PREVIOUS YEAR PAPER

SSC CGL 2016 Tier I — 10 September 2016, Shift 3

SSC CGL · 10 September 2016 · 4:15 PM - 5:30 PM

84 of the paper's 100 questions · +2 for a correct answer, −0.5 for a wrong one · 75 minutes

Left out of the original paper: 16 (any question that needs a figure or formatting we cannot show, has no answer in the response sheet, or could not be checked against a second copy of the paper).

Questions from the Staff Selection Commission's paper of 10 September 2016, 4:15 PM - 5:30 PM. Each question is followed by its answer, and the answer key is repeated on the last page.

Take it as a timed practice test: exambharo.com/ssc-cgl/previous-year-papers/ssc-cgl-2016-tier-1-10-sep-shift-3/

General Intelligence and Reasoning

1. Select the related word/letters/numbers from the given alternatives: Line : Square :: Arc : ?
   (a) Ring
   (b) Sphere
   (c) Circle
   (d) Ball
   Answer: (c)

2. Select the related word/letters/numbers from the given alternatives: FJSP : DLQR :: GMIL : ?
   (a) EOGN
   (b) JNIO
   (c) HOGN
   (d) IONG
   Answer: (a)

3. Select the related word/letters/numbers from the given alternatives: 21 : 3 :: 574 : ?
   (a) 23
   (b) 82
   (c) 97
   (d) 113
   Answer: (b)

4. For the following questions Find the odd word/letters/number from the given alternatives.
   (a) Tabla
   (b) Tanpura
   (c) Sarod
   (d) Sitar
   Answer: (a)

5. For the following questions Find the odd word/letters/number from the given alternatives.

(a) CBED

(b) JILK

(c) TSVU

(d) VZXY

Answer: (d)

6. For the following questions Find the odd word/letters/number from the given alternatives.

(a) 132

(b) 176

(c) 279

(d) 352

Answer: (c)

7. Arrange the following words as per order in the dictionary
1. Sinister 2. Sinuous 3. Sinhalese 4.Sinusitis 5. Sinecure

(a) 5, 3, 2, 4, 1

(b) 5, 2, 4, 3, 1

(c) 5, 2, 1, 3, 4

(d) 5, 3, 1, 2, 4

Answer: (d)

8. A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series. LMA, NOB, PQC, ? , STE

(a) TUV

(b) RSD

(c) DOA

(d) BRD

Answer: (b)

9. A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series. 41, 43, 47, 53, ?

(a) 59

(b) 63

(c) 61

(d) 65

Answer: (c)

10. Pointing towards a boy Meera said 'He is the son of the only son of my grandfather.' How is that boy related to Meera?

(a) Cousin

(b) Brother

(c) Uncle

(d) Brother-in-law

Answer: (b)

11. In a row of 15 children, when Raju was shifted three places towards right, he became 8th from the right end. What was his earlier position from the left end of the row?

(a) 14
(b) 12
(c) 6
(d) 5

Answer: (d)

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

(a) CEMENT
(b) DEMENTIA
(c) PREDICT
(d) PRIMER

Answer: (d)

13. In a certain code, 'TEACHER' is written as VGCEJGT. How is 'CHILDREN' written in that code?

(a) EJKNEGTP
(b) EJKNFTGP
(c) EJNFITP
(d) EJKNFTGH

Answer: (b)

14. If L denotes 'x', M denotes '÷', P denotes '+' and Q denotes '-', then 16P24M8Q6M2L3

(a) 13/6
(b) -1/6
(c) 14½
(d) 10

Answer: (d)

15. The missing number in the given series is: 15 (105) 14 , 13 (?) 12

(a) 91
(b) 78
(c) 65
(d) 68

Answer: (b)

16. Select the missing numbers from the given alternatives

(a) 60
(b) 70
(c) 80
(d) 90

Answer: (d)

17. Prabhu travelled from his house a distance of 20kms to his friend's house. After some time he left his friends house and took a turn towards right and travelled 15 kms to reach a park. After resting for a while, he again started and turned to right and travelled 18 kms to reach a petrol bunk. From there he again turned right and covered a distance of 15 kms. How many km more he has to travel to reach home?

(a) 2 kms

(b) 18 kms

(c) 21 kms

(d) 23 kms

Answer: (a)

18. Consider the given statement/s to be true and decide which of the given conclusions/ assumptions can definitely be drawn from the given statement. Statements: Some flies are ants. All insects are ants. Conclusions: I. All flies are ants. II. Some ants are insects.

