PREVIOUS YEAR PAPER

SSC CGL 2020 Tier I — 13 August 2021, Shift 2

SSC CGL · 13 August 2021 · 12:00 PM - 1:00 PM

81 of the paper's 100 questions · +2 for a correct answer, −0.5 for a wrong one · 60 minutes

Left out of the original paper: 19 (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 13 August 2021, 12:00 PM - 1:00 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-2020-tier-1-13-aug-shift-2/

General Intelligence and Reasoning

1. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the letter-cluster that is different.

(a) TVYB

(b) LNQJ

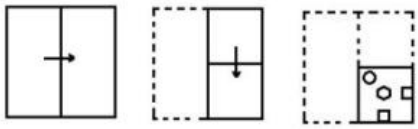
(c) HJMP

(d) BDGT

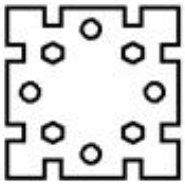
Answer: (c)

2.

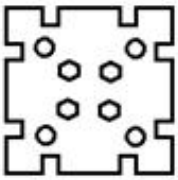
The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



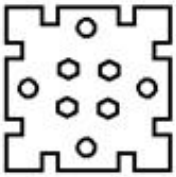
(a)



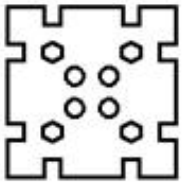
(b)



(c)



(d)



Answer: (d)

3. Seven years from now, Anamika will be as old as Malini was 4 years ago. Srinidhi was born 2 years ago. The average age of Anamika, Malini and Srinidhi 10 years from now will be 33 years. What is the present age of Anamika?

(a) 30 years

(b) 29 years

(c) 28 years

(d) 31 years

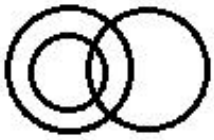
Answer: (c)

4.

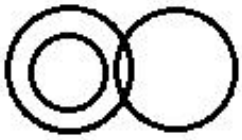
Select the Venn diagram that best illustrates the relationship between the following classes.

Musicians, Females, Daughters

(a)



(b)



(c)

(d)

Answer: (a)

5. Select the option in which the numbers are related in the same way as are the numbers of the following set. (24, 10, 392)

(a) (26, 12, 369)

(b) (27, 15, 480)

(c) (29, 18, 242)

(d) (21, 18, 234)

Answer: (c)

6. Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the number-pair that is different.

(a) 12 : 432

(b) 7 : 147

(c) 8 : 192

(d) 13 : 506

Answer: (d)

7. Select the option that is related to the fourth number in the same way as the first number is related to the second number and the fifth number is related to the sixth number. 17 : 293 :: ? : 488 :: 21 : 445

(a) 22

(b) 20

(c) 28

(d) 24

Answer: (a)

8. Select the option in which the words share the same relationship as that shared by the given pair of words. Resistance : Ohm

(a) Force : Watt

(b) Ampere : Current

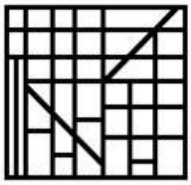
(c) Density : Joule

(d) Angle : Radians

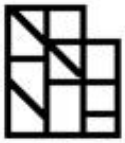
Answer: (d)

9.

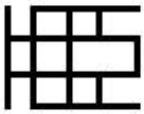
Select the option figure that is embedded in the given figure (rotation is NOT allowed).



(a)



(b)



(c)

(d)

Answer: (b)

10.

Three different positions of the same dice are shown. Select the letter/number that will be on the face opposite to the face having the letter 'U'.

(a)

I

(b)

A

(c)

E

(d)

9

Answer: (c)

11. 'R8S' means 'R is the father of S'. 'R7S' means 'R is the sister of S'. 'R6S' means 'R is the brother of S'. 'R2S' means 'R is the wife of S'. Which of the following expressions represents 'X is the mother of Y'?

