

SRI KRISHNAVENI COACHING CENTRE

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Time: 2hr

EXAM: SSC (CHSL)

MODEL PAPER - 3

Max: Mar: 200

PART-I GENERAL INTELLIGENCE

Directions (1 - 7) : Select the related word / letter / number from the given alternatives.

- ABDE : PQST :: MNPQ : ?
(1) EFHI (2) UVXZ
(3) IJLN (4) TVWX
- ELIMS : SMILE :: KRAPS : ?
(1) KRAPS (2) SPARK
(3) PARKS (4) KARPS
- 64 : 100 :: 16 : ?
(1) 25 (2) 36 (3) 50 (4) 55
- 167 : 14 :: 143 : ?
(1) 7 (2) 8 (3) 6 (4) 5
- Mathematics : Numbers :: History : ?
(1) People (2) Events
(3) Dates (4) Wars
- Ancient: Modern :: Often ?
(1) Always (2) Never
(3) Seldom (4) Regular
- Jaundice : Liver :: ?
(1) Dialysis : Kidney (2) Rash : Skin
(3) Imagination : Brain (4) Valentine : Heart

Directions (8-11): Find the odd word / letters / number pair from the given alternatives.

- (1) Reward (2) Praise
(3) Encourage (4) Punishment
- (1) Taste buds : Tongue (2) Retina: Eye
(3) Follicle : Hair (4) Balance : Ear
- (1) FHJL (2) DGIK (3) KMOQ (4) SUWY
- (1) 66 - 56 (2) 101 - 90 (3) 41 - 30 (4) 33 - 22
- Find out the set among the four sets which is like the given set. (30, 18, 6)
(1) (30, 21, 18) (2) (50, 38, 26)
(3) (40, 24, 12) (4) (50, 36, 24)
- Arrange the following according to the stages in the life cycle of a butterfly :
1. Butterfly 2. Caterpillar
3. Eggs 4. Cocoon
(1) 1, 2, 3, 4 (2) 3, 2, 4, 1
(3) 3, 4, 2, 1 (4) 1, 4, 2, 3
- Arrange the following words as per order in the dictionary :
1. Slide 2. Slice 3. Slick 4. Sild
(1) 4, 3, 2, 1 (2) 4, 2, 3, 1
(3) 2, 4, 1, 3 (4) 2, 3, 1, 4
- Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?
_ _ _ dbc _ _ d _ _ ca _ _ bcad _ _ c _ _ db _ _
(1) a, a, b, d, b, a, c (2) b, b, d, c, a, a, d
(3) c, c, b, b, a, d, c (4) a, c, a, d, d, b, c

- Jamal was born on February 29, 1988. How many birthdays will be celebrated up to 29.02.2004?
(1) 4 (2) 5 (3) 8 (4) 16
- Ram is elder than Shyam, Lakshman is elder than Shyam, but younger than Ram. Hanuman is younger than both Hari and Shyam. Shyam is elder than Hari. Who is the youngest?
(1) Ram (2) Lakshman
(3) Hanuman (4) Hari
- Raju and his grandfather have an age difference of 65 years at present. After 10 years the sum of their age is 95 years. What is the present age of Raju and his grandfather?
(1) 15 & 80 (2) 10 & 65
(3) 5 & 70 (4) 5 & 65

Directions (19-21): In the following questions, a series is given with one term missing. Choose the correct alternative from the given ones that will complete the series.

- CAE, HFJ, MKO, RPT, ?
(1) WUY (2) UTY (3) VUZ (4) WUZ
- 12, 26, 54, 110, ?
(1) 223 (2) 222 (3) 220 (4) 225
- 2, 3, 10, 15, ?
(1) 25 (2) 26 (3) 24 (4) 30
- If A = 1, BAD = 7, then HAT = ?
(1) 8 (2) 10 (3) 19 (4) 29
- If FAITH is coded as 82731, HABIT is coded as 12573 and HEALTH is coded as 192431, how can BELIEF be coded as?
(1) 594598 (2) 594789
(3) 594978 (4) 594798
- If NATIONAL can be written as LNAANTOI, how can DOMESTIC be written?
(1) CDIOMTES (2) CDIOTMSE
(3) CTSIMODE (4) CSITEMOD
- In a class, Karthik's rank is 17th from the top and 28th from the bottom. How many students are there in the class?
(1) 45 (2) 41 (3) 40 (4) 44
- Vikash said, "That boy is the grandson of my mother's husband I have no brother and sister." How is the boy related to Vikash?
(1) Uncle (2) Son (3) Nephew (4) Cousin
- In given letter series how many times 'L' occurs, which is in between TY?
BTLYDETLFTLYTLYZGHTLILYTLY
(1) 3 (2) 5 (3) 4 (4) 6
- Out of 1865 people, 660 can speak English and 1305 can speak Marathi. But, 120

persons can't speak either language. Then how many can speak both languages?

- (1) 220 (2) 440 (3) 120 (4) 1085

29. 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

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- (1) B J Q W U E (2) B J U W Q E
(3) B J W U Q E (4) B J E W U Q

30. From the given alternatives, select the word which can be formed using the letters given in the word.

ABOMINABLE

- (1) BOWEL (2) METAL
(3) BLAND (4) BANAL

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

BANGALORE

- (1) GARBAGE (2) ORANGE
(3) LARGE (4) BANGLE

- Directions (32-33):** In the following questions, select the missing number from the given response.

32.

11	20	35
4	3	2
5	3	2
49	63	?

- (1) 39 (2) 72 (3) 112 (4) 100

33.

