PREVIOUS YEAR PAPER

SSC CGL 2022 Tier I — 3 December 2022, Shift 3

SSC CGL · 3 December 2022 · 2:30 PM - 3:30 PM

86 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: 14 (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 3 December 2022, 2:30 PM - 3:30 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-2022-tier-1-3-dec-shift-3/

General Intelligence and Reasoning

1. Which of the following interchange of mathematical signs would make the given equation correct?
20 ÷ 4 × 8 + 16 − 15 = 11

(a) −, ÷

(b) +, −

(c) ×, ÷

(d) +, ×

Answer: (c)

3.

Which of the following numbers will replace the question mark (?) in the given series?

$\frac{1}{2}, \frac{3}{4}, ?, \frac{5}{4}$

(a) 1

(b) $\frac{1}{4}$

(c) $\frac{3}{4}$

(d) $\frac{2}{3}$

Answer: (a)

4. Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term. 25 : 264 :: 31 : ? :: 49 : 456

(a) 312

(b) 314

(c) 297

(d) 961

Answer: (a)

5. In a certain code language, 'ESCAPE' is written as '49' and 'PRISON' is written as '91'. How will 'FREEDOM' be written in that language?

(a) 66

(b) 59

(c) 64

(d) 55

Answer: (a)

6. What should come in place of the question mark (?) to complete the following letter series? F, E, I, G, L, I, O, ?

(a) I

(b) J

(c) L

(d) K

Answer: (d)

7. Select the option that represents the correct order of the given words as they would appear in an English dictionary. 1- Pardoner 2- Parenthetical 3- Parental 4- Pardon 5- Parenthesis

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

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

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

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

Answer: (c)

8. Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term. 11 : 94 :: 23 : ? :: 18 : 150

(a) 190

(b) 199

(c) 129

(d) 109

Answer: (a)

9. Based on the position in the English alphabetical order, three of the following letterclusters are alike in some manner and one is different. Select the odd letter-cluster.

(a) IGMJ

(b) SPVT

(c) DBHE

(d) NLRO

Answer: (b)

10. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation. 25 * 4 * 6 * 2 * 17

(a) −, +, ×, =

(b) +, −, =, +

(c) +, −, ÷, =

(d) +, −, ×, =

Answer: (d)

11. Select the set in which the numbers are related in the same way as are the numbers of the following set. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g., 13 – Operations on 13 such as adding / subtracting /multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed). (0.20, 5, 25) (0.083, 12, 144)

(a) (0.240, 4, 16)

(b) (0.143, 6, 36)

(c) (0.056, 18, 289)

(d) (0.063, 16, 256)

Answer: (d)

12. 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: Some pens are books. All books are compasses. Some compasses are pins. Conclusions:
I. Some compasses are pens.
II. All compasses are pens.
III. Some pins are books.
IV. Some compasses are books.

(a) Only conclusions I and II follow

(b) Only conclusions II and III follow

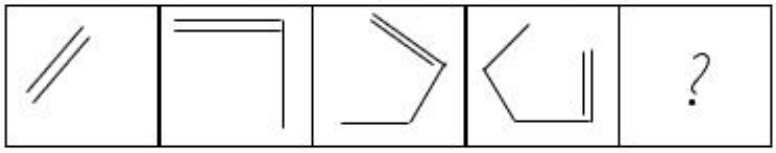
(c) Only conclusions I and IV follow

(d) Only conclusions III and IV follow

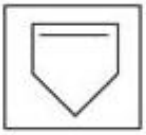
Answer: (c)

13.

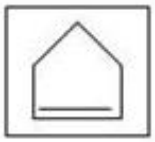
Select the figure that will come next in the following figure series.



