PREVIOUS YEAR PAPER

SSC CGL 2017 Tier I — 12 August 2017, Shift 1

SSC CGL · 12 August 2017 · Shift 1

83 of the paper's 96 questions · +2 for a correct answer, −0.5 for a wrong one · 60 minutes

Left out of the original paper: 13 (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 12 August 2017, Shift 1. 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-2017-tier-1-12-aug-shift-1/

General Intelligence and Reasoning

1. In the following question, select the odd letter pair from the given alternatives.
   (a) BN – P
   (b) GI – R
   (c) LM – Y
   (d) TA – U
   Answer: (b)

2. In the following question, select the odd number group from the given alternatives.
   (a) (143, 64)
   (b) (232, 49)
   (c) (719, 289)
   (d) (462, 169)
   Answer: (d)

3. Arrange the given words in the sequence in which they occur in the dictionary. 1. Exacts 2. Exotic 3. Exactly 4. Exacerbate 5. Exhaust
   (a) 43152
   (b) 43251
   (c) 53421
   (d) 54312
   Answer: (a)

4. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. FK27, LQ64, RW125, ?
   (a) CX216
   (b) XB216
   (c) XC216
   (d) YB343
   Answer: (c)

5. In the following question, select the missing number from the given series. 19, 11, 13, 16, 15, 17, 13, 19, 21, ?

(a) 10

(b) 11

(c) 12

(d) 15

Answer: (a)

6. Punit starting from point R walked straight 10 km west, then turned right and walked 12 km and again turned right and walked straight 7 km. In which direction is he from point R?

(a) North-East

(b) North-West

(c) South-East

(d) South-West

Answer: (b)

7. Ratio of present ages of P and Q is 9 : 4. The difference between their ages is 20 years. What will be the sum (in years) of their ages after 10 years?

(a) 62

(b) 66

(c) 72

(d) 76

Answer: (c)

8. In the following question, from the given alternative words, select the word which cannot be formed using the letters of the given word. RELEASABLE

(a) EASE

(b) NOBLE

(c) SEASON

(d) SOLAR

Answer: (c)

9. In a certain code language, "PUNISHED" is written as "288" and "TAILOR" is written as "225". How is "RELEASED" written in that code language?

(a) 207

(b) 237

(c) 225

(d) 243

Answer: (a)

10. In the following question, by using which mathematical operators will the expression become correct? 15 _ 3 _ 4 _ 20

(a) x, ÷ and >

(b) ÷, x and <

(c) ÷, x and =

(d) +, x and =

Answer: (c)

11. If 19 $ 7 = 312 and 23 $ 9 = 448, then 31 $ 11 = ?

(a) 231

(b) 441

(c) 641

(d) 840

Answer: (d)

14. In the following question below are given some statements followed by some conclusions. Taking the given statements to be true even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusion logically follows the given statements. Statements: I. All stars twinkle. II. All satellites twinkle. Conclusions: I. Some stars are satellites. II. Some stars twinkle.

(a) Only conclusion (I) follows.

(b) Only conclusion (II) follows.

(c) Neither conclusion (I) nor conclusion (II) follo

(d) Both conclusions follow.

Answer: (b)

22. Which of the following pair/pairs is/are INCORRECT? I. Golden revolution - Fruits production II. Blue revolution - Increasing production of fertilizers III. Yellow revolution - For the production of eggs

(a) Only I

(b) Only II

(c) Both I and II

(d) Both II and III

Answer: (d)

23. MTNL comes under which of the following category?

(a) Navratna

(b) Maharatna

(c) Mini Ratna

(d) None option is correct

Answer: (a)

24. Which of the following right has been removed from fundamental rights and converted to a simple legal right?
    (a) Right to life and personal liberty
    (b) Right to property
    (c) Right to education
    (d) Right to freedom of religion

    Answer: (b)

25. Which of the following does not come under Fundamental Duty?
    (a) To safeguard public property
    (b) To protect and improve the natural environment
    (c) To promote harmony
    (d) To protect freedom of speech and expression