4	20	5
5	?	6
9	45	5

- (1) 25 (2) 30 (3) 15 (4) 21

- Directions (34-35):** In the following questions some equations are solved on the basis of a certain system. Find the correct answer for the unsolved equation on that basis.

34. If $228 = 12$ and $337 = 16$, then $569 = ?$

- (1) 42 (2) 39 (3) 36 (4) 26

35. $6 \times 4 \times 5 = 456$, $3 \times 2 \times 8 = 283$, $4 \times 9 \times 3 = ?$

- (1) 349 (2) 934 (3) 394 (4) 493

36. Manoranjan walks 10 km towards South of point 'P', turns to his right and walks 4 km. Turn to his right and walks 10km and then he turns to his left and covers a distance of 5km. How far is he from the point 'P'?

- (1) 1km (2) 9 km (3) 14 km (4) 20 km

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

$7 * 2 * 3 * 5 * 6$

- (1) $- + = \times$ (2) $+ \times = +$

(3) $= \times + -$ (4) $\times = + +$

38. If 'x' means '+', '+' means '-', '-' means 'x' and 'x' means '-' then

$6 \times 4 - 5 + 2 \div 1 = ?$

- (1) 10 (2) 11 (3) 12 (4) 15

39. Raju is facing North. He goes 35 meters ahead, turns left and walk 20 metres. He turns right and covers 25 metres, then turns right to cover 30 metres, In which direction is he heading?

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

- Directions (40-41):** In each of the following questions, some statements are given followed by two conclusions/inferences 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 are to decide which of the given conclusions, if any, follow from the given statements. Indicate your answer.

40. **Statements :**

All chillies are garlics.
Some garlics are onions.
All onions are potatoes.
No potato is ginger.

Conclusions:

- I. Some chillies are potatoes.
II. No onion is ginger.

- (1) Only conclusion I follows
(2) Only conclusion II follows
(3) Both the conclusions I and II follow
(4) None of the conclusions I or II follows

41. **Statements :**

All huts are painted blue.
Some blue buildings are Bungalows.

Inferences :

- I. All Bungalows are blue.
II. Some blue buildings are not Huts.

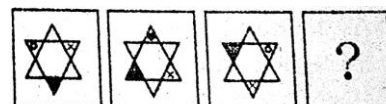
- (1) Only inference I follows
(2) Only inference II follows
(3) Both inferences I and II follow
(4) Neither of the two inferences follows

42. At a restaurant, five guests are sitting in a row. Neeta is to the left of Manju and to the right of Navin. Rishab is to the right of Kavita, but to the left of Navin. Where is Navin sitting?

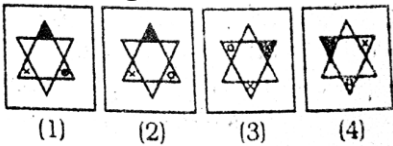
- (1) Extreme right (2) Centre
(3) Extreme left
(4) Second from the right

43. Choose the correct alternative from the given ones that, will complete the series.

Question Figures

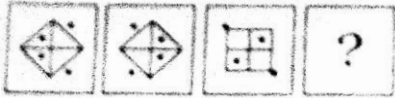


Answer figures

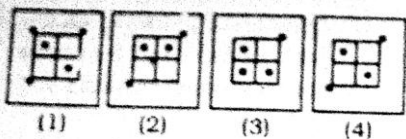


44. Select the related figure from the given alternatives.

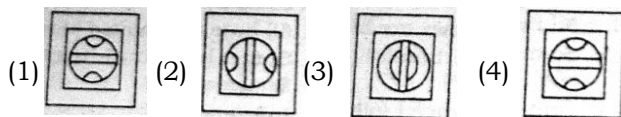
Question Figures



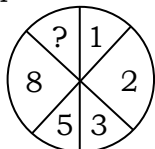
Answer figures



45. Select the figure which is different from the rest three?



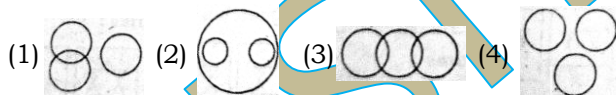
46. Select the missing numbers from the given responses.



- (1) 10 (2) 12
(3) 13 (4) 15

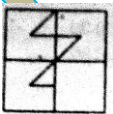
47. Identify the diagram that best represents the relationship among classes given below:

Doctor, patient, human being

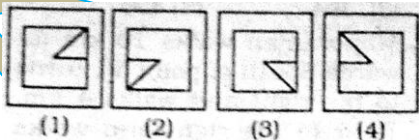


48. Which answer figure will complete the pattern in the question figure?

Question figure

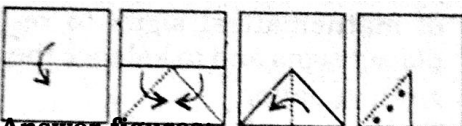


Answer figures:

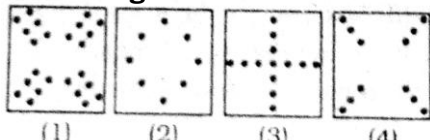


49. A piece of paper is folded and cut punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened?

Question Figures :

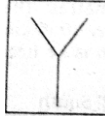


Answer figures:

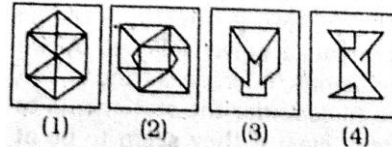


50. From the given answer figures, select the one in which the question figure is hidden / embedded.

Question Figure:



Answer figures:



**PART-II
ENGLISH LANGUAGE**

Directions (51 - 55): In the following questions, 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 sentence and find out which of the four combinations is correct. Then find the correct answer.

