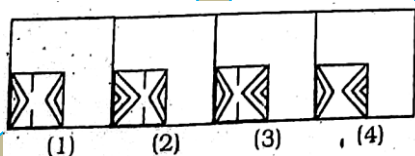


46. Which answer figure will complete the pattern in the question figure?

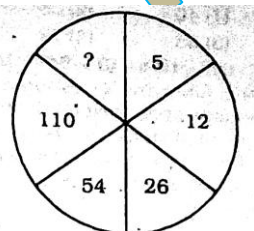
Question Figures:



Answer figures:



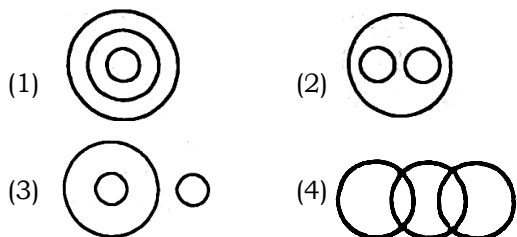
47. Select the missing number from the given responses.



- (1) 122 (2) 222
- (3) 212 (4) 132

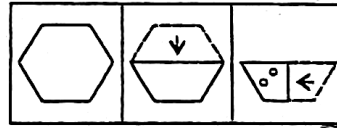
48. Identify the diagram that best represents the relationship among the classes given below:

Liquids, Milk, River water

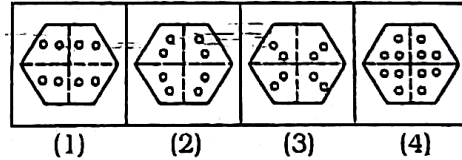


49. A piece of paper is folded and cut/punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.

Question Figures:

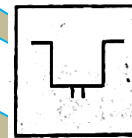


Answer figures:

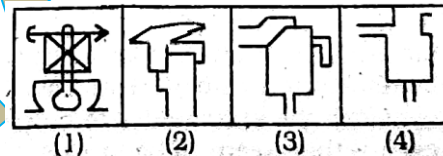


50. From the given answer figures, select the one in which the question figure is hidden / embedded.

Question figure



Answer figures:



**PART-II
ENGLISH LANGUAGE**

Directions (51-55): 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. My father gave me (1) / a pair of binocular (2)/ on my birthday. (3)/ No error. (4)
- 52. Kalidas is (1)/ a Shakespeare (2) / of India. (3) / No error. (4)
- 53. The teacher as well as his students, (1)/ all left (2)/ for the trip. (3)/ No error. (4)
- 54. More you (1)/ think of it (2)/ the worse it becomes. (3)/ No error. (4)
- 55. Hasan plays (1) / both cricket and billiards (2)/ at the national level. (3)/ No error. (4)

Directions (56-60): 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 cut of the four as your answer.

- 56. The deceased left ___ him two young children. (1) for (2) with (3) by (4) behind
- 57. The statue ___ a global symbol of freedom (1) stands to (2) stands for

- (3) stands as (4) stands against
58. A child is the future of a family ___ nation.
 (1) as a (2) like a
 (3) as well as of a (4) just as
59. The human mind seems to have built-in ___ against original thought.
 (1) ideas (2) interests
 (3) safeguards (4) prejudices
60. If strict security measures were taken, the tragedy might have been ____
 (1) averted (2) removed
 (3) controlled (4) restrained

Directions (61-62) : In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word as your answer.

61. **Temerity**
 (1) Verity (2) Audacity
 (3) Simplicity (4) Paucity
62. **Wily**
 (1) Wise (2) Stupid
 (3) Cunning (4) Angry

Directions (63-64): In the following questions, choose the word opposite in meaning to the given word as your answer.

63. **Relinquish**
 (1) Continue (2) Vanish
 (3) Quench (4) Relish
64. **Inspid**
 (1) Colourful (2) Colourless
 (3) Dull (4) Tasty

Directions (65-66) : 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.

65. (1) Rejuvenation (2) Rejvenation
 (3) Rejuenation (4) Rejevanation
66. (1) Dysantery (2) Dy sen try
 (3) Dysentery (4) Dysentary,

Directions (67-69) : 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 as your answer.

67. The manager hesitated to assign the job to the newcomer as he was **wet behind the ears**.
 (1) young and inexperienced
 (2) drenched in the rain
 (3) unpunctual and lethargic
 (4) stupid and slow-witted
68. Mrs. Roy **keeps an open house** on Saturday evening parties - you'll find all kinds of people there.
 (1) keeps the gates open for a few persons
 (2) welcomes all members
 (3) welcomes a select group of people
 (4) keeps the doors of the house open

69. The police **cordoned off** the area after the explosion.
 (1) The police, did not allow anyone to leave the area
 (2) The police filled the whole area
 (3) The police isolated the area
 (4) The police checked everyone in the area

Directions (70-72) : In the , following questions, out of the four alternatives choose the one which can be substituted for the given words/sentence.

70. A short story based on your personal experience
 (1) Legend (2) Anecdote
 (3) Fable (4) Parable
71. A former student of a school, college or university
 (1) Genius (2) Scholar
 (3) Learner (4) Alumnus
72. A building in which aircraft are housed
 (1) Granary (2) Dockyard
 (3) Garage (4) Hangar

Directions (73-74): 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).