(a) Only conclusion I follows

(b) Only conclusion II follows

(c) Both conclusion I and conclusion II follow

(d) Neither conclusion I nor conclusion II follows

Answer: (b)

25. In the 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., 'C' can be represented by 04, 40, etc., and 'K' can be represented by 56, 75, etc. Similarly you have to identify the set for the word 'NICE'

(a) 66, 58, 33, 02

(b) 87, 65, 03, 24

(c) 66, 23, 68, 30

(d) 59, 68, 40, 02

Answer: (a)

General Awareness

26. Bilateral monopoly situation is

(a) when there are only two sellers of a product

(b) when there are only two buyers of a product

(c) when there is only one buyer and one seller of a product

(d) when there are two buyers and two sellers of a product

Answer: (c)

27. Lorenz curve shows
    (a) Inflation
    (b) Unemployment
    (c) Income distribution
    (d) Poverty

    Answer: (c)

28. The Preventive Detention Act curtailed
    (a) Right to Freedom
    (b) Right to Equality
    (c) Right to Property
    (d) Education Right

    Answer: (a)

29. Ornithophily is effected by
    (a) snails
    (b) bats
    (c) insects
    (d) birds

    Answer: (d)

30. To which ganarajya Gautam Buddha belonged?
    (a) Shibi
    (b) Shakya
    (c) Saurasena
    (d) Shabara

    Answer: (b)

31. Which of the following is not an Igneous Rock?
    (a) Dolomite
    (b) Granite
    (c) Basalt
    (d) Gabbro

    Answer: (a)

32. Which of the following vitamins help in the absorption of calcium?
    (a) Vitamin A
    (b) Vitamin D
    (c) Vitamin B
    (d) Vitamin C

    Answer: (b)

33. The outermost layer of sun is called
    (a) Lithosphere
    (b) Chromosphere
    (c) Photosphere
    (d) Corona
    Answer: (b)

34. Constantly running system - program processes are known as
    (a) Daemons
    (b) Processes
    (c) Process Block
    (d) Process Control Block
    Answer: (a)

35. Which of the following vitamins contain nitrogen?
    (a) Vitamin A
    (b) Vitamin B
    (c) Vitamin C
    (d) Vitamin D
    Answer: (b)

36. Science dealing with study of soil is called
    (a) Pedology
    (b) Pedagogy
    (c) Ecology
    (d) Pomology
    Answer: (a)

37. With which sport is P.V. Sindhu associated?
    (a) Shooting
    (b) Boxing
    (c) Swimming
    (d) Badminton
    Answer: (d)

38. In hydel power station, the motion produced in turbines is due to
    (a) flow of water
    (b) burning of coal
    (c) burning of diesel
    (d) production of steam
    Answer: (a)

39. Which of the following gases is known as "Laughing Gas"?
    (a) Nitrous oxide
    (b) Nitrogen peroxide
    (c) Nitrogen
    (d) Nitric oxide

    Answer: (a)

40. The 'solid waste' is also known as
    (a) Sedge
    (b) Toxic waste
    (c) Sludge
    (d) Scrubber

    Answer: (c)

41. If waste materials contaminate the source of drinking water, which of the following diseases will spread?
    (a) Scurvy
    (b) Typhoid
    (c) Malaria
    (d) Anaemia

    Answer: (b)

42. Kalamkari painting refers to
    (a) A hand painted cotton textile in South-India
    (b) A handmade drawing on bamboo h[illegible]n North-East India
    (c) A block painted woollen cloth in Western [illegible]alayan region of India
    (d) A hand painted decorative silk cloth in North-Western India

    Answer: (a)

43. Which of the following areas make the largest contribution to national income in India?
    (a) Industry
    (b) Services
    (c) Agriculture
    (d) Mining

    Answer: (b)

44. Chachnama records the history of which conquest?
    (a) Kushanas
    (b) Hunas
    (c) Arabs
    (d) Greeks

    Answer: (c)

45. The deepest trench of the Indian Ocean is
    (a) Java trench
    (b) Aleutian trench
    (c) Atacama trench
    (d) Tizard trench

    Answer: (a)

46. "Abhinav Bharat" was founded in 1904 as a secret society of revolutionaries by :
    (a) Damodar Chapekar
    (b) V. D. Savarkar
    (c) Praffula Chaki
    (d) Khudiram Bose