51. **1. Science is concerned with finding out how things actually happen.**

P. He showed that a light object falls to the ground at the same rate as a heavy object.

Q. It does not mean laying down principles as to how they ought to happen.

R. This did not agree with the views of most learned men of that lime.

S. The most famous example of this concerns Galileo's discovery about falling bodies,

6. But Galileo proved his point experimentally by dropping weights from the Leaning Tower of Pisa.

- (1) PSQR (2) QSPR (3) RQPS (4) SQPR

52. **1. After inventing dynamite, Alfred Nobel became a rich man.**

P. He created a fund Just two weeks before his death.

Q. Alfred did not want to be remembered as the inventor of dynamite.

R. He apprehended its universally destructive power too late.

S. Prizes are given from this fund to people for their enormous contributions to humanity.

6. Nobel prizes for various disciplines arc awarded each year on the anniversary of his death.

- (1) PQRS (2) RQPS (3) QPSR (4) SPQR

53. **1. The pungent vapour that is released**

P. which make our eyes stream and nose run,

Q. contains irritant chemicals

R. when we chop onions

S. eases congestion as well as

6. flushes out virus particles.

- (1) RQPS (2) QPRS (3) SQPR (4) QRPS

54. **1. Miss Sullivan led Helen into her room and gave her a doll.**
 P. Helen was simply making her fingers go in monkey-like imitation.
 Q. Miss Sullivan tried to make Helen understand that 'd-o-l-l' applied to both.
 R. Miss Sullivan spelled the word 'd-o-l-l' on to Helen's hand.
 S. Miss. Silllivan put her big rag doll into her lap and also spelled 'd-o-l-l'.

6. Her teacher had been with her several weeks before Helen understood that everything has a name.

- (1) SRPQ (2) QPSR (3) RPSQ (4) PSQR

55. **1. Marie chose to study Physics**

P. that investigates the four forces at work

Q. in the universe

R. which is a branch of science

S. both on a large scale, as in the solar system

6. or on a small scale, as in atoms.

- (1) RQPS (2) RPQS (3) PSRQ (4) SPRQ

56. **1. A proposal has been made**

P. tourists will continue to visit game parks

Q. to-trim the horns of rhinos to discourage poachers

R. and the question is whether

S. to see rhinos once the animals' horns

6. have been trimmed.

- (1) RPQS (2) SQPR (3) QRPS (4) PRSQ

Directions (57-61): 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.

Then he spent the next two hours finding different ways to (57) me: whining, burying his wet head in my lap, pawing at my legs, (58) to my every look or movement. Every time, I (59) up from my work, his deep brown eyes were (60) me and his tail thumped on the floor. So, that night in 1967, Booto, the wild dog from the (61) came into my lonely life.

57. (1) scold (2) thank
 (3) threaten (4) receive
58. (1) reacting (2) catching
 (3) answering (4) jumping
59. (1) woke (2) looked
 (3) shuffled (4) opened
60. (1) with (2) into (3) by (4) on
61. (1) town (2) village
 (3) street (4) forests

Directions (62-66) : 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.

The Bureau of Indian Standards (BIS) does not specify any standards for domestic exhaust fans.

Therefore, none of the models tested carried the ISI mark. CERS tested the exhaust fans for power leakage, insulation resistance, earthing continuity, electrical input and protection against direct current. All of them were found to conform to the safety requirements for commercial or industrial, purpose ventilating fans set by the BIS.

Usually exhaust fans are fitted with an external guard (grill or mesh). Such guards are useful to prevent accidental contact with moving parts of the fan.

The tests revealed that though all the models tested conformed to the safety tests, their air delivery and electricity consumption differed widely and hence, their service value also varied. Consumers should make a conscious decision depending on their need. For small spaces, - an exhaust fan with high service value would be best because such a fan will give you sufficient air delivery with low energy cost. But for bigger spaces perhaps you wouldn't like to compromise with the air delivery of the fan, even if it adds a little more to your energy bill.

62. The installation of exhaust fans with high service value should be

- (1) space oriented (2) bill oriented
 (3) delivery-of-air oriented (4) all of the above

63. 'conform' means

- (1) establish the truth
 (2) to authenticate
 (3) comply with safety requirements
 (4) comply with rules or standards

64. None of the domestic exhaust fans carried the ISI mark because

- (1) CERS and not ISI tested them.
 (2) ISI has no standards for them.
 (3) they pose no danger of power leakage, earthing continuity, electrical input etc.
 (4) they are fitted with guards.

65. The service value of the exhaust fans varied because

- (1) air delivery differed
 (2) electricity consumption differed
 (3) they were not fitted with guards
 (4) both (1) and (2) *

66. The decision of the consumers to buy an exhaust fan would depend on their

- (1) liking (2) desire
 (3) requirement (4) fancy

Directions (67-71): 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 your answer. If a sentence is free from error your answer is (4) i.e. No error.

67. When I fail (1)/ to solve the problem myself (2)/ I unhesitatingly called for his help. (3)/ No error. (4)
68. I and Tina will (1)/ go to the market (2)/ in the evening. (3)/ No error. (4)

69. Krishnakali, an early riser and a nature-lover (1)/ goes to morning walk at Rabindra (2)/ Sarovar lake before dawn. (3)/ No error. (4)
70. As a boy Dhritiman is very obedient (1)/ polite and hardworking (2) / but as a student he is/always inattentive in study. (3)/ No error.(4)
71. There would have been (1)/ a disaster (2)/ and for your prompt action. (3)/. No error. (4)

Directions (72-76): 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.