    Answer: (d)

General Awareness

26. Which emperor wrote the play 'Nagananda' in Sanskrit language?
    (a) Prabhakaravardhana
    (b) Harshavadhana
    (c) Chandragupta II
    (d) Bindusara

    Answer: (b)

28. The boundary between Earth's crust a[illegible]ant[illegible]s ____.
    (a) Moho discontinuity
    (b) Lehman discontinuity
    (c) Conrad discontinuity
    (d) Gutenberg discontinuity

    Answer: (a)

29. Doldrums pressure belts lies in between which of the following latitudes?
    (a) 5o N to 5o S
    (b) 35o to 60o N and S
    (c) 25o to 35o N and S
    (d) 35o to 45o N and S

    Answer: (a)

30. Which component in tobacco makes it harmful for human consumption?
    (a) Morphine
    (b) Nicotine
    (c) Heroin
    (d) None of these

    Answer: (b)

31. What is full form of BOD?
    (a) Biological Oxygen Deficit
    (b) Biological Oxygen Difference
    (c) Biological Oxygen Demand
    (d) Biological Oxygen Distribution

    Answer: (c)

32. Alveoli is related to which of the following system of human body?
    (a) Circulatory system
    (b) Excretory system
    (c) Reproductive system
    (d) Respiratory system

    Answer: (d)

33. What is the SI unit of intensity of sound?
    (a) Decible
    (b) Newton
    (c) Heartz
    (d) Tesla

    Answer: (a)

34. Which colour is formed when Blue and Green are [illegible]ed?
    (a) Cyan
    (b) Brown
    (c) Black
    (d) Violet

    Answer: (a)

35. In computer terminology, what is the full form of FTP?
    (a) Final Transfer Position
    (b) File Transfer Position
    (c) File Transfer Packet
    (d) File Transfer Protocol

    Answer: (d)

36. What is an exothermic reaction?
    (a) Reaction in which heat is released.
    (b) Reaction in which heat is absorbed.
    (c) Reaction in which neither heat is released nor absorbed.
    (d) None of these

    Answer: (a)

37. What are the main components of Brass Alloy?
(a) Copper and Zinc
(b) Copper and Strontium
(c) Copper, Zinc and Nickel
(d) Copper and Nickel
Answer: (a)

38. Which among the following is national water animal of India?
(a) Crocodile
(b) Turtle
(c) Alligator
(d) Gangetic Dolphin
Answer: (d)

39. Pradhan Mantri Surakshit Matritwa Abhiyan provides facility of free health check-up and required treatment on _____ day of every month.
(a) 1st
(b) 9th
(c) 15th
(d) 30th
Answer: (b)

40. What was invented by J. B. Dunlop?
(a) Airplane
(b) Car
(c) Rubber Tyre
(d) Rubber Boot
Answer: (b)

41. At which of the following stadium Sachin Tendulkar scored his 100th international century?
(a) Wankhede Stadium
(b) Sher-e-Bangla Stadium
(c) Shahid Chandu Stadium
(d) Barabati Stadium
Answer: (b)

42. Who amongst the following is a renowned vocalist?
(a) Kaushalaya Reddy
(b) Manjit Bawa
(c) Raja Ravi Verma
(d) Pt. Jasraj
Answer: (d)

43. Which actress has been awarded with 64th National film Awards 2017?
    (a) Surabhi CM
    (b) Tapasee Pannu
    (c) Trisha Krishnan
    (d) Anushka Shetty

    Answer: (a)

44. What is the name of the autobiography of Sachin Tendulkar?
    (a) Numbers Do Lie
    (b) Playing it my way
    (c) Once upon a Time
    (d) What is Remembered

    Answer: (b)

45. India recently notified the Third protocol to amend Double Taxation Avoidance Agreement with which of the following countries?
    (a) China
    (b) Vietnam
    (c) Singapore
    (d) Malaysia

    Answer: (c)