    Answer: (b)

47. Ideas of welfare state are contained in
    (a) Fundamental Rights
    (b) Directive Principles of State Policy
    (c) Preamble of the Constitution
    (d) Part VII

    Answer: (b)

48. Which of the following is called the 'Land of the Golden Pagoda'?
    (a) Myanmar
    (b) China
    (c) Japan
    (d) North Korea

    Answer: (a)

49. Which Indian author in May 2016 won the prestigious 2016 Scholastic Asian Book Award for her work 'Codex : The Lost Treasure of the Indus' ?
    (a) Anita Desai
    (b) Aditi Krishna Kumar
    (c) Rupa Iyer
    (d) Preethi Nair

    Answer: (b)

50. Pneumonia is a bacterial disease caused by the type of bacteria called _____
    (a) Bacilli
    (b) Cocci
    (c) Sprilli
    (d) Vibrio

    Answer: (b)

Quantitative Aptitude

51. A and B undertake a piece of work for Rs. 250 . A alone can do that work in 5 days and B alone can do that work in 15 days . With the help of C, they finish the work in 3 days . If every one gets paid in proportion to work done by them, the amount C will get is

(a) Rs.50

(b) Rs.100

(c) Rs.150

(d) Rs.200

Answer: (a)

52. Dealer purchased an article for Rs. 900 and fixes the list price in such a way that he gains 20% after allowing 10% discount, then the list price is

(a) Rs.1180

(b) Rs.1080

(c) Rs.1200

(d) Rs.1100

Answer: (c)

53. Cost price of 28 articles is equal to Sale price of 21 articles, then percentage of profit is

(a) 12%

(b) 331/3 %

(c) 20%

(d) 22%

Answer: (b)

55. If the speed of a boat in still water is 20 km/hr and the speed of the current is 5 km/hr, then the time taken by the boat to travel 100 km with the current is

(a) 2 hrs

(b) 3 hrs

(c) 4 hrs

(d) 7 hrs

Answer: (c)

56. If a sum of money doubles itself in 8 yrs, then the interest rate in percentage is ?

(a) 8 ½%

(b) 10%

(c) 10 ½ %

(d) 12 ½ %

Answer: (d)

57. If (x - 5)2 + (y - 2)2 + (z - 9)2= 0 , then value of (x + y - z) is

(a) 16

(b) -1

(c) -2

(d) 12

Answer: (c)

59. Points P , Q and R are on a circle such that ∠PQR = 40° and ∠QRP = 60° . Then the subtended angle by arc QR at the centre is

(a) 80°

(b) 120°

(c) 140°

(d) 160°

Answer: (d)

61. If α + β = 90° and α:β = 2:1, then the ratio of cosα to cosβ is

(a) 1:√3

(b) 1:3

(c) 1:√2

(d) 1:2

Answer: (a)

62. The least number to be added to 13851 to get a r ber which is divisible by 87 is

(a) 18

(b) 43

(c) 54

(d) 69

Answer: (d)

63. Two numbers are in the ratio 3:5. If 6 is added to both of them, the ratio becomes 2:3. The numbers are

(a) 21 and 35

(b) 30 and 50

(c) 24 and 40

(d) 18 and 30

Answer: (d)

64. The average weight of 10 parcels is 1.7 kg. Addition of another new parcel reduces the average weight by 60 gram. What is the weight , in kg, of the new parcel?

(a) 1.04

(b) 1.08

(c) 1.4

(d) 1.8

Answer: (a)

67. In an isosceles triangle ΔABC, AB = AC and ∠A = 80°. The bisector of ∠B and ∠C meet at D. The ∠BDC is equal to

(a) 90 o

(b) 100 o

(c) 130 o

(d) 80 o

Answer: (c)

68. The length of a chord which is at a distance of 12 cm from the centre of a circle of radius 13 cm is

(a) 10 cm

(b) 5 cm

(c) 6 cm

(d) 12 cm

Answer: (a)

69. If Θ is positive acute angle and 7cos2Θ + 3 sin2Θ = 4, then the value of θ is

(a) 60 o

(b) 30 o

(c) 45 o

(d) 90 o

Answer: (a)

70. Radius of cross section of a solid right circular cylindrical rod is 3.2 dm. The rod is melted and 44 equal solid cubes of side 8 cm are formed. The length of the rod is (Take Π = 22/7)