(a) X8M2Y

(b) X7M6O2Y

(c) X2M8O2Y

(d) X2M8Y

Answer: (d)

12. Select the option in which the numbers are related in the same way as are the numbers of the following set. (12, 30, 61)

(a) (6, 15, 30)

(b) (18, 45, 91)

(c) (8, 21, 45)

(d) (14, 35, 72)

Answer: (b)

13. Select the correct combination of mathematical signs that can sequentially replace the * signs and balance the equation. 60 * 2 * 3 * 6 * 5 * 43

(a) ÷, ×, +, -, =

(b) ÷, +, ×, =, -

(c) ÷, +, ×, -, =

(d) +, ÷, ×, =, -

Answer: (c)

14. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series. CMQR, BONV, AQKZ, ZSHD, ?

(a) ZVGH

(b) YUEH

(c) YVEI

(d) ZUDH

Answer: (b)

15. Select the number from among the given options that can replace the question mark (?) in the following series. 4, 11, 31, 65, 193, ?

(a) 368

(b) 398

(c) 386

(d) 389

Answer: (d)

16. In a certain code language, 'VIRTUE' is coded as '201' and 'TRAGEDY' is coded as '218'. How will 'PROFANE' be coded in that language?

(a) 570

(b) 342

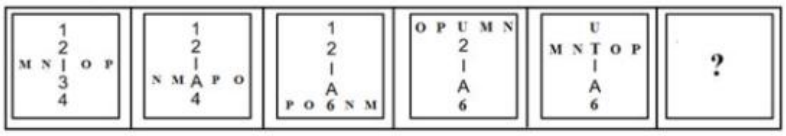
(c) 432

(d) 456

Answer: (b)

17.

Select the figure from among the given options that can replace the question mark (?) in the following series.



(a)

(b)

(c)

(d)

Answer: (a)

18. Four words have been given, out of which three are alike in some manner and one is different. Select the word that is different.

(a) Headway

(b) Growth

(c) Advance

(d) Deteriorate

Answer: (d)

19. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. Statements: All directors are actors. No actor is a producer. All choreographers are directors. Conclusions:
I. No choreographer is producer.
II. Some actors are choreographers.
III. No director is a producer.

(a) All the conclusions follow

(b) Only conclusions II and III follow

(c) Only conclusions I and III follow

(d) Only conclusions I and II follow

Answer: (a)

21. Select the option that is related to the third word in the same way as the second word is related to the first word. Chisel: Sculptor : : Anvil : ?

(a) Blacksmith

(b) Butcher

(c) Carpenter

(d) Surgeon

Answer: (a)

22. Select the combination of letters that when sequentially placed in the blanks of the given series will complete the series. l _ chtlgc _ tlg _ht _ gc _ tlgch

(a) g, h, c, l, h, t

(b) g, h, c, h, l, t

(c) h, g, h, c, l, t

(d) h, h, g, c, l, t

Answer: (a)

23. In a certain code language, 'DOLPHIN' is written as 'EPMPGHM'. How will 'CORDIAL' be written in that language?

(a) EPTDHZK

(b) DPSDHAL

(c) DPSDHZK

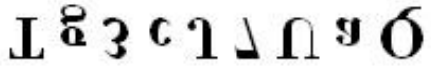
(d) DPSEGZK

Answer: (c)

25.

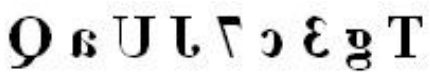
Select the correct mirror image of the given combination when the mirror is placed at 'PQ' as shown.

(a)

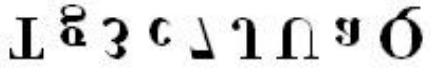


(b)

(c)



(d)



Answer: (c)

General Awareness

1. In which of the following states is the Rowa Wildl[illegible] Sanctuary situated?

(a) Tripura

(b) Haryana

(c) Punjab

(d) Assam

Answer: (a)

2. Veer Surendra Sai was a freedom fighter from:

(a) Odisha

(b) Telangana

(c) Nagaland

(d) Sikkim

Answer: (a)

3. Who among the following persons was elected as the Vice President of Asia Pacific Broadcasting Union in December 2020?