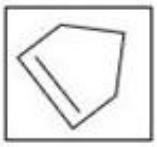
(a)



(b)



(c)

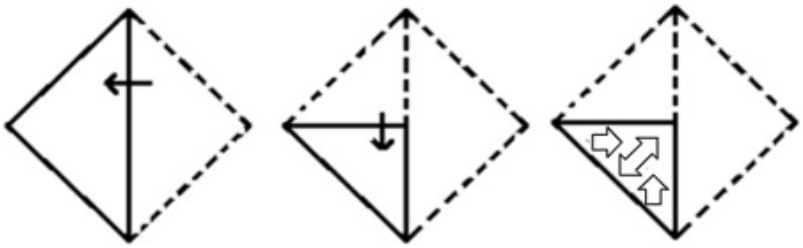


(d)

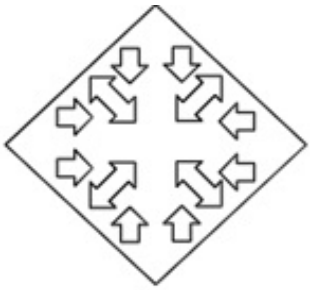
Answer: (d)

14.

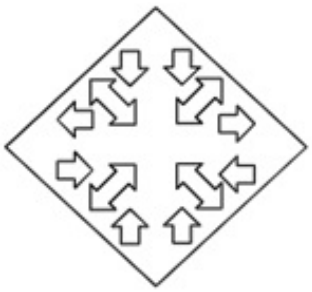
A paper is folded and cut as shown below. How will it appear when unfolded?



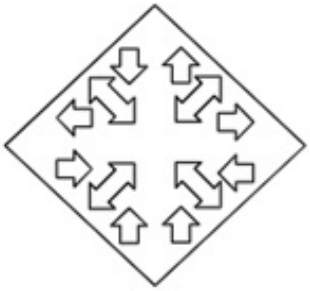
(a)



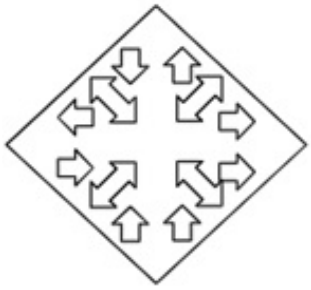
(b)



(c)



(d)



Answer: (a)

15. In the following question, four number pairs are given. In each pair the number on left side of (–) is related to the number of the right side of (–) with some Logic/Rule/Relation. Three pairs are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives. (NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g.13 – Operations on 13 such as adding /subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(a) 6 – 60

(b) 2 – 18

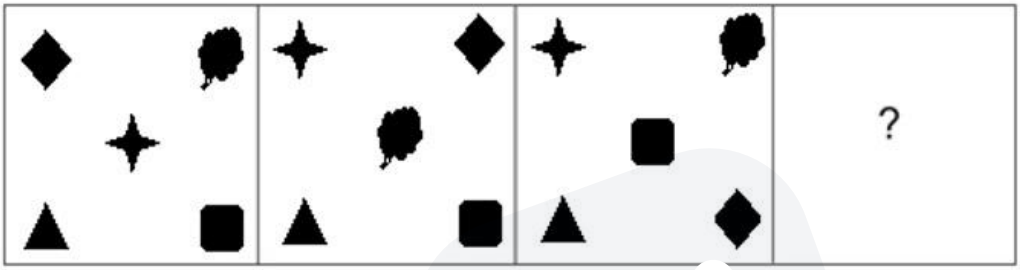
(c) 4 – 40

(d) 8 – 80

Answer: (b)

16.

Select the figure that will come next in the following figure series.



(a)

(b)

(c)

(d)

Answer: (b)

17.

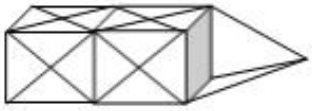
Select the option in which the given figure is embedded (rotation is NOT allowed).

(a)

(b)

(c)

(d)



Answer: (d)

19. If P ÷ Q means that P is the mother of Q, P × Q means that P is the father of Q, P – Q means that P is the sister of Q, then which of the following expression shows that A is the father of C?

(a) B × A – C

(b) A × B – C

(c) A × B ÷ C

(d) A – B × C

Answer: (b)

20. In the following question below are given some statements followed by some conclusions based on those statements. 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. Some S are C. II. Some C are D. Conclusions: I. All D are S. II. Some C are S. III. Some D are C.

