STAFF SELECTION COMMISSION

COMBINED GRADUATE LEVEL

TIER-I PREVIOUS PAPER-2016

GENERAL INTELLIGENCE

1. Select the related word from the given alternatives : Bacteria : Microscope : : Moon : ?

1) Night   2) Earth   3) Satellite   4) Telescope

2. Select the related word/letters/number from the given alternatives.

LNPR : TVXZ : : NPRT : ?

1) FHJL   2) FLJH   3) HFLJ   4) JLHF

3. Select the related number from the given alternatives.

27 : 125 : : 64 : ?

1) 517   2) 162   3) 216   4) 273

4. Find the odd word from the given alternatives

1) Novel   2) Paper   3) Pencil   4) Pen

5. Find the odd letters from the given alternatives:

1) acDD   2) egHH   3) ikLL   4) QSTt

6. Find the odd word/letter/number pair from the given alternatives:

1) 65–90   2) 73–97   3) 112–137   4) 162–187

7. Arrange the following words as per order in the dictionary:

a. Guarantee   b. Group   c. Grotesque   d. Guard   e. Groan

1) a, c, e, b, d   2) b, e, a, d, c   3) b, c, e, a, d   4) e, c, b, a, d

8. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?

x y – k x – z k – y x k x y z – –

1) z y x k x   2) z y k x z   3) z k x y k   4) z x y k x

9. Find the missing number in the series:

219, 211, 204, 198, ?, 189

1) 189   2) 192   3) 193   4) 196

10. If M is the sister of Z, Z is the wife of P and P is the son of A, how Z relates to A?

1) Daughter–in–law   2) Daughter   3) Wife   4) Mother

11. The sum of ages of 4 children born at intervals of 4 years each is 60. What is the age of the youngest child?

1) 7   2) 9   3) 10   4) 12

12. From the given alternative words, select the word which cannot be formed using the letters of the given word: ENVIRONMENT

1) OINTMENT   2) MENTOR   3) VENOM   4) TRIM

13. In a certain code CAMEL is written as MFNBD How shall TIGER be written in that code?

1) SFUJH 2) SFHJU 3) SFJUH 4) SHFJU

14. If × means −, + means ×, ÷ means + and − means ÷, then what is the value of the given expression?

$175 − 25 ÷ 5 + 2 × 3 + 10 = ?$

1) 77 2) 160 3) 240 4) None

15. If $4 * 2 = 3$ and $8 * 4 = 3$, then $21 * 7 = ?$

1) 4 2) 3 3) 8 4) 16

16. Select the missing numbers from the given alternative:

17	11	19
12	13	16
25	4	?

1) 9 2) 16 3) 25 4) 36

17. A man walks 5 kilometre towards South and then turns to the right. After walking 3 kilometre, he turns to the left and walks 5 kilometre. Now in which direction is he from the starting point?

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

18. Consider the given statements to be true and decide which of the given conclusions/assumptions can definitely be drawn from the given Statements.

Statements: 1. Life means stresses and strains.

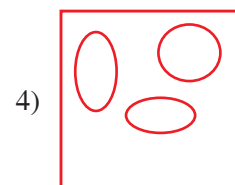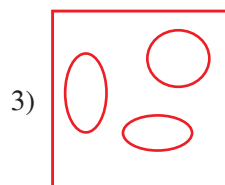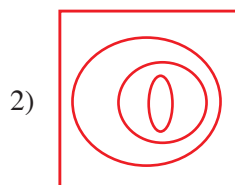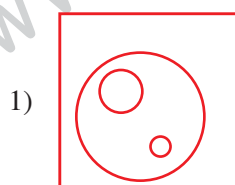2. Stresses and strains have an adverse effect on life.

Conclusions: I. Life is not worth living.

II. One should avoid stresses and strains in life.

1) Only conclusion I follows

2) Only conclusion II follows

3) Both conclusion I and conclusion II follows

4) Neither conclusion I nor conclusion II Follows

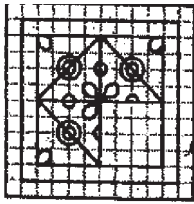**19.** How many triangles are there in this geometric figure?