(a) 56 cm

(b) 7 cm

(c) 5.6 cm

(d) 0.7 cm

Answer: (b)

71. The angles of elevation of the top of a tower from two points at a distance of 4 m and 9 m from the base of the tower and in the same straight line with it are complementary. The height of the tower is

(a) 4 m

(b) 7 m

(c) 9 m

(d) 6 m

Answer: (d)

72. Study the histogram of marks (in Mathematics) distribution of 50 students of class IX and answer the following questions.
The number of students who have secured marks less than 60 is

(a) 12
(b) 15
(c) 33
(d) 7

Answer: (c)

73. Study the histogram of marks (in Mathematics) distribution of 50 students of class IX and answer the following questions.
The average marks of the students are

(a) 53.2
(b) 45.5
(c) 60.2
(d) 55.5

Answer: (a)

74. Study the histogram of marks (in Mathematics) distribution of 50 students of class IX and answer the following questions.
The number of students who have scored between 39 and 80 is

(a) 22
(b) 18
(c) 37
(d) 15

Answer: (a)

75. Study the histogram of marks (in Mathematics) distribution of 50 students of class IX and answer the following questions.
Percentage of students who have secured marks more than 59 is

(a) 13
(b) 17
(c) 34
(d) 26

Answer: (c)

English Comprehension

76. In the following question, out of the four alternatives, choose the word which best expresses the meaning of the given word and click the button corresponding to it. EMANCIPATE

(a) LIFT
(b) RISE
(c) RAISE
(d) LIBERATE

Answer: (d)

77. In the following question, out of the four alternatives, choose the word which is opposite in meaning to the given word and click the button corresponding to it. TREACHERY

(a) BETRAYAL

(b) MULING

(c) LOYALTY

(d) REBELLION

Answer: (c)

78. Four words are given, out of which only one word is spelt correctly. Choose the correctly spelt word and click the button corresponding to it.

(a) Ajournment

(b) Adjournmant

(c) Ajornment

(d) Adjournment

Answer: (d)

79. In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the “No error” option. Some of the richest (A) / business magnate (B) / live in Mumbai. (C) / No Error (D)

(a) A

(b) B

(c) C

(d) D

Answer: (b)

80. In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the “No error” option. This is an urgent (A) / matter which may admit (B) / of few delays. (C) / No error (D)

(a) A

(b) B

(c) C

(d) D

Answer: (c)

81. In the following questions, one part of the sentence may have an error. Find out which part of the sentence has an error and click the button corresponding to it. If the sentence is free from error, click the “No error” option. Outside, the rain beats down (A) / in floods and the sea gives forth (B) / a sound like an alarm bells. (C) / No error (D)

(a) A

(b) B

(c) C

(d) D

Answer: (c)

82. The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it. I hope you know that, once you have signed the contract, you will not be able to _____ .

(a) back in

(b) back out

(c) back up

(d) back at

Answer: (b)

83. The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it. Your opening paragraph should _____ the reader's attention.

(a) attest

(b) address

(c) attract

(d) affect

Answer: (c)

84. The sentences given with blanks are to be filled with an appropriate word(s). Four alternatives are suggested for each question. For each question, choose the correct alternative and click the button corresponding to it. When I visited him last evening we talked the matter _____ .

(a) through

(b) away

(c) off

(d) over

Answer: (d)

85. 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 and click the button corresponding to it. A Man of letters

(a) Letter - writer

(b) Proof - reader

(c) Postman

(d) Scholar

Answer: (d)

86. 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 and click the button corresponding to it. Under a cloud

(a) Shocked

(b) Sad

(c) Sick

(d) Confused

Answer: (b)

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 and click the button corresponding to it. Bear in mind

(a) Respect

(b) Observe

(c) Remember

(d) Pretend to listen

Answer: (c)

88. Out of the four alternatives, choose the one which can be substituted for the given words/ sentences and click the button corresponding to it. Chief of a group of workmen.

(a) Chieftain

(b) Engineer

(c) Foreman

(d) Middleman

Answer: (c)

89. Out of the four alternatives, choose the one which can be substituted for the given words/ sentences and click the button corresponding to it. Bitter quarrel between two families existing for a long period.

(a) Siege

(b) Feud

(c) Battle

(d) War

Answer: (b)

90. Out of the four alternatives, choose the one which can be substituted for the given words/ sentences and click the button corresponding to it. Animals without a backbone.

