

PREVIOUS YEAR PAPER

## SSC CGL 2022 Tier I — 12 December 2022, Shift 2

SSC CGL · 12 December 2022 · 11:45 AM - 12:45 PM

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

6 questions of the original paper are not included: those that need a figure or formatting we cannot show, that have no answer in the response sheet, or that we could not check against a second copy of the paper.

Questions from the Staff Selection Commission's paper of 12 December 2022, 11:45 AM - 12:45 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/previous-year-papers/ssc-cgl-2022-tier-1-12-dec-shift-2/](https://exambharo.com/previous-year-papers/ssc-cgl-2022-tier-1-12-dec-shift-2/)

### General Intelligence and Reasoning

1. A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. ABCD, AXUR, ATMF, APET, ?

- (a) RATM
- (b) ALWH
- (c) ALHR
- (d) AMNO

**Answer: (b)**

2. Three of the following letter-clusters are alike in some manner and hence form a group. Which letter-cluster does not belong to that group?

- (a) UCF
- (b) ZXA
- (c) NJM
- (d) HDX

**Answer: (d)**

3. 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. All S are B. II. Some B are C. Conclusions: I. All S are C. II. No C is B. III. All B are S.

- (a) All conclusion follows
- (b) Only conclusion I follows
- (c) Neither conclusion follows
- (d) Only conclusion II follows

**Answer: (c)**

4. Three statements are given, followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements. Statements: No cup is a plate. All cups are utensils. Some bottles are cups. Conclusions:

- I. Some utensils are not plates.
- II. Some bottles are not plates.
- III. No bottle is a plate.

- (a) Only conclusions I and II follow
- (b) Only conclusions II and III follow
- (c) All conclusions follow
- (d) Only conclusions I and III follow

**Answer: (a)**

5. A # B means 'A is the sister of B'. A @ B means 'A is the son of B'. A & B means 'A is the father of B'. A % B means 'A is the mother of B'. If W @ Q % T & Y @ M % K, then how is W related to K?

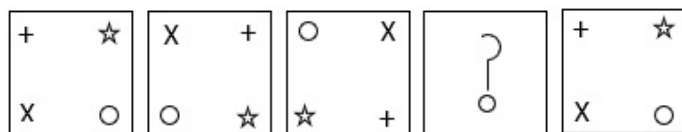
- (a) Father
- (b) Mother's brother
- (c) Father's brother
- (d) Brother

**Answer: (c)**

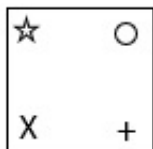


6.

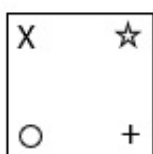
Select the figure that can replace the question mark (?) in the following figure series.



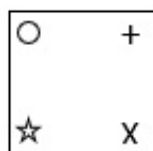
(a)



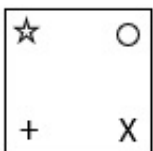
(b)



(c)

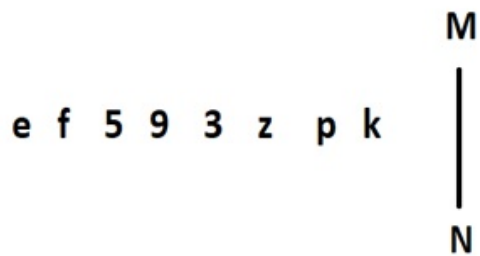


(d)

**Answer: (d)**

7.

Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.



(a)

k q z ɛ ɒ ɹ ʃ ɐ

(b)

Ǝ q z ɛ ɒ ɹ ʃ ɐ

(c)

k q z ɛ ɒ ɹ ʃ ɐ

(d)

k q z ɛ ɒ ɹ ʃ ɐ

Answer: (c)

8.

Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).



(a)



(b)



(c)



(d)

**Answer: (a)**

9. 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. WITNESS : SSENTIW :: SILENCE : ECNELIS :: PROTECT : ?