1) 12 2) 16 3) 18 4) 20

20. Which of the answer figures best indicate the relationship between:
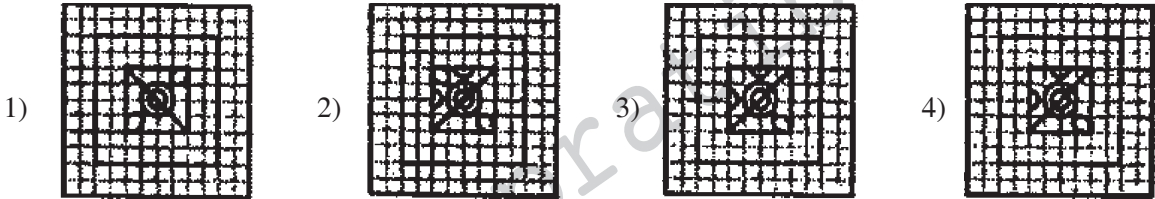
Doctors, Nurses, Hospital

1)   2)   3)   4)

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

Question Figure

Answer Figures

1) 2) 3) 4)

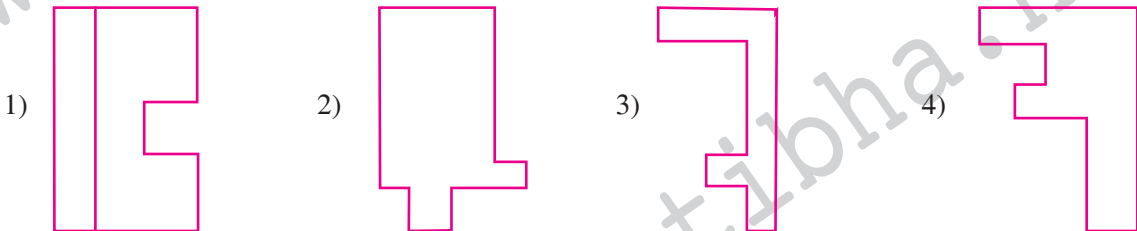**22.** From the given answer figures, select the one in which the question figure is hidden/embedded

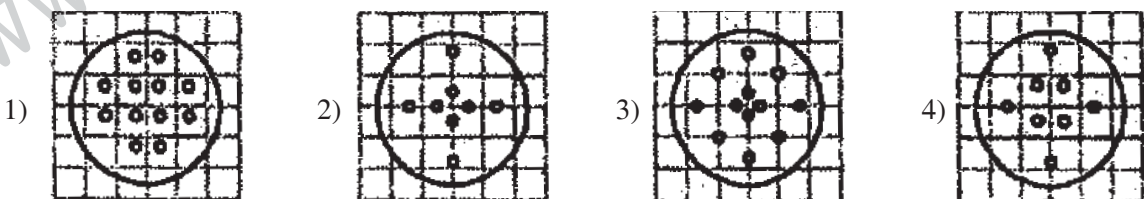**Question Figure**

Answer Figures

1) 2) 3) 4)

23. A piece of paper is folded and cut as shown below in the figures. From the given answer figures, indicate how it will appear when opened.
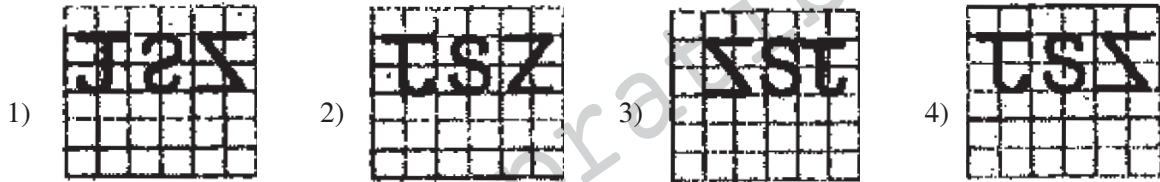
Question Figure

Answer Figures

1) 2) 3) 4)

24. 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)

25. In this question, a word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in two matrices given below. The columns and rows of Matrix I are numbered from 0 to 4 and that of Matrix II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, e.g., 'G' can be represented by 01 and 'P' can be represented by 10, 44, etc. Similarly you have to identify the set for the word 'BARK'