73. She is quite well now, **except a slight cold**.
 (1) except for a slight cold
 (2) excepting a slight cold
 (3) excepting have a slight cold
 (4) No improvement
74. The commoners joined the king's army **at** crushing the rebels
 (1) without (2) in
 (3) Into (4) No improvement.

Directions (75-79): In the following questions, a sentence has been given in Active/Passive Voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive /Active Voice.

75. **They will laugh at you.**
 (1) You will have been laughed at by them.
 (2) You can be laughed at by them.
 (3) You may be laughed at by them.
 (4) You will be laughed at by them.
76. **Trespassers shall be prosecuted.**
 (1) The authorities might prosecute trespassers"
 (2) The authorities will prosecute transfers
 (3) The authorities shall prosecute trespassers.
 (4) The authorities may prosecute trespassers.
77. **The waiter filled the glasses with water.**
 (1) The water were filled in the glasses by waiter.
 (2) The glasses filled with water by the waiter.
 (3) The glasses were filled with water by the waiter.
 (4) The waiter was filled the glasses with water.

78. **She took the dog for a walk.**
 (1) The dog took a walk by her.
 (2) The dog was taken for walk by her.
 (3) The dog took her for a walk.
 (4) The dog was took for a walk.
79. **He was driving the car so fast that it skidded on the snowy road.**
 (1) The car has been driven by him so fast that it skidded on the snowy road.
 (2) The car was driven by him so fast that it skidded the snowy road.
 (3) The car was being driven by him so fast that it skidded on the snowy road.
 (4) The car had been driven by him so fast that it skidded on the snowy road.

Directions (80-84): In the following questions, a sentence has been given in Direct/Indirect. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct.

80. **Mrs. Shankar said, "I know what it is to be depressed."**
 (1) Mrs. Shankar said that she was knowing what it was to be depressed.,
 (2) Mrs. Shankar said that she knew what it was to be depressed.
 (3) Mrs. Shankar knows what it is to be depressed.
 (4) Mrs. Shankar is depressed she said.
81. **"Who now," they had asked, "will listen to our troubles and protect us from the crocodiles?"**
 (1) They wanted to know who will listen to their troubles and protect them from the crocodiles.
 (2) They had wanted to know who would listen to their troubles and protect them from the crocodiles.
 (3) They had wanted to know who then would listen to their troubles and protect them from the crocodiles.
 (4) They had wanted to know who will now listen to their troubles and protect them from the crocodiles.
82. **Moti asked Gangu whether the latter was in his senses.**
 (1) "Are you senseless, Gangu?" asked Moti.
 (2) "Hey Gangu, are you in your senses now?" asked Moti
 (3) "Gangu, have you lost your senses" asked Moti.
 (4) "Gangu. are you in your senses?" asked Moti
83. **He said that we are all born to die.**
 (1) He said, "We have all been born to die."
 (2) He exclaimed, "We were all born to die."
 (3) He said, "We were all born to die."
 (4) He said, "We are all born to die."

84. **He said to me, "I grew these carrots myself."**
 (1) He told me that he grew those carrots himself.
 (2) He told me I grew these carrots myself.
 (3) He told me that he grew these carrots himself.
 (4) He told me that he had grown those carrots himself.

Directions (85-90): In the following questions, the 1st and the last sentences/parts of the passage/sentence are numbered 1 and 6. The, rest of the passage/sentence is split into four parts and named P, Q, R and S. These four parts are not given in their proper order. Read the passage/sentence and find out which of the four combinations is correct. Then find the correct answer.

85. **1. Fires in the Steppes or bushes scared humans ear lier.**
 P. Gradually, they learnt to appreciate the power of fire.
 Q. It gave them light and warmth and kept away wild animals.
 R. About 700,000 years ago humans started fire accidentally by lightning.
 S. They could harden the tips of wooden spears and cook meat in it.
6. Soon they learnt to produce fire by striking Flintstone and pyrite with each other or by rubbing lumbars.
 (1) PQSR (2) PQRS (3) QRSP (4) QSPR
86. **1. There are a lot of ways to communicate speaking, singing, clapping, hooting.**
 P. Even animals communicate with one another.
 Q. Only humans can express their thoughts and feelings in words because of our superior brain.
 R. Both humans and animals also communicate through body language
 S. But their ways differ from the humans.
6. Sometimes we don't use words but make gestures (like traffic signs) or simple movements of the hand in order to communicate,
 (1) QPRS (2) PQRS (3) PSQR (4) PRSQ
87. **1. Sherlock Holmes is the**
 P. who is in a state of grace
 Q. is raised to the status.
 R. because in him scientific curiosity
 S. exceptional individual
6. of a heroic passion.
 (1) SRQP (2) SPRQ (3) RPSQ (4) PRQS
88. **1. The goals of our present system**
 P. schooling is to prepare
 Q. students for the examination system
 R. which will take them to the

S. of primary and secondary

6. best technical institutions in the country.