72. Slow and steady _____ the race.
(1) is winning (2) wins
(3) will win (4) win
73. Night came on and the room _____ dark.
(1) is growing (2) has grown
(3) grew (4) will grow
74. Only patience and fortitude carried him _____ the crisis.
(1) over (2) about
(3) out (4) through
75. Octopuses are mostly shy and _____ harmless to human beings.
(1) generally (2) mainly
(3) completely (4) rarely
76. Come what _____, I shall adhere to my principles.
(1) can (2) may (3) might (4) will

Directions (77-78): In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word as your answer.

77. **Anguished**
(1) sorrowful (2) doubtful
(3) respectful (4) joyful
78. **Pretend**
(1) guess (2) suspect
(3) think (4) feign

Directions (79-80): In the following questions, choose the word opposite in meaning to the given word as your answer.

79. **Agitate**
(1) please (2) disturb
(3) pacify (4) rouse
80. **Indifferent**
(1) restless (2) inattentive
(3) attentive (4) reliable

Directions (81-82): In the following questions, there are four different words Out of which one is correctly spelt. Find the correctly spelt word as your answer.

81. (1) satelite (2) satelitte
(3) satallite (4) satellite
82. (1) wellful (2) wilfull
(3) wilful (4) willfull

Directions (83-85) : In the following questions. Out of the four alternatives choose the one which can be substituted for the given words/sentence.

83. One who lends money at a very high interest
(1) Banker (2) Usurer
(3) Imposter (4) Former
84. Incapable of being approached
(1) Inaccessible (2) Inadmissible
(3) Irresistible (4) Illegal
85. One who takes care of a building
(1) Janitor (2) Manager
(3) Warden (4) Beadle

Directions (86-88): 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.

86. I saw through the trick and was on guard.
(1) anticipated (2) detected
(3) witnessed (4) defeated
87. He is not a good lawyer but he has the gift of the gab.
(1) He can talk very fast.
(2) He can speak very well.
(3) He has a good voice.
(4) He can pretend convincingly.
88. We have to put up with the sorrows of life.
(1) bear patiently
(2) fight against
(3) welcome cheerfully
(4) treat with indifference

Directions (89-90): In each of the following questions, 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).

89. The fronds of the coconut tree make a gentle **musical note** when the wind blows.
(1) music note (2) music sound
(3) musical sound (4) no improvement
90. The President **shook hands with all the persons** on the dais.
(1) shook hands with all.
(2) shook hands with each of the persons
(3) shook hands with everyone
(4) no improvement.

Directions (91-95): 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.

91. **I don't like people telling me what to do.**
(1) I don't like it when people are telling me what to do.
(2) I don't like being told what to do.
(3) Telling me what to do is what I don't like.
(4) I don't like people when they tell me what to do.

92. **Aditya saw Dinesh shopping at the mall.**
 (1) Dinesh is seen shopping at the mall by Aditya
 (2) Dinesh was seen shopping at the mall by Aditya.
 (3) Dinesh was being seen shopping at the mall by Aditya.
 (4) Dinesh is being seen shopping at the mall by Aditya.
93. **He wasn't given the information he needed.**
 (1) Somebody was not given the information he needed.
 (2) The information he needed wasn't given to him.
 (3) He needed the information he wasn't given.
 (4) They didn't give him the information he needed.
94. **Bipin was not told about the meeting.**
 (1) Somebody did not tell Bipin about the meeting.
 (2) There was nobody who could tell Bipin about the meeting.
 (3) Nobody told Bipin about the meeting.
 (4) The meeting was not told about to Bipin.
95. **Have you been shown what to do?**
 (1) Have anybody been shown by you what to do?
 (2) Have anybody been showing you what to do?
 (3) Has you been shown what to do?
 (4) Has anybody shown you what to do?

Directions (96-100): In the following questions, 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.

96. **Israt said to Irfat, "Let's go to Puri for a change."**
 (1) Israt proposed to Irfat to go to Puri for a change.
 (2) Israt suggested to Irfat to go to Puri for a change.
 (3) Israt asked Irfat to go to Puri for a change.
 (4) Israt proposed to Irfat that they should go to Puri for a change.
97. **The poor beggar said, "O God, have mercy on my soul".**
 (1) The poor beggar prayed to God to have mercy on his soul.
 (2) The poor beggar, invoking God, implored him to have mercy on his soul.
 (3) The poor beggar exclaimed that God, have mercy on his soul.
 (4) The poor beggar told God to have mercy on his soul.
98. **He said to her, "Why didn't you put on the brakes?"**
 (1) He asked her why she hadn't put on the brakes.

- (2) He asked her why she didn't put on the brake.
 (3) He asked her that why she hadn't put on the brake.
 (4) He told her that why she hadn't put on the brake.
99. **She said to me, "I took breakfast in the morning."**
 (1) She told me that she took breakfast in the morning.
 (2) She told me that she had taken breakfast in the morning.
 (3) She told me that she has taken breakfast in the morning.
 (4) She said to me that she was taking breakfast in the morning.
100. **John's father reminded him to take his umbrella.**
 (1) John's father said, "Re-member your umbrella John?"
 (2) "Here, is your umbrella John," said his father.
 (3) "Are you going to take your umbrella or not?" said John to his father.
 (4) "Don't forget to take your umbrella. John" said his father.