Matrix-I

	0	1	2	3	4
0	K	G	E	A	5
1	P	V	H	R	Y
2	N	U	N	R	K
3	W	S	B	O	J
4	T	U	A	I	P

Matrix-II

	5	6	7	8	9
5	A	H	U	W	N
6	Y	R	B	T	V
7	O	I	H	B	Q
8	V	O	E	I	S
9	E	T	K	W	P

1) 32,55, 69, 24 2) 32, 03, 66, 57 3) 67, 42, 66, 00 4) 23, 30, 66, 97

GENERAL AWARENESS

26. What is the maximum number of days of employment a rural poor would get under "MGNREGA"?

1) 180 days 2) 120 days 3) 100 days 4) 90 days

27. Scheduled bank is a bank which is

1) Nationalised

2) Not Nationalised

3) Based in foreign country

4) Included in the second schedule of RBI

28. Black soil is also known by which of the following name?

    1) Khadar Soil
    2) Bangar Soil
    3) Alluivial Soil
    4) Regur Soil

29. What is the name of the book written by Panini?

    1) Mahabhashya
    2) Mitakshara
    3) Madhyamika Karika
    4) Ashtadhyayi

30. Which dynasty was started by Khizr Khan?

    1) The Sayyids
    2) The Lodhis
    3) The Rajputs
    4) The Khiljis

31. The instrument used for measuring air pressure is called

    1) Anemometer
    2) Barometer
    3) Hygrometer
    4) Thermometer

32. Gustation refers to the sense of which of the following?

    1) Smell
    2) Hearing
    3) Tactile
    4) Taste

33. Intensity of any wave is proportional to which of the following?

    1) Amplitude
    2) Square of amplitude
    3) Square root of amplitude
    4) Cube of amplitude

34. In the following list of devices which device is used in network layer?

    1) Repeaters
    2) Router
    3) Application Gateway
    4) Switch

35. NTPC is a Central Public Sector Enterprise in which sector?

    1) Education
    2) Health
    3) Power
    4) Transport

36. Which State government has launched the Smart Village Programme, to improve public facilities in village?

    1) Maharashtra
    2) Rajasthan
    3) Odisha
    4) Gujarat

37. Rodrigo "Digong" Duterte emerged winner in 2016 presidential elections of which country?

    1) Mexico
    2) The Philippines
    3) Spain
    4) Singapore

38. What is commonly known as 'white plague'?

    1) Typhoid
    2) Malaria
    3) Tuberculosis
    4) Plague

39. What are gilt-edged securities?

    1) Securities issued by the multinational companies
    2) Securities issued by the Government
    3) Securities issued by the private sector
    4) Securities issued by the joint venture companies

40. In whose consultation does the President convene and prorogue all sessions of Parliament?

    1) The Speaker
    2) The Prime Minister
    3) The Prime Minister and the leader of the opposition in LokSabha
    4) The Council of Ministers

41. With which religion is Kaivalya associated?

1) Buddhism   2) Jainism   3) Hinduism   4) Sikhism

42. Bauxite is used as raw material by which industry?

1) Aluminium   2) Iron   3) Steel   4) Gold

43. The large collection of stars, dust and gas held together by gravitational attraction between components is known as

1) Cluster   2) Atmosphere   3) Galaxy   4) Sun Family

44. Thermal electricity is generated by using which of these?

1) Coal only

2) Coal and Natural Gas only

3) Coal, Natural Gas and Petroleum

4) None of these

45. When iron rusts, its weight?

1) decreases   2) increases

3) remains the same   4) first increases and then decreases

46. The driest location on Earth is in which country?

1) Kenya   2) Chile   3) Congo   4) Libya

47. Which leader of British Labour Party was recently elected the first Muslim Mayor of London?

1) Sadiq Khan   2) Ataullah Khan

3) Firdauz Zaidi   4) Karim Shaikh

48. 'Lady Ratan Tata Trophy' is related to which game?