(1) QPRS (2) PRQS (3) PSQR (4) SPQR

89. **1. Egotism is the most common fault of mankind.**

P. However, with time it becomes an exaggerated form of self-display.

Q. It is the product of a perfectly natural desire to display oneself.

R. This is necessary as it impairs the personality and frustrates all efforts at self improvement.

S. Beyond any shadow of doubt, it is a defect that ought to be constantly hunted down, and scotched

6. One should always be on guard not to give into egotism.

(1) PSRQ (2) PQRS (3) QPSR (4) RSPQ

90. **1. When the Impressionists**

P. they made them look like

Q. everyday and often putting

R. people you would see

S. painted pictures of people

6. more emphasis on the scene.

(1) SRQP (2) PRQS (3) SPRQ (4) RQPS

Directions (91-95): In each of the following questions, in the following passage some of the words have been left out. Read the passage carefully and choose the correct- answer to each question out of the four alternatives and fill in the blanks.

One fine morning a (91) man knocked at the doors of the home for the aged run by nuns. He told the nun in charge that as he was (92) to Delhi: he wanted to leave his servant-maid to the (93) of the nuns. He assured the nun of sending some money every month (94) she was an orphan. The nun (95) her saying that she had got an excellent master.

91. (1) bad (2) nice
(3) good (4) gentle

92. (1) shifted (2) changed
(3) transferred (4) moved

93. (1) home (2) custody
(3) protection (4) care

94. (1) and (2) though
(3) if (4) because

95. (1) praised (2) consoled
(3) condoled (4) loved

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

Freedom has assuredly given us a new status and new opportunities. But it also implies that we should discard selfishness, laziness and all narrowness of outlook. Our freedom suggests toil and creation of new values of old ones. We should so

discipline ourselves as to be able to discharge our new responsibilities satisfactorily. If there is any one thing that needs to be stressed more than any other in the new set-up, it is that we should put into action our full capacity, each one of us in productive effort - each one of us in his own sphere, however humble. Work, unceasing work, should now be our watchword. Work is wealth, and service is happiness. Nothing else is. The greatest crime in India today is idleness. If we root out idleness, all our difficulties, including even conflicts, will gradually disappear.

96. Nothing else can give us Joy except

(1) idleness (2) wealth
(3) freedom (4) service

97. Anyone can free himself from the clutches of difficulties, if he

(1) fulfills his responsibilities
(2) discards idleness
(3) discharges his obligations
(4) eliminates narrow outlook

98. What has freedom undeniably offered to the citizens of India?

(1) New outlook (2) New responsibilities
(3) New values (4) New opportunities

99. One thing needs to be stressed more than anything else in this new set-up. It is that people should

(1) discipline themselves suitably
(2) work to their full capacity
(3) substitute old values with new ones
(4) discard narrowness of outlook

100. ___work should be the motto of our citizens.

(1) Incessant (2) Productive
(3) Ingenious (4) Resourceful

**PART-III
QUANTITATIVE APTITUDE**

101. If $2(\cos^2\theta - \sin^2\theta) = 1$ (θ is a positive acute angle), then $\cot\theta$ is equal to

(1) $-\sqrt{3}$ (2) $\frac{1}{\sqrt{3}}$ (3) 1 (4) $\sqrt{3}$

102. The length of the shadow of a vertical tower on level ground increases by 10 meters when the altitude of the sun changes from 45° to 30° . Then the height of the tower is

(1) $5\sqrt{3}$ metre (2) $10(\sqrt{3} + 1)$ metre
(3) $5(\sqrt{3} + 1)$ metre (4) $10\sqrt{3}$ metre

103. If $5 \tan\theta = 4$, then $\frac{5 \sin\theta - 3 \cos\theta}{5 \sin\theta + 2 \cos\theta}$ is equal to

(1) $\frac{2}{3}$ (2) $\frac{1}{4}$ (3) $\frac{1}{6}$ (4) $\frac{1}{3}$

104. If $x \sin\theta - y \sin\theta = \sqrt{x^2 + y^2}$ and

$\frac{\cos^2\theta}{a^2} + \frac{\sin^2\theta}{b^2} = \frac{1}{x^2 + y^2}$ then the correct relation is