(a) Both conclusions I and II follows

(b) Both conclusions II and III follows

(c) Both conclusions I and III follows

(d) All conclusion follows

Answer: (b)

21. In a certain code language, 'DOVE' is coded as '1122214' and 'CROW' is coded as '823311'. How will 'MYNA' be coded in that language?

(a) 1121512

(b) 1132512

(c) 1132412

(d) 1132522

Answer: (b)

22. By interchanging the given two signs and numbers which of the following equation will be correct? – and +, 6 and 3

(a) 7 – 3 × 2 ÷ 6 + 4 = 17

(b) 8 × 3 – 6 + 4 ÷ 2 = 49

(c) 7 + 6 ÷ 3 × 8 – 5 = 35

(d) 9 – 6 × 4 + 3 × 7 = 8

Answer: (b)

23. Select the word-pair that best represents a similar relationship to the one expressed in the given pair of words. (The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word) Hibiscus : Flower

(a) Pumpkin : Fruit

(b) Beans : Protein

(c) Leaf : Green

(d) Tree : Trunk

Answer: (a)

24.

Which of the following terms will replace the question mark (?) in the given series?

ZXE ZWD ZVC ? ZTA

(a) ZAB
(b) SUB
(c) ZUB
(d) ZUC

Answer: (c)

25. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster. COOK : DQPM :: DOWN : EQXP :: ONLY : ?

(a) PPMA
(b) PPMB
(c) PQMA
(d) PQMB

Answer: (a)

General Awareness

3. Wangala festival is celebrated by which of the following tribes?

(a) Bhil tribe
(b) Garo tribe
(c) Tharu tribe
(d) Bhutia tribe

Answer: (b)

4. Which Article deals with the 'Power of Parliament to amend the Constitution and procedure therefor'?

(a) Article 352
(b) Article 249
(c) Article 368
(d) Article 356

Answer: (c)

5. Name the first Odissi classical dancer from Odisha who was conferred the Padma Vibhushan Award.

(a) Kelucharan Mohapatra
(b) Bijayini Satpathy
(c) Sonal Mansingh
(d) Gangadhar Pradhan

Answer: (a)

6. The official draw for FIFA U-17 Women's World Cup India 2022 will be held in:
   (a) China PR
   (b) Brazil
   (c) India
   (d) Zurich
   Answer: (d)

7. _____ is a record of assets and liabilities of any firm.
   (a) Bill file
   (b) Balance of payment
   (c) Balance sheet
   (d) Bank bailout
   Answer: (c)

10. Who was considered as last powerful Mughal ruler of India?
   (a) Akbar
   (b) Aurangzeb
   (c) Akbar II
   (d) Shahjahan
   Answer: (b)

11. Which state government has launched the CHHAT cheme to improve groundwater table in September 2022?
   (a) Uttar Pradesh
   (b) Madhya Pradesh
   (c) Karnataka
   (d) Odisha
   Answer: (d)

12. The minimum period of time taken upto which the weather variations are considered to predict the climate of a place is _____ years.
   (a) 20
   (b) 25
   (c) 10
   (d) 30
   Answer: (d)

13. The length of a Beach Volleyball court is:
   (a) 12 m
   (b) 16 m
   (c) 20 m
   (d) 15 m
   Answer: (b)

15. _____ has been elected as the 36th President of the Board of Control for Cricket in India.

(a) Ravi Kumar S

(b) Roger Binny

(c) Pradeep Singh Kharola

(d) Bhushan Akshikar

Answer: (b)

16. For pregnant women, a Special Health Care Abhiyan 'Anchal' has been launched in _____.

(a) Gujarat

(b) Rajasthan

(c) Haryana

(d) Punjab

Answer: (b)

17. Which of the following are members of 15 naturally occurring metallic chemical elements whose atomic numbers are between 57 and 71?