1) Basketball   2) Hockey   3) Kho-Kho   4) Cricket

49. Which instrument is used for measuring humidity of atmosphere?

1) Barometer   2) Anemometer

3) Thermometer   4) Hygrometer

50. Pankaj Advani is associates with sport?

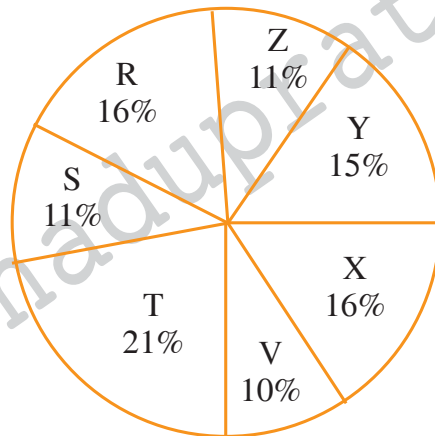1) Billiards   2) Boxing   3) Cricket   4) Badminton

QUANTITATIVE APTITUDE

51. Find the least number which must be subtracted from 18265 to make it a perfect square.

1) 30   2) 38   3) 40   4) 45

52. A and B together can do a piece of work in 36 days, B and C together can do it in 24 days. A and C together can do in 18 days. The three working to-gether can finish the work in

1) 8 days   2) 16 days   3) 30 days   4) 32 days

53. Two adjacent sides of a paral lelogram are 21 cms and 20 cms. The diagonal joining the end points of these two sides is 29 cms. The area of the parallelogram (in sq. cms) is

1) 240   2) 120   3) 210   4) 420

54. A dealer marks his goods 20% above cost price. He then allows some discount on it and makes a profit of 8%. The rate of discount is

1) 4%   2) 6%   3) 10%   4) 12%

55. Sum of two numbers is thrice their difference. Their ratio is

1) 1 : 2   2) 2 : 1   3) 3 : 1   4) 1 : 3

56. The average age of 36 students in a group is 14 years. When the teacher's age is included in it, the average increases by one. The teacher's age in years is

1) 31   2) 51   3) 36   4) 50

57. A dishonest dealer professes to sell his goods at cost price but uses a weight of 875 gms for the kilogram weight. His gain in percentage is a

1) 17%   2) $14\dfrac{5}{7}$ %   3) $14\dfrac{2}{7}$ %   4) 14%

58. A's salary is 50% more than that of B. Then B's salary is less than that of A by

1) 50%   2) $33\dfrac{1}{3}$ %   3) $33\dfrac{1}{4}$ %   4) $44\dfrac{1}{2}$ %

59. Speed of a boat along and against the current are 14 km/hr and 8 km/hr respectively. The speed of the current is

1) 11 km/hr   2) 6 km/hr   3) 5.5 km/hr   4) 3 km/hr

60. If the simple interest on Rs. 1 for 1 month is 1 paisa, then the rate percent per annum will be

1) 10%   2) 8%   3) 12%   4) 6%

61. If $\dfrac{a}{b} + \dfrac{b}{a} = 1$, then the value of $a^3 + b^3$ will be

1) 1   2) 0   3) −1   4) 2

62. If p = 99, then the value of $p(p^2 + 3p + 3)$ will be

1) 999999   2) 1000000   3) 1000001   4) 999998

63. If $a - b = 1$ and $a^3 - b^3 = 61$, then the value of ab will be

1) −20   2) 20   3) 30   4) 60

64. If $\dfrac{x}{a + b} + 1 = \dfrac{x}{a - b} + \dfrac{a - b}{a + b}$, then x is equal to

1) 2a − b   2) a + b   3) a − b   4) 2a + b

65. The point where all the three medians of a triangle meet is called

1) Centroid   2) Incentre   3) Circumcentre   4) Orthocentre

66. Δ ABC is a right angled triangle has ∠B = 90° and AC is hypotenuse. D is its circumcentre and AB = 3 cm, BC = 4 cm. The value of BD is

1) 3 cm   2) 4 cm   3) 2.5 cm   4) 5.5 cm

67. Δ ABC is an equilateral triangle and D and E are midpoints of AB and BC respectively. Then the area of Δ ABC: the area of the trapezium ADEC is

1) 5 : 3   2) 4 : 1   3) 8 : 5   4) 4 : 3

68. In an isosceles triangle ABC, AB = AC, XY ∥ BC. If ∠A = 30°, then ∠BXY = ?

1) 75°   2) 30°   3) 150°   4) 105°

69. The value of $\sec^2 17° - \dfrac{1}{\tan^2 73°} - \sin 17° \sec 73°$ is

1) 1　　　　　　　2) 0　　　　　　　3) –1　　　　　　　4) 2

70. If $x = a \cos θ \cos θ$, $y = a \cos θ \sin θ$ and $z = a \sin θ$, then the value of $(x^2 + y^2 + z^2)$ is

1) $2a^2$　　　　　　2) $4a^2$　　　　　　3) $9a^2$　　　　　　4) a^2

71. A 1.6 m tall observer is 45 metres away from a tower. The angle of elevation from his eye to the top of the tower is 30°, then the height of the tower in metres is (Take $\sqrt{3} = 1.732$)