47. If 56M4 is completely divisible by 11, then what is the value of M?
    (a) 0
    (b) 1
    (c) 3
    (d) 5

    Answer: (d)

48. A and B can together do a piece of work in 10 days. If A works with twice of his efficiency and B works with an efficiency 1/3rd less than his efficiency, then the work gets completed in 6 days. In how many days can A and B do the work alone respectively?
    (a) 40/3, 40
    (b) 20/3, 20
    (c) 30, 20/3
    (d) 50/3, 25

    Answer: (a)

50. What will be the net discount (in %) of two successive discounts of 15% and 35%?
    (a) 44.75
    (b) 51.25
    (c) 55.25
    (d) 56.25

    Answer: (a)

Quantitative Aptitude

51. A company, at the time of inflation reduced the staff in the ratio 5 : 3 and average salary per employee is increased in the ratio 7 : 8. By doing so, the company saved Rs 55000. What was the initial expenditure (in Rs) of company?

(a) 155000
(b) 160000
(c) 175000
(d) 215000

Answer: (c)

52. a, b and c are 3 values, such that a + b = 5, b + c = 7.5 and c + a = 8.5. What will be the average of these values?

(a) 1.5
(b) 3
(c) 3.5
(d) 4.5

Answer: (c)

53. Due to increase of 33.33% in the price of apples, a customer can purchase 4 apples less for Rs 16. What is the original price (in paise) of an apple?

(a) 100
(b) 125
(c) 150
(d) 400/3

Answer: (a)

54. Due to increase of k% in the side, the area of a square increases by 69%. What is the value of k?

(a) 30
(b) 33
(c) 34.5
(d) 35

Answer: (a)

55. A starts from a point at a speed of 30 metre/second. After 3 seconds, B starts chasing A from the same point with a speed of 50 metre/second. What will be the total distance (in metres) travelled by A and B before A is caught by B?

(a) 360
(b) 450
(c) 600
(d) 720

Answer: (b)

56. The difference between compound interest and simple interest on a sum for 2 year at 20% per annum is Rs 200. If the interest is compounded half yearly, then what is the difference (in Rs) between compound and simple interest for 1st year?

(a) 50

(b) 75

(c) 100

(d) 150

Answer: (a)

57. If x(2x + 3) = 90 and 7y-1/2 + 2y-1/2 = y1/2 (x and y are positive numbers), then what is the value of x2 + y2?

(a) 45

(b) 109

(c) 117

(d) 126

Answer: (c)

58. If x/y = 4/9, then what is the value of (7×2 – 19xy + 11y2)/y2 ?

(a) 59/81

(b) 100/27

(c) 319/81

(d) 913/81

Answer: (c)

59. If x – 3 + [1/(x – 3)] = 4, what is the valu[illegible]f (x [illegible]3 + [1/(x – 3)3]?

(a) 14

(b) 18

(c) 52

(d) 76

Answer: (c)

60. If x2+ y2 + z2 = xy + yz + zx, then what is the value of (7x + 3y – 5z)/5x?

(a) 0

(b) 1

(c) 5

(d) 33/5

Answer: (b)

61. The length of diagonal BD of a parallelogram ABCD is 36 cm. P and Q are the centroids of triangle ABC and triangle ADC respectively. What is the length (in cm) of PQ?

(a) 6

(b) 9

(c) 12

(d) 18

Answer: (c)

63. If an equilateral triangle has side 12 cm, then what is the difference (in cm) between the circumradius and inradius?

(a) $2\sqrt{2}$

(b) $3\sqrt{2}$

(c) $2\sqrt{3}$

(d) $3\sqrt{3}$

Answer: (c)

64. If sum of the areas of the circumcircle and the incircle of an equilateral triangle is 770 cm2, then what is the area (in cm2) of the triangle?