(a) Alkali Metals

(b) Lanthanides

(c) Halogens

(d) Actinides

Answer: (b)

18. In the beginning of the 19th century cotton mills in India were mostly located in which of the following states?

(a) Assam

(b) Punjab

(c) Maharashtra

(d) Haryana

Answer: (c)

19. Dadabhai Naoroji offered a scathing criticism of the economic impact of British rule through his book entitled '_____'.

(a) India Today

(b) The Idea of India

(c) Poverty and Un-British Rule in India

(d) The History of British India

Answer: (c)

20. In March 2022, Pramod Sawant became the _____ Chief Minister of Goa.

(a) 10th

(b) 13th

(c) 15th

(d) 11th

Answer: (b)

21. Identify an option that does NOT represent prokaryotic cells.
    (a) Mycoplasma
    (b) Blue-green alga
    (c) Sperm
    (d) Pleuropneumonia-like organism

    Answer: (c)

22. Which of the following is NOT an aid or auxiliary to trade?
    (a) Hoarding
    (b) Insurance
    (c) Warehousing
    (d) Transportation

    Answer: (a)

23. Who is known as the Father of Geology?
    (a) John Butler
    (b) Alfred Wegener
    (c) James Hutton
    (d) Art Smith

    Answer: (c)

24. Mirza Kamran was the brother of which Mughal emperor?
    (a) Humayun
    (b) Akbar
    (c) Jahangir
    (d) Shah Jahan

    Answer: (a)

25. Which of the following folk dances is primarily performed in the Indian state of Bihar?
    (a) Ghoomar
    (b) Kalbeliya
    (c) Bidesia
    (d) Kummatti

    Answer: (c)

Quantitative Aptitude

1. The radius of a right circular cylinder is thrice of its height. If the height of the cylinder is 2.1 cm, then what is the volume of cylinder?
    (a) 224.65 cm^3
    (b) 194.72 cm^3
    (c) 324.86 cm^3
    (d) 261.95 cm^3

    Answer: (d)

2. 5 men and 8 women can complete a work in 12 days working together, while 3 men and 7 women together can complete the same work in 15 days. In how many days will 11 women complete the same work?

(a) 12

(b) 8

(c) 6

(d) 16

Answer: (a)

5. A man bought a watch for 12% discount. If he had bought it for 24% discount, he would have got the watch for ₹2400 less. The marked price of the watch is:

(a)

₹30,000

(b)

₹22,500

(c)

₹20,000

(d)

₹25,000

Answer: (c)

6. If the price of salt decreases by 20%, then by wh percentage should consumption be increased to keep the expenditure same?

(a) 26%

(b) 27%

(c) 25%

(d) 24%

Answer: (c)

7. A solid copper sphere of radius 9 cm is hammered and moulded into a wire of radius 2 cm. What is the length of this wire?

(a) 224 cm

(b) 183 cm

(c) 198 cm

(d) 243 cm

Answer: (d)

8. Which smallest positive number should be subtracted from each of 9 and 13 so that 18 is the third proportion to them?

(a) 2

(b) 4

(c) 3

(d) 1

Answer: (d)

9. A company employed 700 men and 300 women and the average wage was Rs.450 per day. If a man got Rs.50 more than a woman, then the daily wage of the woman is:

(a) Rs.350

(b) Rs.375

(c) Rs.415

(d) Rs.435

Answer: (c)

10. A,B,C are three angles of a triangle. If A - B = 45° and B - C = 15° then ∠A = ?

(a) 83°

(b) 85°

(c) 95°

(d) 75°

Answer: (c)