1) 25.98　　　　　2) 26.58　　　　　3) 27.58　　　　　4) 27.98

Directions (72–75): The following pie chart shows proportion of population of seven villages in 2009. Study the pie chart and answer the question that follow:

Village	% of population Below Poverty Line
X	38
Y	52
Z	42
R	51
S	49
T	46
V	58

72. If the below poverty line population of the village X is 12160, then the population of village S is

1) 18500　　　　　2) 20500　　　　　3) 22000　　　　　4) 20000

73. The ratio of the below poverty line population of village T to that of the below poverty line population of village Z is

1) 11 : 23　　　　　2) 13 : 11　　　　　3) 23 : 11　　　　　4) 11 : 13

74. If the population of the village R is 32000, then the below poverty line population of village Y is

1) 14100　　　　　2) 15600　　　　　3) 16500　　　　　4) 17000

75. In 2010, the population of T and V increases by 10% each and the percentage of population below poverty line remains unchanged for all the villages. If in 2009, the population of village Y was 30,000. Then the below poverty line population of village V in 2010 is

1) 11250　　　　　2) 12760　　　　　3) 13140　　　　　4) 13780

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ENGLISH COMPREHENSION

76. In the following question, out of the four alternatives, choose the word which best expresses the meaning of the given word.

PALLID

1) Friendly   2) Pale   3) Worthless   4) Comforting

77. In the following question, out of the four alternatives, choose the word which is opposite in meaning to the given word.

INTANGIBLE

1) Ethereal   2) Concrete   3) Insubstantial   4) Abstract

78. Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word.

1) Pontifical   2) Pontiffical   3) Pontifecal   4) Pontificol

Directions (79–81): In the following questions, one part of the sentences may have an error. Find out which part of the sentence has an error and choose the option corresponding to it. If the sentence is free from error, choose the "No error" option.

79. I always enjoy (1)/ to read (2)/ books. (3)/ No Error(4)

80. Variety (1)/ is (2)/ spice of life. (3)/ No Error (4)

81. Neither of the scout leaders know (1)/ how to trap wild animals (2)/ or how to prepare them for mounting. (3)/ No Error (4)

Directions (82–84): The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative.

82. We can .... see any thing in the dim light.

1) badly   2) scarcely   3) fairly   4) rather

83. Few countries can .... India in variety, colour and the richness of dance forms.

1) compare   2) rival   3) perform   4) prevail

84. The scheme allows students from different countries to communicate

1) each other   2) with each others

3) themselves   4) with one another

Directions (85–87): In each of the questions, four alternatives are given for the Idiom/Phrase. Choose the alternative which best expresses the meaning of the Idiom/Phrase

85. Straw in the wind

1) A light-weight object   2) A lucky charm

3) A game that kids play   4) An indication of what might happen

86. Face the music

1) Be applauded   2) Be ridiculed

3) Be punished   4) Be dismissed

87. Curry favour

1) Seek impartial judgement   2) Seek favourable attention

3) Prepare a dish   4) Attract attention

Directions (88–90): In the following questions, out of the four alternatives, choose the One which can be substituted for the given words/ sentences.

88. **A brief or short stay at a place**

    1) Solitude   2) Soiree   3) Sojourn   4) Solistice

89. **That which can be believed**

    1) Miraculous   2) Creditable   3) Credible   4) Gullible

90. **One who is indifferent to pain or pleasure**

    1) Eccentric   2) Philosopher   3) Fatalist   4) Stoic

Directions (91–95): In which of the following questions, a sentence/ a part of the sentence is printed in bold. Four alternatives are given to the **bold** part which will improve the sentences. Choose the correct alternative Corresponding to it. In case no improvement is needed, choose the alternative corresponding to " No improvement".