(a) PROCETT

(b) TCETORP

(c) CETPROT

(d) RPOTCET

**Answer: (b)**

10. In a certain code language, 'HABIT' is written as 'ITAHB' and 'BASED' is written as 'EDABS'. How will 'GAMES' be written in that language?

- (a) ESAGM
- (b) ESGAM
- (c) ESAMG
- (d) SEAGM

**Answer: (a)**

11. Select the odd group of numbers. (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)  $(16 - 20 - 24)$
- (b)  $(23 - 27 - 31)$
- (c)  $(11 - 15 - 19)$
- (d)  $(12 - 14 - 18)$

**Answer: (d)**

12.

Three different positions of the same dice are shown. Find the number on the face opposite the face showing '2'.

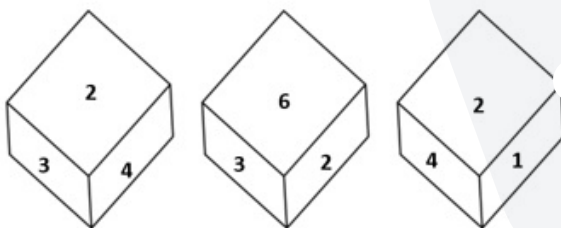


Figure 1

Figure 2

Figure 3

- (a) 4
- (b) 3
- (c) 5
- (d) 6

**Answer: (c)**

13. Which of the following numbers will replace the question mark (?) in the given series? 25, 15, ?, -5, -15

- (a) 20
- (b) 5
- (c) 10
- (d) -1

**Answer: (b)**

14. Select the set in which the numbers are NOT related in the same way as are the numbers of the given 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) (168, 122, 290)

- (a) (198, 112, 310)
- (b) (226, 148, 374)
- (c) (236, 118, 356)
- (d) (126, 132, 258)

**Answer: (c)**

15. Which of the following interchange of numbers and mathematical signs would make the given equation correct?  $72 \div 6 - 20 + 30 \times 5 = 70$

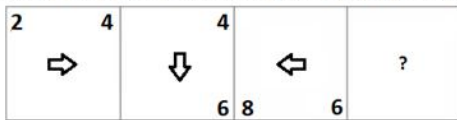
- (a) 5 and 20, – and  $\times$
- (b) 20 and 30,  $\times$  and  $\div$
- (c) 5 and 70, + and –
- (d) 6 and 20, + and  $\div$

**Answer: (a)**

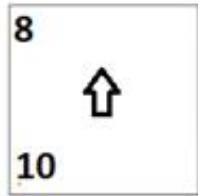


16.

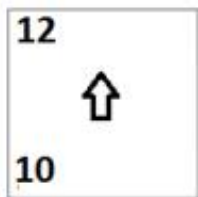
Select the figure from among the given options that can replace the question mark (?) in the following series.



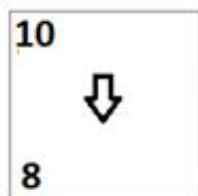
(a)



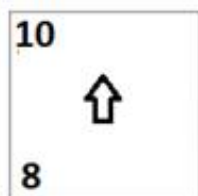
(b)



(c)



(d)

**Answer: (d)**

17. Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below. (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.)

Lion : Roar

- (a) Hen : Crow
- (b) Owl : Bleat
- (c) Horse : Neigh
- (d) Goat : Hoot

**Answer: (c)**

18. Select the correct combination of mathematical signs to sequentially replace the @ signs and to balance the given equation.  $\{(14 @ 6) @ (2 @ 3)\} @ (1 @ 7)] @ 2 @ 4$

- (a)  $\times, \div, \times, \times, -, +, =$
- (b)  $-, +, \times, \times, \times, \times, =$
- (c)  $\times, -, +, \times, \div, \times, =$
- (d)  $-, +, \times, \div, \times, \times, =$

**Answer: (d)**

19. In a certain code language, 'ABACK' is written as 'MECDC' and 'CABAL' is written as 'NCDCE'. How will 'EAGER' be written in that language?