PART-III
QUANTITATIVE APTITUDE

101. The total number of prime factors in $4^{10} \times 7^3 \times 16^2 \times 11 \times 10^2$ is
 (1) 34 (2) 35 (3) 36 (4) 37
102. Out of the numbers 0.3, 0.03, 0.9, 0.09 the number that is nearest to the value of $\sqrt{0.9}$ is
 (1) 0.3 (2) 0.03 (3) 0.9 (4) 0.09
103. In a division sum, the divisor is 12 times the quotient and 5 times the remainder. If the remainder is 36, then the dividend is
 (1) 2706 (2) 2796 (3) 2736 (4) 2826
104. The value of $3\frac{1}{2} - \left[2\frac{1}{4} \div \left\{ 1\frac{1}{4} - \frac{1}{2} \left(1\frac{1}{2} - \frac{1}{3} - \frac{1}{6} \right) \right\} \right]$ is
 (1) $\frac{1}{2}$ (2) $2\frac{1}{2}$ (3) $3\frac{1}{2}$ (4) $9\frac{1}{2}$
105. If $\left(x - \frac{\sqrt{24}}{\sqrt{75} - \sqrt{50}} \right) (\sqrt{75} + \sqrt{50}) = 1$ then the value of x is
 (1) $\sqrt{5}$ (2) 5 (3) $2\sqrt{5}$ (4) $3\sqrt{5}$
106. Two alloys are both made up of copper and tin. The ratio of copper and tin in the first alloy is 1:3 and in the second alloy is 2 : 5. In what ratio should the two alloys be mixed to obtain a new alloy in which the ratio of tin and copper be 8:3?
 (1) 3 : 5 (2) 4 : 7 (3) 3 : 8 (4) 5 : 11

107. $4\frac{2}{7} - \frac{1}{2} \div \frac{1}{3\frac{1}{2} + 1\frac{1}{7}} \div \frac{1}{2 + \frac{1}{2 + \frac{1}{5 - \frac{1}{5}}}}$ is equal to
 (1) 1 (2) $\frac{1}{2}$ (3) 2 (4) $\frac{1}{3}$
108. The sum of two numbers is 520. If the bigger number is decreased by 4% and the smaller number is increased by 12%, then the numbers obtained are equal. The smaller number is
 (1) 280 (2) 210 (3) 240 (4) 300
109. Arbind spends 75% of his income and saves the rest. His income is increased by 20% and he increases his expenditure by 10%. Then the increase in savings in percentage is
 (1) 55% (2) 52% (3) 50% (4) 48%
110. The average of nine consecutive numbers is n . If the next two numbers are also included the new average will
 (1) increase by 2 (2) remain the same
 (3) increase by 1.5 (4) increase by 1
111. The simple interest on a sum of money is $\frac{1}{16}$ of the sum. If the number of years is numerically equal to the rate percent per annum, then the rate percent per annum is
 (1) $3\frac{1}{3}$ (2) $6\frac{2}{3}$ (3) $2\frac{1}{2}$ (4) $7\frac{1}{2}$
112. If $(a + b) : (b + c) : (c + a) = 6:7:8$ and $[a + b + c] = 14$, then the value of c is
 (1) 6 (2) 7 (3) 8 (4) 14
113. Evaluate $\sqrt{20} + \sqrt{12} + \sqrt[3]{729} - \frac{4}{\sqrt{5} - \sqrt{3}} - \sqrt{81}$
 (1) $\sqrt{2}$ (2) $\sqrt{3}$ (3) 0 (4) $2\sqrt{2}$
114. A mixture contains alcohol and water in the ratio 4 : 3. If 5 litres of water is added to the mixture, the ratio becomes 4 : 5. The quantity of alcohol in the given mixture is
 (1) 3 litres (2) 4 litres
 (3) 15 litres (4) 10 litres
115. A, B and C entered into a business and their investments ratio was 5:4:3. After 4 months B invested Rs. 1,000 more and after 8 months C invested Rs. 2,000 more. At the end of one year the profit ratio was 15 : 14 : 11, then the investment of C at the beginning was
 (1) Rs. 3000 (2) Rs. 6000
 (3) Rs. 4500 (4) Rs. 7500
116. Two trains, each of length 125 metre, are running in parallel tracks in opposite directions. One train is running at a speed 65 km/hour and they cross each other in 6 seconds. The speed of the other train is
 (1) 75 km/hour (2) 85 km/hour
 (3) 95 km/hour (4) 105 km/hour
117. An article was sold at a profit of 12%. If the cost price would be 10% less and selling price would be Rs. 5.75 more, there would be profit of 30%. Then at what price it should be sold to make a profit of 20%?
 (1) Rs. 115 (2) Rs. 120
 (3) Rs. 138 (4) Rs. 215
118. If the cost price of 12 pens is equal to the selling price of 8 pens, the gain percentage is
 (1) 25% (2) $33\frac{1}{3}\%$ (3) 50% (4) $66\frac{2}{3}\%$
119. A mobile phone is listed at Rs. 1,500 and a discount of 10% is offered on the list price. What additional discount must be offered to the customer now to bring the net price to Rs. 1,242?
 (1) 10% (2) 8% (3) 12% (4) 18%
120. If $a + b + c = 15$ and $a^2 + b^2 + c^2 = 83$ then the value of $a^3 + b^3 + c^3 - 3abc$
 (1) 200 (2) 180 (3) 190 (4) 210
121. If the graphs of the equations $3x + 2y = 18$ and $3y - 2x = 1$ intersect at the point (p, q) , then the value of $p + q$ is
 (1) 7 (2) 6 (3) 5 (4) 4
122. If $x = \frac{4\sqrt{15}}{\sqrt{5} + \sqrt{3}}$,
 the value of $\frac{x + \sqrt{20}}{x - \sqrt{20}} + \frac{x + \sqrt{12}}{x - \sqrt{12}}$ is
 (1) 1 (2) 2 (3) $\sqrt{3}$ (4) $\sqrt{5}$
123. If 4 men or 6 women can do a piece of work in 12 days working 7 hours a day: how many days will it take to complete a work twice as large with 10 men and 3 women working together 8 hours a day?
 (1) 6 (2) 7 (3) 8 (4) 10
124. If $x^2 - 3x + 1 = 0$ then the value of $x^5 + \frac{1}{x^5}$ is equal to
 (1) 87 (2) 123 (3) 135 (4) 201
125. If $a - b = 3$ and $a^3 - b^3 = 117$ then $|a + b|$ is equal to
 (1) 3 (2) 5 (3) 7 (4) 9
126. The radii of two concentric circles are 13 cm and 8 cm. AB is a diameter of the bigger circle and BD is a tangent to the smaller circle touching it at D and the bigger circle at E. Point A is joined to D. The length of AD is
 (1) 20 cm (2) 19 cm (3) 18 cm (4) 17 cm
127. The radius of two concentric circles are 17cm and 10cm. A straight line ABCD intersects the larger circle at the point A and D and intersects the smaller circle at the points B and C. If $BC = 12$ cm, then the length of AD (in cm) is :
 (1) 20 (2) 24 (3) 30 (4) 34