(a) Rakesh Mohan

(b) Hemant Pandey

(c) Bina Agarwal

(d) Shashi Shekhar Vempati

Answer: (d)

5. Pattachitra art form is dedicated to which Lord in Hindu mythology?
   (a) Lord Jagannath
   (b) Lord Ganesha
   (c) Lord Shiva
   (d) Lord Brahma
   Answer: (a)

6. In which of the following years was the Mughal empire established by Babur?
   (a) 1699
   (b) 1526
   (c) 1578
   (d) 1634
   Answer: (b)

7. Mizoram has started ‘Love Brigade’ scheme to fight against which of the following diseases in December 2020?
   (a) Syphilis
   (b) HIV/AIDS
   (c) Chlamydia
   (d) Gonorrhoea
   Answer: (b)

8. Lakshya Sen is associated with which of the following sports?
   (a) Table tennis
   (b) Basketball
   (c) Badminton
   (d) Lawn tennis
   Answer: (c)

9. Who among the following was appointed as the Chief Executive of the health insurance scheme 'Ayushman Bharat' by the National Health Authority in January 2021?
   (a) Rama Mohan Rao Amara
   (b) Anil Ladha
   (c) RS Sharma
   (d) Sanjeev Kumar
   Answer: (c)

10. With which of the following sports is Ruia Gold Cup associated?
   (a) Bridge
   (b) Water polo
   (c) Badminton
   (d) Swimming
   Answer: (a)

11. Who among the following was appointed as the Managing Director and Chief Executive Officer of SBI Cards and Payment Services Ltd. in January 2021?

(a) Rajnish Kumar

(b) Ashwini Kumar Tewari

(c) Swaminathan Janakiraman

(d) Rama Mohan Rao Amara

Answer: (d)

12. Which of the following Articles of the Constitution of India states that there will be a Vice-President of India?

(a) Article 75

(b) Article 56

(c) Article 45

(d) Article 63

Answer: (d)

13. With what do you divide thrust in a liquid to obtain the value of pressure?

(a) Mass

(b) Density

(c) Volume

(d) Area

Answer: (d)

14. With which of the following countries did India s an agreement in February 2021 for the construction of Lalandar (Shatoot) Dam?

(a) Australia

(b) Japan

(c) Afghanistan

(d) Brazil

Answer: (c)

15. Which of the following is NOT used to make toothpaste?

(a) Galena

(b) Silica

(c) Limestone

(d) Aluminium Oxide

Answer: (a)

16. A channel of canal where water is forced to flow against the slope of land by upliftment is called _____.

(a) Groundwater table

(b) Warabandi system

(c) Lift channel

(d) Flow channel

Answer: (c)

17. An elastic wave generated by an impulse such as an earthquake or an explosion is called _____.
(a) tectonic shift
(b) epicentre
(c) seismic wave
(d) sound wave
Answer: (c)

18. Who among the following was the founder of Homeopathy?
(a) FG Hopkins
(b) Selman Waksman
(c) Samuel Hahnemann
(d) Robert Koch
Answer: (c)

20. Who among the following persons was announced as the brand ambassador for the BAFTA (British Academy of Film and Television Arts) 'Breakthrough Initiative' in November 2020?
(a) Akshay Kumar
(b) AR Rahman
(c) Ajay Devgan
(d) Kuldeep Handoo
Answer: (b)

21. Who among the following wrote the novel 'Rangbhoomi: The Arena of Life'?
(a) Abanindranath Tagore
(b) Mahatma Gandhi
(c) Munshi Pemchand
(d) Rabindranath Tagore
Answer: (c)

22. Who among the following assassinated Sir William Hutt Curzon Wyllie in London?
(a) Sukhdev Thapar
(b) Surya Sen
(c) Madan Lal Dhingra
(d) Khudiram Bose
Answer: (c)

23. In which of the following temples will you find Gopurams?
(a) Shiva Temple, Chidambaram
(b) Bhabatarini Temple, Dakshineswar
(c) Dilwara Temple, Mount Abu
(d) Golden Temple, Amritsar
Answer: (a)

25. Where is the corporate office of RBL Bank located?

(a) Srinagar

(b) Patna

(c) Mumbai

(d) Bengaluru

Answer: (c)

Quantitative Aptitude

1.