11. If $8a^3 + 27b^3 = 16$ and $2a + 3b = 4$,then find the value of $16a^4 + 81b^4$.

(a) 26

(b) 30

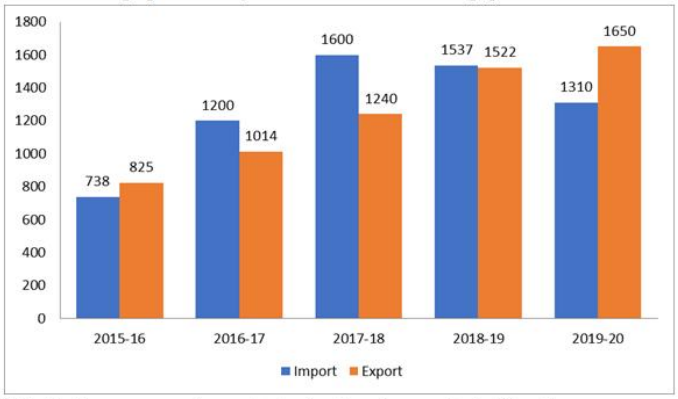
(c) 28

(d) 32

Answer: (d)

12.

The import and export of a country (in lakhs rupees) during a certain period of time is given in the following bar-graph.
Read the bar-graph carefully and answer the following question.



What is the average of exports during the given period of time?

(a) Rs.1,250.2 lakhs

(b) Rs.1,240.0 lakhs

(c) Rs.1,248.2 lakhs

(d) Rs.1,115.4 lakhs

Answer: (a)

13. If the cost price is 72% of the selling price, then what is the percentage of profit? (Correct to 2 decimal places)

(a) 38.89%

(b) 35.75%

(c) 32.25%

(d) 28.75%

Answer: (a)

14. What would be the compound interest on Rs.15,750 at 20% per annum, in two years, if the interest is compounded half yearly?

(a)

Rs.5,213.25

(b)

Rs.3,307.5

(c)

Rs.7,305.975

(d)

Rs.7,309.575

Answer: (d)

16. A number when divided by 7 leaves remainder of 4. If the square of the same number is divided by 7, then what is the remainder?

(a) 3

(b) 1

(c) 4

(d) 2

Answer: (d)

17.

The given table shows the number of new employees joined in different categories of employees in an organisation and also the number of employees from these categories who left the organisation every year since the foundation of the organisation in 2015. Study the table and answer the question that follows.

Year	Business Analysts		Accountants		Sales Representatives		Peons	
	Joined	Left	Joined	Left	Joined	Left	Joined	Left
2015	80	0	35	0	50	0	73	0
2016	63	21	26	16	46	20	34	23
2017	78	28	15	5	38	15	48	29
2018	42	39	20	38	34	0	14	12
2019	67	44	14	24	22	30	21	30

During the years given, what is the difference between the total numb Business Analysts who joined the organisation and the total number of Sales Representatives who j d the organisation?

(a) 141

(b) 140

(c) 142

(d) 143

Answer: (b)

18. If cot B = 9, then what will be the value of $\sec^2$ B?

(a) 98/81

(b) 92/81

(c) 42/81

(d) 82/81

Answer: (d)

20. The value of 95 × 105 is:

(a) 9981

(b) 9935

(c) 9965

(d) 9975

Answer: (d)

21. The LCM of two numbers is 120 and the numbers are in the ratio 3 : 8. The sum of the numbers will be:

(a) 48

(b) 55

(c) 45

(d) 60

Answer: (b)

22.

Simplify the following:

$$\frac{\cos x - \sqrt{3}\sin x}{2}$$

(a)

$$\cos\left(\frac{\pi}{3} - x\right)$$

(b)

$$\sin\left(\frac{\pi}{3} + x\right)$$

(c)

$$\cos\left(\frac{\pi}{3} + x\right)$$

(d)

$$\sin\left(\frac{\pi}{3} - x\right)$$

Answer: (c)

23.

Find the value of the following expression.

$$12^3 + (-8)^3 + (-4)^3$$

(a) 952

(b) 1152

(c) 1052

(d) 852

Answer: (b)

24. Suppose ΔABC be a right-angled triangle where ∠A = 90° and AD ⊥ BC. If area (ΔABC) = 80 cm^2 and BC = 16 cm, then the length of AD is:

(a) 10 cm

(b) 24 cm

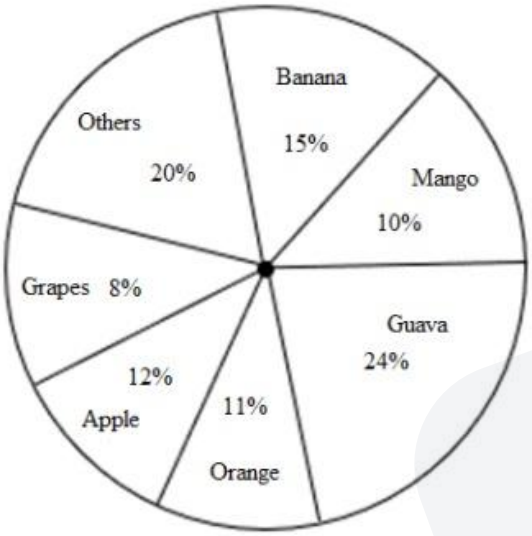
(c) 18 cm

(d) 12 cm

Answer: (a)

25.

The following pie chart represents the percentage-wise weight distribution of different fruits out of 2500 kg of fruits at one fruit shop.



What is the difference between the weights o[illegible]d orange at the fruit shop?

(a) 125 kg

(b) 100 kg

(c) 50 kg

(d) 75 kg

Answer: (b)

English Comprehension

1. Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph. A.Shalini was scrolling down the phone screen while waiting for her friend. B.Her friend brought a bouquet for Shalini from the market place. C.When her friend arrived, they went to the market place. D.The market place was thronging with people.

(a) BACD

(b) DACB

(c) ABCD

(d) ACDB

Answer: (d)

2. Select the most appropriate meaning of the given idiom. Cut a poor figure

(a) In a poor state

(b) To put a good impression

(c) To put a bad impression

(d) Bad physical form

Answer: (c)

3. Rearrange the parts of the sentence in correct order. A 2007–2009 study
P. explored forward thinking techniques
Q. to synchronise time on board deep
R. space probes for accurate navigation, in
S. particular looking into low-cost options

(a) RSPQ

(b) PSRQ

(c) SPRQ

(d) PQRS

Answer: (d)

4. Select the correct passive form of the given sentence. The indentured labourers fix the roads.

(a) The roads was fixed by indentured labourers.

(b) The roads were fixed by indentured labourers.

(c) The roads are fixed by indentured labourers.

(d) The roads were being fixed by indentured labourers.

Answer: (c)

6. Select the most appropriate meaning of the given idiom. Bear the palm

(a) To bring joyful news

(b) To lose a game

(c) To advocate peace

(d) To be a winner

Answer: (d)

7. A sentence has been given with a blank to be filled with an appropriate word. Choose the correct alternative. Every person should know their own _____, what their skill set is and how unique they are.

(a) calamities

(b) punctualities

(c) specialties

(d) fecundities

Answer: (c)

8. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. The manager told her that / she should be a bit more / careful while executed the / orders of the company.

(a) The manager told her that

(b) she should be a bit more

(c) orders of the company

(d) careful while executed the

Answer: (d)

9. Select the option that can be used as a one-word substitute for the given group of words. A loud appeal or demand

(a) Protest

(b) Entourage

(c) Clamour

(d) Gambit

Answer: (c)

11. Select the option that expresses the given sentence in indirect speech. He said, 'Let us wait for the award.'

(a) He proposed that they should wait for the award.

(b) He said that he should wait for the award.

(c) He proposed that he should wait for the award

(d) He said that they should waited for the award

Answer: (a)

12. Select the most appropriate ANTONYM of the given word. Humble

(a) Dishonour

(b) Pleasantry

(c) Modest

(d) Arrogant

Answer: (d)

13. Select the most appropriate option to substitute the underlined segment in the given sentence.

During my Goa tour, I <u>had visited</u> beaches in Vasco, Baga and Vagator.

(a) visited

(b) have visited

(c) was visited

(d) had visited

Answer: (a)

14. Select the most appropriate option to fill in the blank. The country's rapid _____ has led to a rise in many people's standard of living.