128. The exterior angles obtained on producing the base BC of a triangle ABC in both ways are 120° and 105° , then the vertical $\angle A$ of the triangle is of measure
 (1) 36° (2) 40° (3) 45° (4) 55°
129. If AD, BE and CF are medians of $\triangle ABC$, then which one of the following statements is correct?
 (1) $(AD + BE + CF) < AB + BC + CA$
 (2) $AD + BE + CF > AB + BC + CA$
 (3) $AD + BE + CF = AB + BC + CA$
 (4) $AD + BE + CF = \sqrt{2} (AB + BC + CA)$
130. ABC is an isosceles right angled triangle with $\angle B = 90^\circ$. On the sides AC and AB, two equilateral triangles ACD and ABE have been constructed. The ratio of areas of $\triangle ABE$ and $\triangle ACD$ is
 (1) $1 : 3$ (2) $2 : 3$ (3) $1 : 2$ (4) $1 : \sqrt{2}$
131. The volume of a hemi-sphere is equal to the volume of a right-circular cylinder whose radius of the base is equal to the radius of the hemisphere. Then the ratio of the height and the radius of the base of the right-circular cylinder is
 (1) $2 : 3$ (2) $3 : 2$ (3) $1 : 3$ (4) $1 : 2$
132. If the base of a right pyramid is triangle of sides 5 cm, 12 cm, 13 cm and its volume is 330 cm^3 , then its height (in cm) will be
 (1) 33 (2) 32 (3) 11 (4) 22
133. The perimeter of a rhombus is 100 cm and one of its diagonals is 40 cm. Its area (in cm^2) is
 (1) 1200 (2) 1000 (3) 600 (4) 500
134. A kite in the shape of a square with a diagonal 32 cm attached to an equilateral triangle of the base 8 cm approximately how much paper has been used to make it? (use $\sqrt{3} = 1.732$)
 (1) 539.712 cm^2 (2) 538.721 cm^2
 (3) 540.712 cm^2 (4) 539.217 cm^2
135. The radius of cross-section of a solid cylindrical rod of iron is 50 cm. The cylinder is melted down and formed into 6 solid spherical balls of the same radius as that of the cylinder. The length of the rod (in metres) is
 (1) 0.8 (2) 2 (3) 3 (4) 4
136. The Value of $\operatorname{cosec}^2 18^\circ - \frac{1}{\cot^2 72^\circ}$
 (1) $\frac{1}{\sqrt{3}}$ (2) $\frac{\sqrt{2}}{3}$ (3) $\frac{1}{2}$ (4) 1
137. If $\alpha + \beta = 90^\circ$, then the value of $(1 - \sin^2 \alpha) (1 - \cos^2 \alpha) \times (1 + \cot^2 \beta) (1 + \tan^2 \beta)$ is
 (1) 1 (2) -1 (3) 0 (4) 2
138. If $\tan \theta - \cot \theta = 0$, find the value of $\sin \theta + \cos \theta$.
 (1) 0 (2) 1 (3) $\sqrt{2}$ (4) 2
139. If the interior angle of a regular polygon is double the measure of exterior angle, then the number of sides of the polygon is
 (1) 6 (2) 8 (3) 10 (4) 12

140. A right prism stands on a base 6 cm equilateral triangle and its volume is $81\sqrt{3} \text{ cm}^3$. The height (in cms) of the prism is
 (1) 9 (2) 10 (3) 12 (4) 15
141.
$$\frac{2 \sin 68^\circ}{\cos 22^\circ} - \frac{2 \cot 15^\circ}{5 \tan 75^\circ} - \frac{3 \tan 45^\circ \cdot \tan 20^\circ \cdot \tan 40^\circ \cdot \tan 50^\circ \cdot \tan 70^\circ}{5}$$