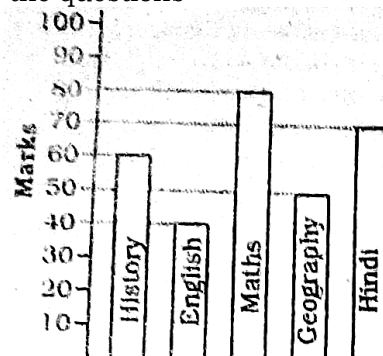
- (1) $\frac{x^2}{b^2} - \frac{y^2}{a^2} = 1$ (2) $\frac{x^2}{a^2} + \frac{y^2}{b^2} = 1$
- (3) $\frac{x^2}{b^2} + \frac{y^2}{a^2} = 1$ (4) $\frac{x^2}{a^2} - \frac{y^2}{b^2} = 1$
105. The sides of a triangle are 16cm, 12 cm and 20 cm. Find the area.
 (1) 64 cm² (2) 112 cm²
 (3) 96 cm² (4) 81 cm²
106. What is the height of a cylinder that has the same volume and radius as a sphere of diameter 12 cm?
 (1) 7 cm (2) 10 cm
 (3) 9 cm (4) 8 cm
107. $2 \operatorname{cosec}^2 23^\circ \cot^2 67^\circ - \sin^2 23^\circ - \sin^2 67^\circ - \cot^2 67^\circ$ is equal to
 (1) 1 (2) $\sec^2 23^\circ$
 (3) $\tan^2 23^\circ$ (4) 0
108. The base of a right pyramid is an equilateral triangle of side $10\sqrt{3}$ cm. If the total surface area of the pyramid is $270\sqrt{3}$ sq. cm, its height is
 (1) $12\sqrt{3}$ cm (2) 10cm
 (3) $10\sqrt{3}$ cm (4) 12 cm
109. The volumes of a cylinder and a cone are in the ratio 3:1. Find their diameters and then compare them when their heights are equal.
 (1) Diameter of cylinder = 2 times of diameter of cone
 (2) Diameter of cylinder = Diameter of cone
 (3) Diameter of cylinder > Diameter of cone
 (4) Diameter of cylinder < Diameter of cone
110. A square of side 3 cm is cut off from each corner of a rectangular sheet of length 24 cm and breadth 18 cm and the remaining sheet is folded to form an open rectangular box. The surface area of the box is
 (1) 468 cm² (2) 396 cm²
 (3) 612 cm² (4) 423 cm²
111. The perpendiculars, drawn from the vertices to the opposite sides of a triangle, meet at the point whose name is
 (1) incentre (2) circumcentre
 (3) centroid (4) orthocentre
112. The volume of air in a room is 204m³. The height of the room is 6 m. What is the floor area of the room?
 (1) 32 m² (2) 46 m²
 (3) 44 m² (4) 34 m²
113. If the total surface area of a cube is 96 cm², its volume is
 (1) 56 cm³ (2) 16 cm³
 (3) 64 cm³ (4) 36 cm³
114. From a point P. two tangents PA and PB are drawn to a circle with centre O. If OP is equal to diameter of the circle, then $\angle APB$ is
 (1) 45° (2) 90° (3) 30° (4) 60°
115. A chord 12 cm long is drawn in a circle of diameter 20cm. The distance of the chord from the centre is
 (1) 8 cm (2) 6 cm
 (3) 10 cm (4) 16 cm
116. 360 sq. cm and 250 sq. cm are the areas of two similar triangles. If the length of one of the sides of the first triangle be 8 cm, then the length of the corresponding side of the second triangle is
 (1) $6\frac{1}{5}$ cm (2) $6\frac{1}{3}$ cm (3) $6\frac{2}{3}$ cm (4) 6 cm
117. If in $\triangle ABC$, $\angle ABC = 5 \angle ACB$ and $\angle BAC = 3 \angle ACB$, the $\angle ABC = ?$
 (1) 130° (2) 80° (3) 100° (4) 120°
118. Let $a = \sqrt{6} - \sqrt{5}$, $b = \sqrt{5} - 2$, $c = 2 - \sqrt{3}$. Then point out the correct alternative among the four alternatives given below.
 (1) $b < a < c$ (2) $a < c < b$
 (3) $b < c < a$ (4) $a < b < c$
119. If $a = \frac{b^2}{b-a}$ then the value of $a^3 + b^3$ is
 (1) 6ab (2) 0 (3) 1 (4) 2
120. If $xy + yz + zx = 0$, then $\left(\frac{1}{x^2 - yz} + \frac{1}{y^2 - zx} + \frac{1}{z^2 - xy} \right)$ ($x, y, z \neq 0$) is equal to
 (1) 3 (2) 1 (3) $x + y + z$ (4) 0
121. A can do a work in 20 days and B can do the same work in 30 days. In how many days can A and B together do the work?
 (1) 16 (2) 10 (3) 12 (4) 15
122. Number of solutions of the two equations $4x - y = 2$ and $2y - 8x + 4 = 0$ is
 (1) zero (2) one
 (3) two (4) infinitely many
123. If $a^2 + b^2 + c^2 = 2(a - b - c) - 3$, then the value of $2a - 3b + 4c$ is
 (1) 7 (2) 2 (3) 3 (4) 1
124. If books bought at prices from Rs.150 to Rs.300 are sold at prices ranging from Rs.250 to Rs.350, what is the greatest possible profit that might be made in selling 15 books?
 (1) Cannot be determined (2) Rs.750
 (3) Rs.4,250 (4) Rs.3,000
125. A train is moving at a speed of 80km/h and covers a certain distance in 4.5 hours. The speed of the train to cover the same distance in 4 hours in
 (1) 100km/h (2) 70 km/h
 (3) 85 km/h (4) 90 km/h