(a) $125\sqrt{3}$

(b) $147\sqrt{3}$

(c) $156\sqrt{3}$

(d) $169\sqrt{3}$

Answer: (b)

65. What is the value of $\sin(-\pi/3) + \cos(-\pi/6)$?

(a) 0

(b) 1

(c) 2

(d) 3

Answer: (a)

66. If θ is acute angle and $\tan\theta - \cot\theta = 0$, then what is the value of $\tan^{26}\theta + \cot^{100}\theta$?

(a) – 2

(b) 0

(c) 1

(d) 2

Answer: (d)

67. If $\sin 3\theta \sec 2\theta = 1$, then what is the value of $[3\tan^2(5\theta/2) - 1]$?

(a) 0

(b) 1

(c) 2

(d) 3

Answer: (c)

68. If 18% of M.B.B.S. who have filled the form are from XYZ University, then how many M.B.B.S. candidates from XYZ University have filled the form?

(a) 1512000

(b) 1224000

(c) 1440000

(d) None of these

Answer: (b)

69. What is the absolute difference in the B.Tech.'s who have filled the form and M.B.A.'s who were present in the examination?

(a) 3500000

(b) 3000000

(c) 4050000

(d) 4000000

Answer: (c)

70. 50% of others who have filled the form are B. Arch. and 45% of others who were present in the exam are B. Arch. How many B. Arch. candidates did not gave the exam?

(a) 995000

(b) 685000

(c) 430000

(d) 756000

Answer: (a)

71. Which highest qualification accounted for most number of absentees?

(a) B.A.

(b) Others

(c) B.com.

(d) None of these

Answer: (d)

72. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'. If it would (1)/ rain, they will (2)/not come (3)/ No Error (4)

(a) 1

(b) 2

(c) 3

(d) 4

Answer: (a)

73. In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'. Organic pulses are so popular today (1)/ that many people wonder (2)/ how they ever lived without them. (3)/ No Error (4)

(a) 1

(b) 2

(c) 3

(d) 4

Answer: (c)

74. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option. My father did not approve _____ the plan of travelling to Uttarakhand because of bad weather there.

(a) of

(b) one

(c) to

(d) with

Answer: (a)

75. In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option. I settled _____ Canada last year.

(a) at

(b) in

(c) off

(d) on

Answer: (b)

English Comprehension

76. In the following question, out of the four alternatives, select the word similar in meaning to the word given. Abeyance

(a) Commencement

(b) Perjure

(c) Condone

(d) Suspension

Answer: (d)

77. In the following question, out of the four alternatives, select the word similar in meaning to the word given. Dauntless

(a) Brave

(b) Insane

(c) Playful

(d) Ugly

Answer: (a)

78. In the following question, out of the four alternatives, select the word opposite in meaning to the word given. Clandestine

(a) Abrupt

(b) Illicit

(c) Open

(d) Wary

Answer: (c)

79. In the following question, out of the four alternatives, select the word opposite in meaning to the word given. Intrepid

(a) Greed

(b) Kind

(c) Meek

(d) Sigh

Answer: (c)

80. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. To steal a march

(a) To act in a foolish way

(b) To break something

(c) To outshine

(d) To see a hidden meaning

Answer: (c)

81. In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. In a jiffy

(a) Fail to win appreciation

(b) In an appropriate manner

(c) Something that is done very quickly

(d) To fall in love

Answer: (c)

82. Improve the bracketed part of the sentence. (After he arrived) from office, he goes to gym.

(a) After he had being arriving

(b) After he had arrived

(c) After he arrives

(d) No improvement

Answer: (c)

83. Improve the bracketed part of the sentence. When I first saw Ankit, he (was playing) cricket.

(a) had played

(b) had been playing

(c) played

(d) No improvement

Answer: (d)

84. In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. Mania for travel

(a) Dromomania

(b) Hypomania

(c) Megalomania

(d) Nymphomania

Answer: (a)

85. In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. One who has suddenly gained new wealth, power or prestige

(a) Egotist

(b) Imposter

(c) Parvenu

(d) Scullery

Answer: (c)

86. In the following question, four words are given out of which one word is incorrectly spelt. Select the incorrectly spelt word.