In a class of 90 students 60% are girls and remaining are boys. Average marks of boys are 63 and that of girls are 70. What are the average marks of the whole class?

(a)

65.3

(b)

66.7

(c)

67.2

(d)

58.9

Answer: (c)

2.

ABCD is a cyclic quadrilateral. Diagonals BD and AC intersect each other at E. If ∠BEC = 138° and ∠ECD = 35°, then what is the measure of ∠BAC?

(a)

133°

(b)

123°

(c)

113°

(d)

103°

Answer: (d)

3.

In a circle with centre O, AD is a diameter and AC is a chord. Point B is on AC such that OB = 7 cm and $\angle OBA = 60^\circ$. If $\angle DOC = 60^\circ$, then what is the length of BC (in cm)?

(a)

5

(b)

7

(c)

9

(d)

3.5

Answer: (b)

4.

The ratio of two numbers A and B is 5 : 8. If 5 is added to each of A and B, then the ratio of A and B becomes 2 : 3. The sum of A and B is:

(a)

42

(b)

78

(c)

65

(d)

91

Answer: (c)

7.

The rate of simple interest for first two years is 8% p.a., for the next 4 years, it is 10% p.a. and for the period beyond 6 years, it is 12% p.a. If a person gets ₹18358.60 as simple interest after 9 years, then how much money (in ₹) did he invest?

(a)

20087

(b)

19674

(c)

19955

(d)

21075

Answer: (c)

9.

Surbhi sold an article for ₹ 176 after giving 12% discount on its marked price. Had she not given any discount; she would have earned a profit of 25%. What is the cost price (in ₹) of the article?

(a)
150

(b)
165

(c)
160

(d)
145

Answer: (c)

12.

If $16x^2 + y^2 = 48$ and $xy = 2$, $x, y > 0$, then the value of $(64x^3 + y^3)$ is:

(a)
320

(b)
300

(c)
240

(d)
340

Answer: (a)

16.

If a five digit number 247xy is divisible by 3, 7 and 11, then what is the value of (2y-8x)?

(a)
11

(b)
17

(c)
6

(d)
9

Answer: (c)

17.

The value of

$$\frac{2\sin^2 30^\circ \tan 60^\circ - 3\cos^2 60^\circ \sec^2 30^\circ}{4\cot^2 45^\circ - \sec^2 60^\circ + \sin^2 60^\circ + \cos^2 90^\circ}$$ is:

(a)

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

(b)

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

(c)

$\frac{2(\sqrt{3}+2)}{3}$

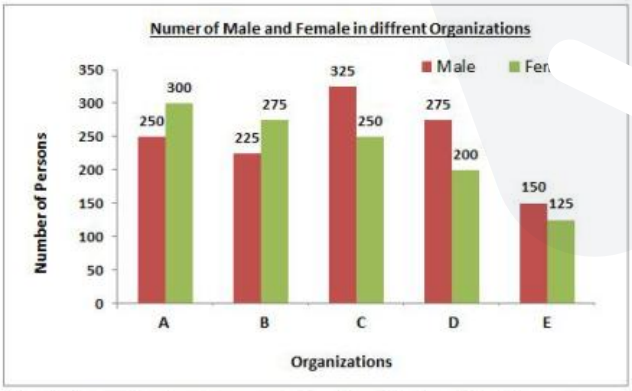
(d)

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

Answer: (a)

19.