126. A shopkeeper blends two varieties of tea costing Rs.18 and Rs.13 per 100gm. In the ratio 7 : 3. He sells the blended variety at the rate of Rs. 18.15 per 100 gm. His percentage gain in the transaction is
 (1) 10% (2) 12% (3) 14% (4) 8%
127. A invests Rs.64, 000 in a business. After few months B joined him with Rs.48, 000. At the end of year, the total profit was divided between them in the ratio 2 : 1. After how many months did B join?
 (1) 8 (2) 4 (3) 6 (4) 7
128. A got 30% concession on the label price of an article sold for Rs.8,750 with 25% profit on the price he bought. The label price was
 (1) Rs.13,000 (2) Rs.16,000
 (3) Rs.12,000 (4) Rs.10,000
129. The cost price of a book is Rs.150. At what price should it be sold to gain 20%?
 (1) Rs.120 (2) Rs.180 (3) Rs.100 (4) Rs.80
130. The value of $\sqrt{40 + \sqrt{9\sqrt{81}}}$ is
 (1) $\sqrt{111}$ (2) 9 (3) 7 (4) 11
131. The ratio of age of two boys is 5 : 6. After two years the ratio will be 7 : 8. The ratio of their ages after 12 years will be
 (1) $\frac{22}{24}$ (2) $\frac{15}{16}$ (3) $\frac{17}{18}$ (4) $\frac{11}{12}$
132. Divide 50 into two parts so that the sum of their reciprocals is $\frac{1}{12}$.
 (1) 35, 15 (2) 20, 30
 (3) 24, 36 (4) 28, 22
133. The length and breadth of a rectangle are doubled. Percentage increase in area is
 (1) 150% (2) 200% (3) 300% (4) 400%
134. In the annual examination. Mahuya got 10% less marks than Supriyo in Mathematics. Mahuya got 81 marks. The marks of Supriyo are
 (1) 90 (2) 87 (3) 88 (4) 89
135. A sum becomes Rs. 2,916 in 2 years at 8% per annum compound interest. The simple interest at 9% per annum for 3 years on the same amount will be
 (1) Rs.600 (2) Rs.675 (3) Rs. 650 (4) Rs. 625
136. The average of 30 numbers is 40 and that of other 40 numbers is 30. The average of all the numbers is
 (1) $34\frac{2}{7}$ (2) 35 (3) 34 (4) 34.5
137. If a number is as much greater than 31 as it is less than 75, then the number is
 (1) 106 (2) 44 (3) 74 (4) 53
138. L.C.M. $\frac{2}{3}, \frac{4}{9}, \frac{5}{6}$
 (1) $\frac{8}{27}$ (2) $\frac{20}{3}$ (3) $\frac{10}{3}$ (4) $\frac{20}{27}$
139. Find the value of $3 + \frac{1}{\sqrt{3}} + \frac{1}{\sqrt{3}+3} + \frac{1}{\sqrt{3}-3}$

(1) 3 (2) $\frac{3}{2(\sqrt{3}+3)}$ (3) $2\sqrt{3}$ (4) 6

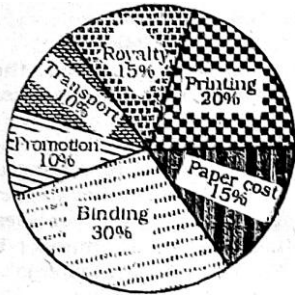
140. 'a' divides 228 leaving a remainder 18. The biggest two digit value of 'a' is
 (1) 70 (2) 21 (3) 35 (4) 30
141. If the sum of the digits of any integer lying between, 100 and 1000 is subtracted from the number, the result always is
 (1) divisible by 6 (2) divisible by 2
 (3) divisible by 9 (4) divisible by 5
142. The equation $\cos^2 \theta = \frac{x+y^2}{4xy}$ is only possible when
 (1) $x = -y$ (2) $x > y$ (3) $x = y$ (4) $x < y$
143. Which is greater $\sqrt[3]{2}$ or $\sqrt{3}$?
 (1) Cannot be compared (2) $\sqrt[3]{2}$
 (3) $\sqrt{3}$ (4) Equal
144. If $a + b + c = 9$ (where a, b, c are real numbers), then the minimum value of $a^2 + b^2 + c^2$ is
 (1) 100 (2) 9 (3) 27 (4) 81
145. In a two-digit number, the digit at the unit's place is 1 less than twice the digit at the ten's place. If the digits at unit's and ten's place are interchanged, the difference between the new and the original number is less than the original number by 20. The original number is
 (1) 59 (2) 23 (3) 35 (4) 47
146. The base of right prism is a triangle whose perimeter is 28 cm and the inradius of the triangle is 4 cm. If the volume of the prism is 366 cc, then its height is
 (1) 6 cm (2) 8 cm
 (3) 4 cm (4) None of these

Direction (147-148): The bar graph shows the marks obtained by a student in an examination out of 100 marks in each subject. Study the diagram and answer the questions



147. The ratio of the marks of Maths and History is
 (1) 6 : 5 (2) 8 : 5 (3) 3 : 4 (4) 4 : 3
148. The average marks of Hindi and English is
 (1) 65 (2) 50 (3) 55 (4) 60

Directions (149-150): Various expenditures incurred by publishing company for publishing a book in '2011 are given below. Study the chart and answer the questions.