- (a) TGICG
- (b) TGCIG
- (c) TCIDG
- (d) TFICG

**Answer: (a)**

21. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (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 /deleting / 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) (8, 540, 60) (9, 70, 7)

- (a) (12, 56, 60)
- (b) (8, 63, 7)
- (c) (9, 54, 12)
- (d) (9, 45, 7)

**Answer: (b)**

22. Which two signs should be interchanged to make the given equation correct?  $34 \div 16 + 4 * 8 - 6 = 60$

- (a)  $-$  and  $*$
- (b)  $+$  and  $*$
- (c)  $\div$  and  $-$
- (d)  $\div$  and  $+$

**Answer: (d)**

23. If  $A \times B$  means that A is the father of B,  $A - B$  means that A is the mother of B,  $A \div B$  means that A is the brother of B then which of the following expression shows that P is the paternal uncle of R?

- (a)  $P \div Q \times R$
- (b)  $P \div Q - R$
- (c)  $Q \div P \times R$
- (d)  $P \times Q \div R$

**Answer: (a)**

24. Which letter cluster will replace the question mark (?) to complete the given series? VSNY, UQLU, ?, SMHM, RKFI

- (a) TOJQ
- (b) TOJR
- (c) TOKQ
- (d) TPJQ

**Answer: (a)**

25. 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. 14 : 400 :: 37 : ? :: 42 : 2304

- (a) 1333
- (b) 1764
- (c) 1849
- (d) 1521

**Answer: (c)**

## General Awareness

1. Which of the following players is associated with billiards?

- (a) Neeraj Chopra
- (b) Sankalp Gupta
- (c) Pankaj Advani
- (d) Manish Narwal

**Answer: (c)**

2. Name an alkylbenzene widely used as a chemical intermediate in the production of phenol.

- (a) Cumene
- (b) Furan
- (c) Styrene
- (d) Toluene

**Answer: (a)**

3. Fundamental Duties are contained within which Article of the Constitution of India?

- (a) Article 492
- (b) Article 51A
- (c) Article 50A
- (d) Article 44

**Answer: (b)**

4. Which Indian religious festival has recently been included in the representative list of intangible cultural heritage of humanity by UNESCO, an organisation of the United Nations?

- (a) Durga Puja
- (b) Ramnavami
- (c) Janmashtami
- (d) Mahashtami

**Answer: (a)**

5. Which of the following pairs of 'Ruler – Ruling period' is correctly matched?

I. Sher Shah Suri – 1540-1545

II. Akbar – 1556-1605

- (a) Neither I nor II
- (b) Only II
- (c) Only I
- (d) Both I and II

**Answer: (d)**

6. On 5 April 2022, who was appointed as the Chairman of the Union Public Service Commission?

- (a) S Raju
- (b) Suman K Bery
- (c) Manoj Soni
- (d) Ashwin Yardi

**Answer: (c)**

7. The Planning commission of India has divided India into how many Agro-climatic Zones?

- (a) 15
- (b) 25
- (c) 18
- (d) 20

**Answer: (a)**

8. Who among the following headed the National Income Committee?

- (a) PC Mahalanobis
- (b) VKRV Rao
- (c) DR Gadgil
- (d) BR Ambedkar

**Answer: (a)**

9. The mass number of titanium is:

- (a) 44.56
- (b) 49.82
- (c) 41.33
- (d) 47.78

**Answer: (d)**

10. The \_\_\_\_\_ Cabinet approved the country's first-of-its-kind gene bank programme in the State.

- (a) Rajasthan
- (b) Maharashtra
- (c) Andhra Pradesh
- (d) Odisha

**Answer: (b)**

11. In which year did AEB de Chancourtois organise the elements by atomic weight, by graphing the elements around a cylinder with a circumference of 16 units, corresponding to the weight of oxygen (O)?

- (a) 1862
- (b) 1860
- (c) 1870
- (d) 1868

**Answer: (a)**

12. A booklet released by the Lok Sabha Secretariat has listed out words and expressions that would be considered unparliamentary in both the Lok Sabha and Rajya Sabha. Which of the following words is NOT declared unparliamentary?