(a) Acquiescence

(b) Alienate

(c) Belligerent

(d) Sabbotage

Answer: (d)

87. In the following question, four words are given out of which one word is incorrectly spelt. Select the incorrectly spelt word.

(a) Alluminium

(b) Cemetery

(c) Recommend

(d) Satellite

Answer: (a)

88. The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P: It isn't bragging about how great you are. Q: It's not about thinking you're perfect because nobody is but knowing that you're worthy of being love and accepted. R: Self esteem is how much you value yourself and how important you think you are. S: It's how you see yourself and feel about your achievements.

(a) SQRP

(b) RQSP

(c) RSPQ

(d) SRQP

Answer: (c)

89. The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph. P: Most of them are combinations of hydrogen and carbon in varying proportions. Q: Crude mineral oil comes out of the earth as a thick brown or black liquid with a strong smell. R: It is a complex mixture of many different substances, each with it's own individual qualities. S: Such hydrocarbons are also found in other forms such as bitumen, asphalt and natural gas.

(a) QPRS

(b) PQRS

(c) PQSR

(d) QRPS

Answer: (d)

90. In the following question, 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. He shall have bought a car.

(a) A car was being bought by him.

(b) A car was bought by him.

(c) A car will have been bought by him.

(d) A car would have been bought by him.

Answer: (d)

91. In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct speech. The teacher said to the student, "Have you brought your lunch?"

(a) The student was asked by the teacher about bringing his lunch.

(b) The teacher asked the student if he would be bringing his lunch.

(c) The teacher asked the student if he had brought his lunch.

(d) The teacher asked the student if he has brought his lunch.

Answer: (c)

Passage — for questions 92–96

> In the following questions, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option. Children need to be taught the importance of hygiene early on so that it becomes a _____. Children are the most _____ to hygiene-related disorders like skin issues, rashes, infections, wounds, etc. Teach them early on about what to _____. Teach them that taking a few _____ measures to prevent infections and diseases is _____.

92. importance of hygiene early on so that it becomes a _____

(a) kind

(b) habit

(c) regular

(d) need

Answer: (b)

93. Children are the most _____ to hygiene-related disorders like skin issues, rashes,

(a) innocent

(b) responsible

(c) pliable

(d) susceptible

Answer: (d)

94. Teach them early on about what to _____.

(a) avoid

(b) read

(c) right

(d) learn

Answer: (a)

95. Teach them that taking a few _____ measures
    (a) scientific
    (b) precautionary
    (c) unimportant
    (d) insignificant

    Answer: (b)

96. to prevent infections and diseases is _____.
    (a) optional
    (b) secondary
    (c) voluntary
    (d) imperative

    Answer: (d)

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	**(b)**	2	**(d)**	3	**(a)**	4	**(c)**	5	**(a)**	6	**(b)**	7	**(c)**	8	**(c)**
9	**(a)**	10	**(c)**	11	**(d)**	14	**(b)**	22	**(d)**	23	**(a)**	24	**(b)**	25	**(d)**

General Awareness

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

Quantitative Aptitude

51	**(c)**	52	**(c)**	53	**(a)**	54	**(a)**	55	**(b)**	56	**(a)**	57	**(c)**	58	**(c)**
59	**(c)**	60	**(b)**	61	**(c)**	63	**(c)**	64	**(b)**	65	**(a)**	66	**(d)**	67	**(c)**
68	**(b)**	69	**(c)**	70	**(a)**	71	**(d)**	72	**(a)**	73	**(c)**	74	**(a)**	75	**(b)**

English Comprehension

76	**(d)**	77	**(a)**	78	**(c)**	79	**(c)**	80	**(c)**	81	**(c)**	82	**(c)**	83	**(d)**
84	**(a)**	85	**(c)**	86	**(d)**	87	**(a)**	88	**(c)**	89	**(d)**	90	**(d)**	91	**(c)**
92	**(b)**	93	**(d)**	94	**(a)**	95	**(b)**	96	**(d)**						