149. Price of a book is 20% above cost price. If the marked price is Rs.180, then the cost of paper for a single copy, in Rs. is
 (1) 44.25 (2) 36 (3) 22.50 (4) 42
150. Royalty of a book is less than the printing cost by
 (1) 25% (2) 5% (3) $33\frac{1}{3}\%$ (4) 20%

PART-I
GENERAL AWARENESS

151. The concept of Concurrent List in Indian Constitution is borrowed from the Constitution of
 (1) Japan (2) Canada
 (3) Australia (4) U.S.A.
152. The basic object of all production is to
 (1) satisfy human wants
 (2) provide employment
 (3) make profits
 (4) Increase physical output
153. Inflation is caused by
 (1) Increase in money supply and decrease in production
 (2) Increase in money supply
 (3) Increase in production
 (4) decrease in production
154. Dumping is a form of price discrimination at
 (1) within industry (2) national level
 (3) International level (4) local level
155. The equilibrium of a firm under perfect competition will be determined when
 (1) Marginal Revenue > Average Cost
 (2) Marginal Revenue > Average Revenue
 (3) Marginal Revenue = Marginal Cost
 (4) Marginal Cost > Average Cost
156. Expenditure on advertisement and public relations by an enterprise is a part of its
 (1) consumption of fixed capital
 (2) final consumption expenditure
 (3) Intermediate consumption
 (4) fixed capital
157. Presidential form of government consists of the following:
 (1) Fixed term of office
 (2) No overlap in membership between the executive and the legislature
 (3) Popular election of President
 (4) All of the above
158. Which one of the following inscriptions relate to the Chalukya king, Pulakesin-II?
 (1) Maski (2) Hathigumpha
 (3) Aihole (4) Nusik
159. Who among the following introduced the Mansabdari system?

- (1) Shah Jahan (2) Sher Shah
 (3) Akbar (4) Jahangir
160. How many members can be nominated to both the Houses of the Parliament by the President?
 (1) 16 (2) 10 (3) 12 (4) 14
161. Under which Article of the Constitution can an individual move to the Supreme Court directly in case of any violation of Fundamental Rights?
 (1) Article 32 (2) Article 28
 (3) Article 29 (4) Article 31
162. The Dandi March of Gandhi is an example of
 (1) Direct Action (2) Boycott
 (3) Civil Disobedience (4) Non-Cooperation
163. Which one of the following is a warm ocean current?
 (1) Kurile (2) Canary
 (3) Labrador (4) Gulf Stream
164. Which one of the following cities and the personalities associated with their establishment is wrongly matched?
 (1) Pondicherry - Francis Martin
 (2) Ahmedabad - Ahmad Shah I
 (3) Madras - Francis Day
 (4) Calcutta - Robert Clive
165. Which one of the following wars decided the fate of the French in India?
 (1) Battle of Wandiwash (2) First Carnatic War
 (3) Battle of Buxar (4) Battle of Plassey
166. The Crimean War came to an end by the
 (1) Treaty of Trianon (2) Treaty of Versailles
 (3) Treaty of Paris (4) Treaty of St. Germain
167. The longest river of peninsular India is
 (1) Krishna (2) Kaveri
 (3) Narmada (4) Godavari
168. Moraines are formed in
 (1) River deltas (2) Arid regions
 (3) Glacial regions (4) Monsoon region
169. The Himalayan mountain range is an example of
 (1) Volcanic mountain (2) Residual mountain
 (3) Block mountain (4) Fold mountain
170. A cellulose wall is found in the cells of
 (1) animals (2) bacteria
 (3) fungi (4) plants
171. The filtration unit of kidney is
 (1) axon (2) nephron
 (3) neuron (4) yellow fiber
172. The nutritive tissue in the seeds of higher plants is known as
 (1) hypocotyl (2) embryo
 (3) endosperm (4) nucellus
173. Yeast is an important source of
 (1) vitamin B (2) invertase
 (3) vitamin C (4) protein'
174. Match correctly the following deserts and their location by choosing the correct response:
- | Desert | Location |
|-------------------|------------------|
| a. Kalahari | 1. South America |
| b. Atacama | 2. Australia |
| c. Thar | 3. Africa |
| d. Great Victoria | 4. Asia |
- (1) a-2, b-3, c-1, d-4 (2) a-4, b-3, c-2, d-1
 (3) a-3, b-2, c-1, d-4 (4) a-3, b-1, c-4, d-2