Number of male and female members in different organizations A, B, C, D and E are given in the bar graph.



What is the ratio of average number of females in all the five organizations to the average number of males in all the five organizations?

(a)

51 : 49

(b)

49 : 51

(c)

49 : 46

(d)

46 : 49

Answer: (d)

21.

In a triangle ABC AB : AC = 5 : 2, BC = 9 cm. BA is produced to D, and the bisector of the Angle CAD meets BC produced at E. What is the length (in cm) of CE?

(a)
9
(b)
10
(c)
3
(d)
6

Answer: (d)

23.

Eighteen persons working 8 hours a day can complete 3 units of work in 10 days. How many days are required by 25 persons to complete 5 units of work working 6 hours a day?

(a)
12
(b)
16
(c)
10
(d)
20

Answer: (b)

English Comprehension

1. Select the most appropriate synonym of the given word. Prompt

(a) Gradual
(b) Quick
(c) Slow
(d) Lengthy

Answer: (b)

2. Select the INCORRECTLY spelt word.

(a) Sincere
(b) Grievance
(c) Liesure
(d) Seize

Answer: (c)

3. Select the INCORRECTLY spelt word.

(a) Borrow

(b) Alottment

(c) Terrorism

(d) Allowance

Answer: (b)

4. Select the most appropriate ANTONYM of the given word. Hope

(a) Chance

(b) Courage

(c) Doubt

(d) Optimism

Answer: (c)

5. Select the option that can be used as a one-word substitute for the given group of words. A self-governing country or region

(a) Democracy

(b) Monarchy

(c) Autonomy

(d) Anarchy

Answer: (c)

7. Select the option that expresses the given sentence in passive voice. The sunrays burned my face.

(a) My face is burned by the sunrays.

(b) My face has been burned by the sunrays.

(c) My face is being burned by the sunrays.

(d) My face was burned by the sunrays.

Answer: (d)

8. Select the option that can be used as a one-word substitute for the given group of words. A place where coins, medals or tokens are made

(a) Mint

(b) Casting

(c) Mill

(d) Workshop

Answer: (a)

9. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. The woodcutter felled / some trees / with hardly / many effort at all.

(a) many effort at all

(b) some trees

(c) with hardly

(d) The woodcutter felled

Answer: (a)

10. Select the most appropriate meaning of the following idiom. To take a chill pill
    (a) To gulp a tablet for a cold
    (b) To drink cold water
    (c) To calm down
    (d) To ask a doctor for medication

    Answer: (c)

11. Select the most appropriate ANTONYM of the given word. Putrefy
    (a) Destroy
    (b) Contaminate
    (c) Combine
    (d) Decompose

    Answer: (c)

12. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed select 'No improvement required'.

Fierce competition <u>against</u> restaurants has driven up the prices.
    (a) along
    (b) No improvement required
    (c) among
    (d) through

    Answer: (c)

13. Select the most appropriate option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution required'.

"Can you give me <u>so many examples of</u> subordinate clauses?", the teacher asked the class.
    (a) No substitution required
    (b) some many examples of
    (c) some few examples of
    (d) some more examples of

    Answer: (d)

14. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' in your answer. The river appears to have / got its name / from the town nearby.
    (a) got its name
    (b) from the town nearby
    (c) No error
    (d) The river appears to have

    Answer: (c)

15. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.
A. “Excellently well,” said she; “we have everything that we want; I have but one prayer, that we may have a heavy storm of rain to water our plants.”
B. A man who had two daughters married one to a gardener and the other to a potter.
C. Off he went to the potter's home and asked his other daughter how matters were with her.
D. After a while he paid a visit to the gardener's home and asked his daughter how she was, and how it fared with her.