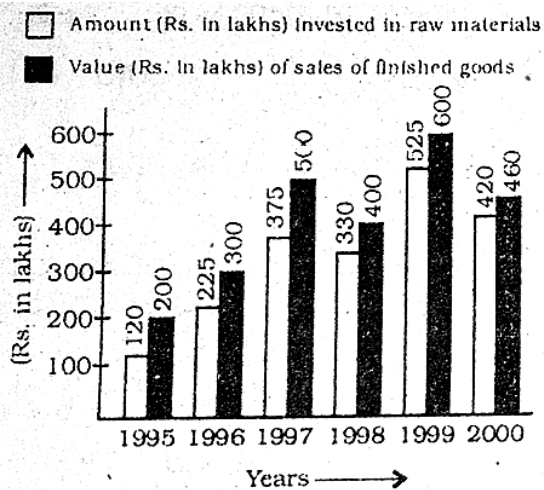
 is equal to
 (1) -1 (2) 0 (3) 1 (4) 2
142. If two pipes function simultaneously, a tank is filled in 12 hours. One pipe fills the tank 10 hours faster than the other. How many hours does the faster pipe alone take to fill the tank?
 (1) 20 (2) 18 (3) 15 (4) 12
143. Two right circular cones of equal height of radii of bases 3 cm and 4 cm are melted together and made to a solid sphere of radius 5 cm. The height of a cone is
 (1) 10 cm (2) 20 cm (3) 30 cm (4) 40 cm
144. The elevation of the top of a tower from a point on the ground is 45° . On travelling 60m from the point towards the tower, the elevation of the top becomes 60° . The height of the tower, in metres, is
 (1) 30 (2) $30(\sqrt{3} - 1)$
 (3) $30(\sqrt{3} + 1)$ (4) $30\sqrt{3}$
145. $\frac{a-b}{b-c} + \frac{b-c}{c-a} + \frac{c-a}{a-b}$, where $a \neq b \neq c$. is
 (1) 0 (2) 1 (3) 2 (4) 3
146. The product of two numbers is 2160 and their HCF is 12. Number of such possible pairs is
 (1) 1 (2) 2 (3) 3 (4) 41

Directions (147-148) : Study the following table and answer the questions.

Year	Percentage of Candidates Qualified under discipline					Total Number of Candidates qualified
	Arts	Science	Commerce	Agriculture	Engineering	
2006	24	40	19	9	8	780
2007	15	42	18	13	12	650
2008	20	45	20	8	7	500
2009	15	45	16	14	10	620
2010	19	35	15	19	12	900
2011	18	42	14	12	14	850

147. The decrease in the number of candidates qualified under Arts discipline from 2010 to 2011 as
 (1) 11 (2) 18 (3) 42 (4) 69
148. The difference in the average number of candidates qualified in Science, discipline per year from 2006 to 2008 and the average number of candidates qualified in the same discipline from 2009 to 2011 was
 (1) 47 (2) 57 (3) 74 (4) 141

Directions (149-150) : Study the following graph and answer the given questions



149. In which year, there has been a maximum percentage increase in the amount invested in raw materials as compared to the previous year?
 (1) 1996 (2) 1997 (3) 1998 (4) 1999
150. What was the difference between the average amount invested in raw materials during the given period and the average value of sales of finished goods during this period?
 (1) Rs. 62.5 lakhs (2) Rs. 68.5 lakhs
 (3) Rs. 71.5 lakhs (4) Rs. 77.5 lakhs

PART-IV
GENERAL AWARENESS

151. The principle of maximum social advantage is the basic principle of
 (1) Micro Economics (2) Macro Economics
 (3) Fiscal Economics (4) Environmental Economics
152. Which Five Year Plan is not correct among the following?
 (1) First 1951-56 (2) Second 1956-61
 (3) Third 1961-66 (4) Fourth 1966-71
153. The ordinary and maximum tolerance limit of sound by human being is
 (1) 50 db to 70 db (decibel)
 (2) 60 db to 80 db (decibel)
 (3) 65 db to 75 db (decibel)
 (4) 70 db to 85 db (decibel)
154. An economic theory is a/an
 (1) Axion (2) Proposition
 (3) Hypothesis (4) Tested hypothesis
155. Indian Special Economic Rules amendment came in the year
 (1) 2000 (2) 2002 (3) 2004 (4) 2006
156. Provisions of citizenship in Indian Constitution, became applicable in
 (1) 1950 (2) 1949 (3) 1951 (4) 1952
157. Who gave the title of "Sardar" to Vallabh Bhai Patel?
 (1) Mahatma Gandhi (2) VinobaBhave
 (3) Women of Bardoli (4) Peasants of Gujrat
158. According to Marx, the source of value is
 (1) Capital (2) Land

- (3) Labour (4) None of the above
159. The National Emergency in India declared by the President of India due to the external aggression or armed revolt through
 (1) Article-352 (2) Article-356
 (3) Article-360 (4) Article-368
160. The Community Development Programme was launched in the year
 (1) 1950 (2) 1952 (3) 1951 (4) 1953
161. What Satyagraha was held at Nagpur in 1923?
 (1) Salt Satyagraha
 (2) Individual Satyagraha
 (3) Ryots Satyagraha
 (4) Flag Satyagraha
162. Which one of the following is not a sect of Buddhism?
 (1) Mahayana (2) Hinayana
 (3) Digambar (4) Theravad
163. Who was the viceroy when Delhi became the capital of British India?
 (1) Lord Curzon (2) Lord Minto
 (3) Lord Hardinge (4) Lord Waveli
164. Who established the Indian Civil Liberties Union in 1936?
 (1) Subhash Chandra Bose
 (2) Bal Gangadhar Tilak
 (3) Jawahar Lai Nehru
 (4) Rajendra Prasad
165. Which of the following was established first?
 (1) Banaras Hindu University
 (2) University of Bombay
 (3) Aligarh Muslim University
 (4) University of Allahabad
166. "Yosemite" is a
 (1) River (2) Peak
 (3) Waterfall (4) Dam
167. The first Indian Satellite Aryabhata was launched in
 (1) 1972 (2) 1975
 (3) 1977 (4) 1979
168. Where is the shore based steel plant located?
 (1) Tuticorin (2) Salem
 (3) Vishakhapatnam (4) Mangalore
169. Which two of the following are connected by the North South corridor?
 (1) Srinagar and Kanyakumari
 (2) Mumbai and Chennai
 (3) Amritsar and Kolkata
 (4) Hyderabad and Bhopal
170. The pollutants which move down-ward with percolating ground water are called
 (1) Leachates (2) Pollutates
 (3) Earthites (4) Percolates
171. Lungs are located in the
 (1) abdominal cavity (2) pericardial cavity
 (3) peritoneal cavity (4) pleural cavity
172. Which one of the following is the ideal food for newborn babies?
 (1) Water (2) Sugar (3) Honey (4) Milk
173. Transcription means the synthesis of
 (1) Lipids (2) Protein (3) DNA (4) RNA