- (a) Shakuni
- (b) Nautanki
- (c) Chakkar
- (d) Girgit

**Answer: (c)**

13. The shape of peninsular plateau in India is \_\_\_\_\_.

- (a) Linear
- (b) Rectangular
- (c) Circular
- (d) Triangular

**Answer: (d)**

14. Which of the following cities hosted the finals of IPL 2022?

- (a) Kolkata
- (b) Ahmedabad
- (c) Mumbai
- (d) Hyderabad

**Answer: (b)**

15. In which of the following years, did Subhas Chandra Bose refer to Mahatma Gandhi as the "Father of the Nation"?

- (a) 1942
- (b) 1944
- (c) 1939
- (d) 1941

**Answer: (b)**

16. The Green Revolution in India started in \_\_\_\_\_.

- (a) 1940s
- (b) 1990s
- (c) 1950s
- (d) 1960s

**Answer: (d)**

17. The Sattriya dance form was introduced in the 15th century AD by the great Vaishnava saint and reformer of Assam, \_\_\_\_\_.

- (a) Chaitanya Mahaprabhu
- (b) Mahapurusha Sankaradeva
- (c) Vallabhacharya
- (d) Sant Namdev

**Answer: (b)**

18. T. Balasaraswati, a \_\_\_\_\_ dancer was also an actress.

- (a) Bharatanatyam
- (b) Kuchipudi
- (c) Manipuri
- (d) Kathakali

**Answer: (a)**

19. Who runs the government at the national level under the parliamentary system?

- (a) The President and Council of Ministers
- (b) The Prime Minister and Council of Ministers
- (c) The Prime Minister
- (d) The President

**Answer: (b)**

20. Identify the INCORRECT pair.

- (a) Ustad Allarakha Khan – Tabla
- (b) Ravi Shankar – Sitar
- (c) Mogubai Kurdikar – Vocal
- (d) Ustad Vilayat Khan – Sarod

**Answer: (d)**

21. In 1498, Vasco da Gama, a Portuguese explorer had discovered a route to \_\_\_\_\_.

- (a) India
- (b) Australia
- (c) China
- (d) Japan

**Answer: (a)**

22. El-Nino develops in which of these oceans?

- (a) Arctic Ocean
- (b) Indian Ocean
- (c) Atlantic Ocean
- (d) Pacific Ocean

**Answer: (d)**

23. The border line which separate Indian and Pakistan is known as \_\_\_\_\_.

- (a) Lahore line
- (b) McMahon line
- (c) Radcliffe line
- (d) Delhi line

**Answer: (c)**

24. Identify animals that are NOT triploblastic.

- (a) Molluscs
- (b) Chordates
- (c) Coelenterates
- (d) Platyhelminthes

**Answer: (c)**

25. Which of the following statement is correct with respect to the Shaka dynasty?

I. Some kingdoms of Shakas lasted for about 500 years.

II. The Shakas were followed by the Kushanas about 2200 years ago.

- (a) Neither I nor II
- (b) Only I
- (c) Both I and II
- (d) Only II

**Answer: (b)**

## Quantitative Aptitude

1. If  $\sin^2 \theta - 3 \sin \theta + 2 = 0$ , then find the value of  $\theta$  ( $0^\circ \leq \theta \leq 90^\circ$ ).

- (a)  $45^\circ$
- (b)  $0^\circ$
- (c)  $60^\circ$
- (d)  $90^\circ$

**Answer: (d)**

2. The LCM of 1.2 and 2.7 is:

- (a) 5.4
- (b) 10.8
- (c) 1.08
- (d) 32.4

**Answer: (b)**

3. The radius of a right circular cylinder is four times of its height. If the height of the cylinder is 14 cm, then what is the volume of cylinder?

- (a)  $15468 \text{ cm}^3$
- (b)  $14262 \text{ cm}^3$
- (c)  $137984 \text{ cm}^3$
- (d)  $11296 \text{ cm}^3$

**Answer: (c)**

4.

What is the rate of interest per annum for simple interest at which Rs.880 amounts to Rs.913 in  $1\frac{1}{2}$  years ?