(a) ACDB
(b) DCAB
(c) BDAC
(d) BCDA

Answer: (c)

16. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the right order to form a meaningful and coherent paragraph.
A. While India is home to 75 per cent of the tigers in the world, the Global Tiger Day, as it is also known - sees awareness events organised in the country, as well as in neighbouring Bangladesh and Nepal.
B. Its primary objective is to preserve the natural habitat of the tiger.
C. International Tiger Day was initiated in 2010, at the Saint Petersburg Tiger Summit.
D. This annual event observed on 29 July, aims to create awareness on tiger conservation.

(a) CDBA
(b) CABD
(c) DCBA
(d) BACD

Answer: (a)

17. Select the most appropriate option to fill in the blank. Help from relatives _____ him in difficult times.

(a) approved
(b) supported
(c) allowed
(d) passed

Answer: (b)

18. Select the most appropriate synonym of the given word. Dedicated

(a) Tedious
(b) Boring
(c) Dreary
(d) Committed

Answer: (d)

19. Select the most appropriate meaning of the following idiom. To walk on air
    (a) To be completely free
    (b) To feel very depressed
    (c) To be very rich
    (d) To be very happy

    Answer: (d)

20. Select the most appropriate option to fill in the blank. The interviewer asked Gautam, “Can you tell me what your _____ in life are?”
    (a) frivolities
    (b) trivialities
    (c) determinations
    (d) aspirations

    Answer: (d)

Passage — for questions 21–25

> In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.
>
> Communication is a connection between people sharing information with (1)_____ other. It is important in everyday life, (2)_____ work and nearly any time you interact with other (3)_____. Communication issues don’t always happen (4)_____ of your English level. The truth is, you can know how to speak English (5)_____ knowing how to communicate in Engl

21. Select the most appropriate option to fill in blank nber 1.
    (a) some
    (b) one
    (c) every
    (d) each

    Answer: (d)

22. Select the most appropriate option to fill in blank number 2.
    (a) from
    (b) at
    (c) while
    (d) on

    Answer: (b)

23. Select the most appropriate option to fill in blank number 3.
    (a) people
    (b) animals
    (c) ones
    (d) creatures

    Answer: (a)

24. Select the most appropriate option to fill in blank number 4.
    (a) because
    (b) since
    (c) about
    (d) beside

    Answer: (a)

25. Select the most appropriate option to fill in blank number 5.
    (a) without
    (b) minus
    (c) devoid
    (d) lacking

    Answer: (a)

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	**(d)**	3	**(c)**	4	**(a)**	5	**(c)**	6	**(d)**	7	**(a)**	8	**(d)**
9	**(b)**	10	**(c)**	11	**(d)**	12	**(b)**	13	**(c)**	14	**(b)**	15	**(d)**	16	**(b)**
17	**(a)**	18	**(d)**	19	**(a)**	21	**(a)**	22	**(a)**	23	**(c)**	25	**(c)**		

General Awareness

1	**(a)**	2	**(a)**	3	**(d)**	5	**(a)**	6	**(b)**	7	**(b)**	8	**(c)**	9	**(c)**
10	**(a)**	11	**(d)**	12	**(d)**	13	**(d)**	14	**(c)**	15	**(a)**	16	**(c)**	17	**(c)**
18	**(c)**	20	**(b)**	21	**(c)**	22	**(c)**	23	**(a)**	25	**(c)**				

Quantitative Aptitude

1	**(c)**	2	**(d)**	3	**(b)**	4	**(c)**	7	**(c)**	9	**(c)**	12	**(a)**	16	**(c)**
17	**(a)**	19	**(d)**	21	**(d)**	23	**(b)**								

English Comprehension

1	**(b)**	2	**(c)**	3	**(b)**	4	**(c)**	5	**(c)**	7	**(d)**	8	**(a)**	9	**(a)**
10	**(c)**	11	**(c)**	12	**(c)**	13	**(d)**	14	**(c)**	15	**(c)**	16	**(a)**	17	**(b)**
18	**(d)**	19	**(d)**	20	**(d)**	21	**(d)**	[illegible]	**(b)**	23	**(a)**	24	**(a)**	25	**(a)**