174. Hydrochloric acid is secreted by the cells lining the
 (1) Oral cavity (2) Stomach
 (3) Ileum (4) Colon
175. Emulsification is
 (1) breaking fats into small globules
 (2) digestion of fats
 (3) absorption of fats
 (4) storage of fats
176. Taxonomy is a science that deals with
 (1) Morphology (2) Anatomy
 (3) Classification (4) Economic uses
177. Which one of the following is responsible for the working Newton's colour disc experiment?
 (1) Formation of pure spectra
 (2) Formation of impure spectra
 (3) Persistence of vision
 (4) Principle of complementary colour
178. The dimension MLT^{-2} corresponds to
 (1) force (2) work done
 (3) acceleration (4) velocity
179. Who is the founder of quantum theory of radiation?
 (1) Einstein (2) Bohr (3) Plank (4) S. N. Bose
180. Fiber optics cable used in communication, works on the principle of
 (1) regular reflection of light
 (2) diffuse reflection of light
 (3) refraction of light
 (4) total internal reflection of light
181. Which was the first electronic computer constructed at the Moore School of Engineering?
 (1) EOVAC (2) ONIVAC (3) ENIAC (4) EDSAC
182. Which among the following standard protocols is the most widely used by the Internet?
 (1) HTTP (2) TCP/IP (3) SMTP (4) SLIP
183. The outer skin most of the crustaceans are made up of a carbohydrate. This carbohydrate is
 (1) cellulose (2) galactose
 (3) chitin (4) starch
184. Rutherford's scattering experiment proved the presence of
 (1) atoms in all matter
 (2) electrons in atoms
 (3) neutrons in atoms
 (4) nucleus in atoms
185. When a metal is heated in a flame, the electrons absorb energy and jump to higher energy state. On coming back to the lower energy state, they emit light, which we can observe in
 (1) Raman spectra (2) Absorption spectra
 (3) Emission spectra (4) Fluorescence
186. Blood pressure may be increased by the excessive secretion of
 (1) Thyroxine (2) Testosterone
 (3) Estradiol (4) Estrol
187. The concept of "Green House Gases" was postulated by
 (1) Joseph Fourier (2) Abdul Kalam
 (3) M. S. Swaminathan (4) Michael Carlson
188. "Bhopal gas tragedy" 1984 is related to
 (1) Aluminium Phosphide (2) Methyl bromide
 (3) Methyl isocyanate (4) Carbon dioxide
189. The Particulate Matter (PM-10) exhaled from the polluted atmosphere is often filtered out during the process of
 (1) Coughing (2) Sneezing
 (3) A and B (4) Urination
190. Sarus crane is the state bird of
 (1) Rajasthan (2) Uttar Pradesh
 (3) Madhya Pradesh (4) West Bengal
191. Who among the following was elected Prime Minister of Finland by the country's coalition on June 14 2014?
 (1) Paula Risikko (2) Jyrki Katainen
 (3) Alexander Stubb (4) Sauli Niinisto
192. Anil Ambani led Reliance communications has set itself an internal target of reducing its overall debt by Rs. 20,000 crore by March 31, 2016 mainly by divesting stake in prime real estate properties and selling off some of its assets. Reliance Communications overall debt as on March 31, 2014 stood at
 (1) Rs. 36,000 crore (2) Rs. 40,000 crore
 (3) Rs. 42,000 crore (4) Rs. 44,000 crore
193. Who among the following won the "women's singles" title at the Wimbledon Tennis Championship 2014 on July 5, 2014?
 (1) Eugenie Bouchard, Canada
 (2) Petra Kvitova, Czech Republic
 (3) Simona Halep, Romania
 (4) Lucie Safarova, Czech Republic
194. "Martyr's Day" is marked on
 (1) January 1 (2) January 15
 (3) January 30 (4) January 9
195. Who among the following will succeed Som Mittal as the President of National Association of Software and Services Companies (NASSCOM) in January 2014?
 (1) M S Raghavan (2) R Chandrashekar
 (3) Swati Piramal (4) P K Das
196. The animal who can consume more salt among the following is
 (1) Sheep (2) Camel
 (3) Donkey (4) Dog
197. Which of the following is only domestic Airport?
 (1) Dabolin Airport Goa (2) Srinagar Airport
 (3) Devi Ahilyabai Holkar Airport
 (4) None of the above
198. The advance version of which of the following missiles was successfully test-fired from the Integrated Test Range at Chandipur off the Odisha coast on July 8, 2014?
 (1) Akash (2) Agni (3) BrahMos (4) Prithvi
199. What is the rank of India in the latest report of the World Bank released in June 2014 in terms of ease of doing business?
 (1) 132nd (2) 134th (3) 136th (4) 128th
200. Where did Aurangzeb die?
 (1) Pune (2) Aurangabad
 (3) Ahmad Nagar (4) Mumbai

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

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

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

KRISHNA VENI