(a) Marsupials

(b) Mammals

(c) Vertebrate

(d) Invertebrates

Answer: (d)

Passage — for questions 96–100

> A passage is given with 5 questions following it. Read the passage carefully and choose the best answer to each question out of the four alternatives and click the button corresponding to it. Modern civilisation is completely dependent on energy, which has therefore to be abundant and also economical. About 85% of the world's energy is supplied by oil, coal and natural gas while nuclear, hydro, wind and solar power and biomass supply the rest. Coal, nuclear and hydro are used primarily to generate electricity while natural gas is widely used for heating. Biomass is used both for heating and cooking. The wind and solar power is the future's hope as they are sustainable energy sources. Oil powers almost all machines that move and that makes oil uniquely versatile. Oil powered airplanes carry 500 people across the widest oceans at nearly the speed of sound. Oil powered machines produce and transport food. Oil powered machines are ubiquitous. Clearly, we live in the age of oil but it is drawing to a close. According to data available if oil production remains constant until it's gone, there is enough to last 42 years. Oil wells will produce less as they become depleted, which will make it impossible to keep production constant. Similarly natural gas and coal will last another 61 years and 133 years respectively. Naturally, as they become scarce, they become expensive, leading to a worldwide energy crisis. If we are to survive on this planet, we have to make a transition to sustainable energy sources. The transition may be willy-nilly or planned - the choice is ours. The dawning era of limited and expensive energy will be very difficult for everyone on earth but will be even more difficult if it is not anticipated. It is of utmost importance that the public and policymakers understand the global energy crisis and act in tandem to ensure that the species 'homo sapiens' does not become extinct.

96. The theme of the passage is
    (a) Changing Lives
    (b) Looming Energy Crisis
    (c) Energy Resources
    (d) Power in Today's world

    Answer: (b)

97. Biomass is an energy source used in
    (a) agriculture
    (b) industry
    (c) homes
    (d) offices

    Answer: (c)

98. The synonym for Ubiquitous is
    (a) Omnipotent
    (b) Omnifarious
    (c) Omniscient
    (d) Omnipresent

    Answer: (d)

99. The energy sources of the future are
    (a) nuclear and hydro power
    (b) coal and natural gas
    (c) wind and solar power
    (d) oil and biomass

    Answer: (c)

100. The survival of mankind will depend on
    (a) maximum use of available energy resources
    (b) transition to sustainable energy resources
    (c) regulation placed on energy consumers
    (d) keeping the level of energy production constant

    Answer: (b)

Answer key

Answer key as marked in the Staff Selection Commission's response sheet. "—" means the sheet did not show it clearly.

General Intelligence and Reasoning

1	**(c)**	2	**(a)**	3	**(b)**	4	**(a)**	5	**(d)**	6	**(c)**	7	**(d)**	8	**(b)**
9	**(c)**	10	**(b)**	11	**(d)**	12	**(d)**	13	**(b)**	14	**(d)**	15	**(b)**	16	**(d)**
17	**(a)**	18	**(b)**	25	**(a)**										

General Awareness

26	**(c)**	27	**(c)**	28	**(a)**	29	**(d)**	30	**(b)**	31	**(a)**	32	**(b)**	33	**(b)**
34	**(a)**	35	**(b)**	36	**(a)**	37	**(d)**	38	**(a)**	39	**(a)**	40	**(c)**	41	**(b)**
42	**(a)**	43	**(b)**	44	**(c)**	45	**(a)**	46	**(b)**	47	**(b)**	48	**(a)**	49	**(b)**
50	**(b)**														

Quantitative Aptitude

51	**(a)**	52	**(c)**	53	**(b)**	55	**(c)**	56	**(d)**	57	**(c)**	59	**(d)**	61	**(a)**
62	**(d)**	63	**(d)**	64	**(a)**	67	**(c)**	68	**(a)**	69	**(a)**	70	**(b)**	71	**(d)**
72	**(c)**	73	**(a)**	74	**(a)**	75	**(c)**								

English Comprehension

76	**(d)**	77	**(c)**	78	**(d)**	79	**(b)**	[illegible]	**(c)**	81	**(c)**	82	**(b)**	83	**(c)**
84	**(d)**	85	**(d)**	86	**(b)**	87	**(c)**	[illegible]	**(c)**	89	**(b)**	90	**(d)**	96	**(b)**
97	**(c)**	98	**(d)**	99	**(c)**	100	[illegible]								