91. **Knowing that the area was prone to earthquakes,** all the buildings were reinforced with additional concrete.

    1) On being prone to earth-quakes

    2) Having been knowing that the area was prone to earth-quakes

    3) Since the area was known to be prone to earth-quakes

    4) No improvement

92. I will not buy **some** mangoes.

    1) a little   2) much   3) any   4) No improvement

93. He **would surely assist me** if I had requested him to do so.

    1) would surely assisted me   2) would have surely assisted me

    3) will have surely assisted me   4) No improvement

94. The **alarming report** of the plane crash left everyone in a state of shock.

    1) alarmed report   2) alarmed reporting

    3) reported alarm   4) No improvement

95. We were **not** the wiser after hearing the explanation.

    1) none   2) neither   3) nevertheless   4) No improvement

Directions (96–100): A passage is given with 5 Questions following it. Read the passage carefully and choose the best answer to each questions out of the four alternatives.

Another marvel on the far side of the lake was a little farm that felt like a secret in the city. Some of the gaunt Karnataka labourers even looked away when children came to dig and eat. But the greatest pleasure, this side of the lake was the jamun tree. A few months back, Kalu and Sunil had a feast in the branches, shaking down a few berries for Mirchi.

That's when they came to know the second coolest thing about the jamun tree. There were parrots nesting in it. Since then some other road boys had been capturing the parrots one by one to sell at the Marol Market, but Sunil had brought Kalu around to the belief that the birds should be left as they were. Sunil listened for their squawks each morning, to make sure they- hadn't been abducted in the night.

Kalu's expertise was in the re-cycling bins inside air- line catering compounds. Private waste collectors emptied these dumpsters on a regular basis, but Kalu had mastered the trash truck's schedules. The night before pickup, Kalu would climb over the barbed wire fences and raid the overflowing bins.

Kalu 's routine had become known by the local police, however. He kept getting caught, until some constables proposed a different arrangement. Kalu could keep his metal scrap if he'd pass on information he picked up on the road about local drug dealers.

96. What was the greatest pleasure this side of the lake?

1) A secret farm

2) The Jamun tree

3) Feasting on the branches of the Jamun tree

4) Labourers looking away when the children came to dig and eat

97. What was the second coolest thing about the Jamun tree?

1) Shaking down the berries for Mirchi

2) There were parrots nesting in the tree

3) Selling parrots in the Maroi Market

4) Capturing parrots in the tree

98. What did Sunil think of parrots?

1) That they should be captured and sold.

2) That they had been abducted in the night.

3) That they should not be captured and sold.

4) That they squawked every morning.

99. How did Kalu manage to raid the airline recycling bins before they were emptied?

1) He was an expert

2) He jumped over the barbed wire fences.

3) He had mastered the trash truck schedules.

4) He worked at night

100. Why was a different arrangement proposed?

1) Because Kalu's routine was known by the police

2) So that Kalu would be able to keep his metal scrap

3) So that Kalu could pass on information about local drug dealers

4) Because Kalu kept getting caught

ANSWERS

1-4; 2-1; 3-3; 4-1; 5-4; 6-2; 7-4; 8-1; 9-3; 10-1; 11-2; 12-1; 13-2; 14-4; 15-1; 16-1;17-4; 18-2; 19-3; 20-1; 21-2; 22-4; 23-1; 24-4; 25-3; 26-3; 27-4; 28-4; 29-4; 30-1; 31-2; 32-4; 33-2; 34-2; 35-3; 36-4; 37-2; 38-3; 39-2; 40-2; 41-2; 42-1; 43-3; 44-3; 45-2; 46-2; 47-1; 48-2; 49-4; 50-1; 51-3; 52-2; 53-4; 54-3; 55-2; 56-2; 57-3; 58-2; 59-4; 60-3; 61-2; 62-1; 63-2; 64-3; 65-1; 66-3; 67-4; 68-4; 69-2; 70-4; 71-3; 72-3; 73-3; 74-2; 75-2; 76-2; 77-2; 78-1; 79-2; 80-3; 81-1; 82-2; 83-2; 84-4; 85-4; 86-3; 87-2; 88-3; 89-3; 90-4; 91-3; 92-3; 93-2; 94-4; 95-1; 96-2; 97-2; 98-1; 99-3; 100-4.