175. What is a neutron?
 (1) Basic unit of energy
 (2) Particle released during radioactivity
 (3) The anti-particle of neutron
 (4) Basic unit of nervous system
176. Which of the following is not caused by atmospheric refraction of light?
 (1) Sun appearing red at sunset
 (2) Twinkling of stars at night
 (3) Sun appearing higher in the sky than it actually is
 (4) Sun becoming visible two or three minutes before actual sunrise
177. Match correctly the infectious agents given in List I with the diseases caused by them given in List II :
- | List-I | List-II |
|------------------------|------------------------|
| a. Bacterium | 1. Kala-azar |
| b. Fungus | 2. Tuberculosis- |
| c. Protozoan | 3. Influenza |
| d. Virus | 4. Ringworm |
| (1) a-1, b-2, c-4, d-3 | (2) a-2, b-4, c-1, d-3 |
| (3) a-3, b-1, c-2, d-4 | (4) a-4, b-2, c-3, d-1 |
178. Matter waves are
 (1) de Broglie waves
 (2) Electromagnetic waves
 (3) Transverse waves
 (4) Longitudinal waves
179. When the milk is churned vigorously the cream from it is separated out due to
 (1) Centripetal force (2) Gravitational force
 (3) Frictional force (4) Centrifugal force
180. Gas thermometers are more sensitive than the liquid thermometers because the gases
 (1) have large coefficient of expansion
 (2) are lighter
 (3) have low specific heat
 (4) have high, specific heat
181. Enzymes are
 (1) Steroids (2) Carbohydrates
 (3) Proteins (4) Lipids
182. Heating of a ore below its melting point in the absence of air is known as
 (1) Refining (2) Calcination
 (3) Roasting (4) Smelting
183. The most electronegative element among the following is
 (1) Fluorine (2) Sodium
 (3) Chlorine (4) Oxygen
184. Mark the compound which possesses ionic, covalent and co-ordinate bonds.
 (1) NH_4Cl (2) SO_3 (3) SO_2 (4) H_2O
185. The depletion of Ozone layer is mainly due to
 (1) Volcanic eruptions (2) Aviation fuels
 (3) Radioactive rays (4) Chlorofluorocarbons
186. A nibble is equal to _____ bits
 (1) 32 (2) 4 (3) 8 (4) 16
187. In HTML, tags consists of keywords enclosed within
 (1) angular brackets < > (2) parentheses ()
 (3) square brackets [] (4) flower brackets {}
188. _____ printer cannot print more than one character at a time.
 (1) Daisy-wheel (2) Laser
 (3) Dot-matrix (4) Line
189. "Sattriya Nritya" recognised as a classical dance form of India by the Sangeet Natak Akademi only in 2000, originated from
 (1) Assam (2) Karnataka
 (3) Gujarat (4) Tripura
190. Given below are pairs of the winners and the specific categories pertaining to the 14th International Indian Film Academy (IIFA) Awards. Which one of the pairs is wrongly matched?
 (1) Best Actor in a negative role - Rishi Kapoor
 (2) Best Actor - Ranbir Kapoor
 (3) Best Female Actor - Vidya Balan
 (4) Best Film - Agneepath
191. The main advantage of Rain?Water Harvesting (RWH) is
 (1) Recharge ground water (2) Avoid floods
 (3) Reduce the loss of water
 (4) Avoid soil erosion
192. The waste generated by end life personal computers is known as
 (1) PC-waste (2) Physical waste
 (3) Computer waste (4) E-waste
193. Who was the first posthumous recipient of Bharat Ratna?
 (1) B. R. Ambedkar (2) K. Kamraj
 (3) Lal Bahadur Shastri
 (4) M.G. Ramachandran
194. Which country won the ICC Women's World Cup held in February 2013?
 (1) New Zealand (2) England
 (3) Australia (4) India
195. Which country's currency is Ngultrum?
 (1) Laos (2) Bangladesh
 (3) Nepal (4) Bhutan
198. Match the two lists given below :
- | List-I | List-II |
|------------------------|------------------------|
| a. London | 1. St. Peter's Square |
| b. Vatican City | 2. Times Square |
| c. Moscow | 3. Trafalgar Square |
| d. New York | 4. Red Square |
| (1) a-2, b-4, c-3, d-1 | (2) a-3, b-1, c-4, d-2 |
| (3) a-4, b-2, c-1, d-3 | (4) a-1, b-3, c-2, d-4 |
197. Who among the following women tennis players has won the Grand Slam titles for the maximum number of times?
 (1) Venus Williams (2) Steffi Graf
 (3) Margaret Court (4) Serena Williams
198. In which one of the following films did Fran act as a character artist and not in the role of a villain?
 (1) Ram aur Shy am (2) Zanjeer
 (3) Madhumati (4) Himalaya Ki Godh Mein
199. Minorities Rights Day is observed in India on
 (1) 23rd December (2) 5th September
 (3) 1st December (4) 18th December
200. Which one of the following institutes in List I is wrongly matched with its location indicated in List II?
- | List-I | List-II |
|---|----------------|
| (1) Central Building Research Institute | Roorkee |
| (2) Central Arid Zone Research Institute | Jodhpur |
| (3) Central Drug Research Institute | Kanpur |
| (4) Central Institute of Mining and Fuel Research | Dhanbad |