(a) idea
(b) life
(c) confidence
(d) growth

Answer: (d)

15. Select the most appropriate ANTONYM of the word laborious from the given sentence: Although gardening is a laborious job, but it gives me boundless joy, strenuous happiness and immense satisfaction and I like this facile activity.

(a) boundless
(b) facile
(c) strenuous
(d) immense

Answer: (b)

16. Select the INCORRECTLY spelt word.

(a) Friwsk
(b) Reply
(c) Rusk
(d) Foliage

Answer: (a)

17. Select the most appropriate adverb to fill the blank. They supplied the required human resource _____.

(a) faultlessly
(b) heavy
(c) clear
(d) able

Answer: (a)

18. Select the most appropriate synonym of the underlined word.

The celebrity was <u>inundated</u> with birthday wishes from his admirers.

(a) Annoyed
(b) Preoccupied
(c) Rewarded
(d) Overwhelmed

Answer: (d)

19. Select the most appropriate ANTONYM of the given word. Dispatch
    (a) Acquire
    (b) Transmit
    (c) Deliver
    (d) Bulletin

    Answer: (a)

Passage — for questions 21–25

> In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. Education (1)_____ both the teaching and learning of knowledge, proper conduct, and technical competency. It thus (2)____ on the cultivation of skills, trades or professions, as well as mental, moral and aesthetic development. Formal education consists of systematic instruction, teaching and training by (3)____ teachers. This consists of the application of pedagogy and the development of curricula. The right to education is a (4)_____ human right. Educational systems are established to provide education and (5)_____, often for children and the young.

21. Select the most appropriate option to fill in blank number 1.
    (a) likes
    (b) releases
    (c) makes
    (d) encompasses

    Answer: (d)

22. Select the most appropriate option to fill in blank number 2.
    (a) changes
    (b) makes
    (c) focuses
    (d) regards

    Answer: (c)

23. Select the most appropriate option to fill in blank number 3.
    (a) general
    (b) professional
    (c) fresh
    (d) new

    Answer: (b)

24. Select the most appropriate option to fill in blank number 4.
    (a) fundamental
    (b) personal
    (c) beautiful
    (d) long standing

    Answer: (a)

25. Select the most appropriate option to fill in blank number 5.
    (a) dreams
    (b) challenges
    (c) training
    (d) upbringing

    Answer: (c)

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)**	3	**(a)**	4	**(a)**	5	**(a)**	6	**(d)**	7	**(c)**	8	**(a)**	9	**(b)**
10	**(d)**	11	**(d)**	12	**(c)**	13	**(d)**	14	**(a)**	15	**(b)**	16	**(b)**	17	**(d)**
19	**(b)**	20	**(b)**	21	**(b)**	22	**(b)**	23	**(a)**	24	**(c)**	25	**(a)**		

General Awareness

3	**(b)**	4	**(c)**	5	**(a)**	6	**(d)**	7	**(c)**	10	**(b)**	11	**(d)**	12	**(d)**
13	**(b)**	15	**(b)**	16	**(b)**	17	**(b)**	18	**(c)**	19	**(c)**	20	**(b)**	21	**(c)**
22	**(a)**	23	**(c)**	24	**(a)**	25	**(c)**								

Quantitative Aptitude

1	**(d)**	2	**(a)**	5	**(c)**	6	**(c)**	7	**(d)**	8	**(d)**	9	**(c)**	10	**(c)**
11	**(d)**	12	**(a)**	13	**(a)**	14	**(d)**	16	**(d)**	17	**(b)**	18	**(d)**	20	**(d)**
21	**(b)**	22	**(c)**	23	**(b)**	24	**(a)**	25	**(b)**						

English Comprehension

1	**(d)**	2	**(c)**	3	**(d)**	4	**(c)**	6	**(d)**	7	**(c)**	8	**(d)**	9	**(c)**
11	**(a)**	12	**(d)**	13	**(a)**	14	**(d)**	[illegible]	**(b)**	16	**(a)**	17	**(a)**	18	**(d)**
19	**(a)**	21	**(d)**	22	**(c)**	23	**(b)**	[illegible]	**(a)**	25	**(c)**				