- (a)  $2\frac{2}{3} \%$
- (b)  $2\frac{1}{4} \%$
- (c)  $2\frac{1}{2} \%$
- (d)  $2\frac{1}{3} \%$



**Answer: (c)**

5. A number is decreased by 20% to get another number. The number so obtained is increased by 200% to get a third number. The difference of the third number and the original number is what percentage more or less than the difference of second and the third number?

- (a) More, 15.7 Percent
- (b) Less, 15.7 Percent
- (c) More, 12.5 Percent
- (d) Less, 12.5 Percent

**Answer: (d)**

6. Any six-digit number that is formed by repeating a three-digit number, is always divisible by:

- (a) 111
- (b) 1001
- (c) 19
- (d) 101

**Answer: (b)**

7. The printed price of a TV set is ₹14,500. It is sold for ₹10,000 with two consecutive discounts. If the first discount is 10%, then what is the second discount?

- (a) 23.37%
- (b) 25.37%
- (c) 20.37%
- (d) 27.37%

**Answer: (a)**

8. If

$$a + \frac{1}{a} = 5$$

, then what is the value of

$$a^3 + \frac{1}{a^3}$$

?

- (a) 110
- (b) 15
- (c) 105
- (d) -10

**Answer: (a)**

9. The area of a triangle is  $96 \text{ cm}^2$  and the ratio of its sides is 6 : 8 : 10. What is the perimeter of the triangle?

- (a) 48 cm
- (b) 56 cm
- (c) 64 cm
- (d) 44 cm

**Answer: (a)**



10.

The radii of the ends of a frustum of a cone 7 cm high are 5 cm and 3 cm. Find its volume correct to one decimal place.

(Use  $\pi = \frac{22}{7}$ )

(a)

$$345.6 \text{ cm}^3$$

(b)

$$359.3 \text{ cm}^3$$

(c)

$$379.3 \text{ cm}^3$$

(d)

$$369.3 \text{ cm}^3$$

**Answer: (b)**

11. A boat covers a certain distance against the stream in 9 hours 36 min and it covers the same distance along the stream in 6 hours. What is the ratio of the speed of the boat in still water to that of the stream?

(a) 13 : 3

(b) 9 : 2

(c) 11 : 6

(d) 8 : 5

**Answer: (a)**

12. Raju, Shobh and Mohan can do a work in 20 days, 24 days and 25 days respectively. In how many days, will the work be finished, if they do it on alternate days?

(a)

$$15\frac{9}{10} \text{ days}$$

(b)

$$18\frac{7}{10} \text{ days}$$

(c)

$$21\frac{7}{10} \text{ days}$$

(d)

$$18\frac{9}{10} \text{ days}$$

**Answer: (d)**

13. What is the value of

$$a^2 + b^2 + c^2 - 2ab - 2bc + 2ca$$

?

- (a)  $(2a + b + c)^2$
- (b)  $(a - b + c)^2$
- (c)  $(a - b - 2c)^2$
- (d)  $(a + 2b - c)^2$

**Answer: (b)**

14. A jeep travels to a place 300 km away at an average speed of 60 km/h and returns at a speed of 30 km/h. What is the average speed (in km/h) for the whole journey?

- (a) 75
- (b) 80
- (c) 40
- (d) 60

**Answer: (c)**

15. The table given below shows the number of people in different states.

| States | Number of people |
|--------|------------------|
| F      | 474              |
| G      | 500              |
| H      | 444              |
| I      | 495              |
| J      | 580              |

What is the average number of people in all the states?

- (a) 396.5
- (b) 482.5
- (c) 498.6
- (d) 476.6

**Answer: (c)**

16. The average age of a man and his son is 55 years. The ratio of their ages is 7 : 4, respectively. What will be the ratio of their ages after 6 years?

- (a) 1 : 2
- (b) 12 : 7
- (c) 25 : 17
- (d) 38 : 23

**Answer: (d)**

17.