MODEL PAPER-VI ANSWER SHEET							
1	4	51	2	101	4	151	3
2	3	52	2	102	3	152	1
3	1	53	2	103	3	153	1
4	4	54	1	104	*	154	3
5	2	55	4	105	3	155	3
6	1	56	4	106	4	156	3
7	4	57	3	107	2	157	4
8	3	58	3	108	4	158	3
9	1	59	4	109	2	159	3
10	4	60	1	110	2	160	4
11	1	61	2	111	4	161	1
12	4	62	3	112	4	162	1
13	1	63	1	113	3	163	4
14	3	64	4	114	4	164	4
15	2	65	1	115	1	165	1
16	4	66	3	116	3	166	3
17	1	67	1	117	3	167	4
18	4	68	2	118	4	168	3
19	3	69	3	119	2	169	4
20	1	70	2	120	4	170	4
21	3	71	4	121	3	171	2
22	1	72	4	122	4	172	3
23	1	73	1	123	4	173	1
24	3	74	2	124	4	174	4
25	4	75	4	125	4	175	4
26	3	76	3	126	1	176	3
27	1	77	3	127	2	177	2
28	4	78	2	128	4	178	1
29	1	79	3	129	2	179	4
30	4	80	2	130	3	180	1
31	2	81	3	131	3	181	3
32	2	82	4	132	2	182	2
33	2	83	4	133	3	183	1
34	1	84	4	134	1	184	1
35	1	85	1	135	2	185	4
36	3	86	3	136	1	186	2
37	4	87	2	137	4	187	1
38	3	88	4	138	2	188	1
39	2	89	3	139	1	189	1
40	2	90	3	140	1	190	4
41	1	91	4	141	3	191	3
42	4	92	3	142	3	192	4
43	3	93	4	143	3	193	3
44	3	94	4	144	3	194	3
45	1	95	1	145	4	195	4
46	3	96	4	146	4	196	2
47	2	97	2	147	4	197	2
48	2	98	4	148	3	198	2
49	3	99	2	149	3	199	4
50	1	100	2	150	1	200	3

MODEL PAPER-VI ANSWER SHEET							
1	4	51	2	101	4	151	3
2	3	52	2	102	3	152	1
3	1	53	2	103	3	153	1
4	4	54	1	104	*	154	3
5	2	55	4	105	3	155	3
6	1	56	4	106	4	156	3
7	4	57	3	107	2	157	4
8	3	58	3	108	4	158	3
9	1	59	4	109	2	159	3
10	4	60	1	110	2	160	4
11	1	61	2	111	4	161	1
12	4	62	3	112	4	162	1
13	1	63	1	113	3	163	4
14	3	64	4	114	4	164	4
15	2	65	1	115	1	165	1
16	4	66	3	116	3	166	3
17	1	67	1	117	3	167	4
18	4	68	2	118	4	168	3
19	3	69	3	119	2	169	4
20	1	70	2	120	4	170	4
21	3	71	4	121	3	171	2
22	1	72	4	122	4	172	3
23	1	73	1	123	4	173	1
24	3	74	2	124	4	174	4
25	4	75	4	125	4	175	4
26	3	76	3	126	1	176	3
27	1	77	3	127	2	177	2
28	4	78	2	128	4	178	1
29	1	79	3	129	2	179	4
30	4	80	2	130	3	180	1
31	2	81	3	131	3	181	3
32	2	82	4	132	2	182	2
33	2	83	4	133	3	183	1
34	1	84	4	134	1	184	1
35	1	85	1	135	2	185	4
36	3	86	3	136	1	186	2
37	4	87	2	137	4	187	1
38	3	88	4	138	2	188	1
39	2	89	3	139	1	189	1
40	2	90	3	140	1	190	4
41	1	91	4	141	3	191	3
42	4	92	3	142	3	192	4
43	3	93	4	143	3	193	3
44	3	94	4	144	3	194	3
45	1	95	1	145	4	195	4
46	3	96	4	146	4	196	2
47	2	97	2	147	4	197	2
48	2	98	4	148	3	198	2
49	3	99	2	149	3	199	4
50	1	100	2	150	1	200	3

MODEL PAPER-VI ANSWER SHEET							
1	4	51	2	101	4	151	3
2	3	52	2	102	3	152	1
3	1	53	2	103	3	153	1
4	4	54	1	104	*	154	3
5	2	55	4	105	3	155	3
6	1	56	4	106	4	156	3
7	4	57	3	107	2	157	4
8	3	58	3	108	4	158	3
9	1	59	4	109	2	159	3
10	4	60	1	110	2	160	4
11	1	61	2	111	4	161	1
12	4	62	3	112	4	162	1
13	1	63	1	113	3	163	4
14	3	64	4	114	4	164	4
15	2	65	1	115	1	165	1
16	4	66	3	116	3	166	3
17	1	67	1	117	3	167	4
18	4	68	2	118	4	168	3
19	3	69	3	119	2	169	4
20	1	70	2	120	4	170	4
21	3	71	4	121	3	171	2
22	1	72	4	122	4	172	3
23	1	73	1	123	4	173	1
24	3	74	2	124	4	174	4
25	4	75	4	125	4	175	4
26	3	76	3	126	1	176	3
27	1	77	3	127	2	177	2
28	4	78	2	128	4	178	1
29	1	79	3	129	2	179	4
30	4	80	2	130	3	180	1
31	2	81	3	131	3	181	3
32	2	82	4	132	2	182	2
33	2	83	4	133	3	183	1
34	1	84	4	134	1	184	1
35	1	85	1	135	2	185	4
36	3	86	3	136	1	186	2
37	4	87	2	137	4	187	1
38	3	88	4	138	2	188	1
39	2	89	3	139	1	189	1
40	2	90	3	140	1	190	4
41	1	91	4	141	3	191	3
42	4	92	3	142	3	192	4
43	3	93	4	143	3	193	3
44	3	94	4	144	3	194	3
45	1	95	1	145	4	195	4
46	3	96	4	146	4	196	2
47	2	97	2	147	4	197	2
48	2	98	4	148	3	198	2
49	3	99	2	149	3	199	4
50	1	100	2	150	1	200	3