$\Delta ABC$  is a right-angle triangle at B and  $\tan A = \frac{3}{4}$ , then  $\sin A + \sin B + \sin C$  will be equal to:

(a)

$$2\frac{4}{5}$$

(b)

$$2\frac{2}{5}$$

(c)

$$3\frac{1}{5}$$

(d)

$$1\frac{1}{5}$$

**Answer: (b)**

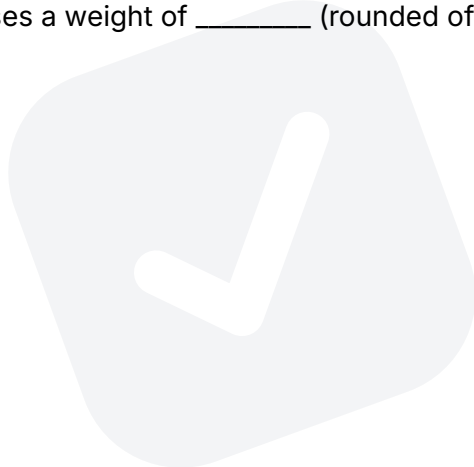
18. A dishonest dealer professes to sell his goods at cost price but uses a false weight and thus gains 15%. For a kilogram, he uses a weight of \_\_\_\_\_ (rounded off to one digit after decimal).

(a) 833.3 gm

(b) 876.7 gm

(c) 869.6 gm

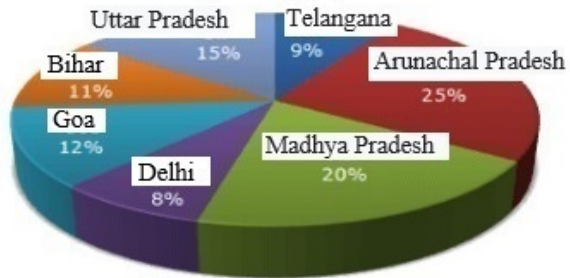
(d) 898.33 gm

**Answer: (c)**

19.

Study the given graph and table and answer the following question.

Data of different states regarding population of states in the year 1998



Total population of the given states = 32760000

| States            | Sex and literacy wise Population Ratio |   |          |            |
|-------------------|----------------------------------------|---|----------|------------|
|                   | Sex                                    |   | Literacy |            |
|                   | M                                      | F | Literate | Illiterate |
| Arunachal Pradesh | 5                                      | 3 | 2        | 7          |
| Madhya Pradesh    | 3                                      | 1 | 1        | 4          |
| Delhi             | 2                                      | 3 | 2        | 1          |
| Goa               | 3                                      | 5 | 3        | 2          |
| Bihar             | 3                                      | 4 | 4        | 1          |
| Uttar Pradesh     | 3                                      | 2 | 7        | 2          |
| Telangana         | 3                                      | 4 | 9        | 4          |

What was the number of males in Bihar in the year 1998?

- (a) 1,34,450
- (b) 1,64,440
- (c) 1,44,440
- (d) 1,54,440

**Answer: (d)**

21. A coconut tree swings with the wind in such a manner that the angle covered by its trunk is 18 degrees. If the topmost portion of the tree covers a distance of 44 metres, find the length of the tree.

- (a) 120 metres
- (b) 210 metres
- (c) 140 metres
- (d) 70 metres

**Answer: (c)**

22.

The following table shows the exports of three companies P, Q and R from 2015 to 2019.

| Company/years $\Rightarrow$<br>$\Downarrow$ | 2015 | 2016 | 2017 | 2018 | 2019 |
|---------------------------------------------|------|------|------|------|------|
| P                                           | 2000 | 1000 | 2000 | 3000 | 4000 |
| Q                                           | 4000 | 5000 | 4000 | 5000 | 3000 |
| R                                           | 3000 | 2000 | 4000 | 4000 | 5000 |

Which of the following years has the highest total exports from the three companies together?

- (a) 2019
- (b) 2017
- (c) 2015
- (d) 2016

**Answer: (a)**

23.

If  $C_1, C_2$  be the centres of two circles and  $r_1, r_2$  be the respective radii such that the distance between the centres is equal to the sum of the radii of the two circles, find the number of common tangents.

- (a) 4
- (b) 2
- (c) 1
- (d) 3

**Answer: (d)**

24.

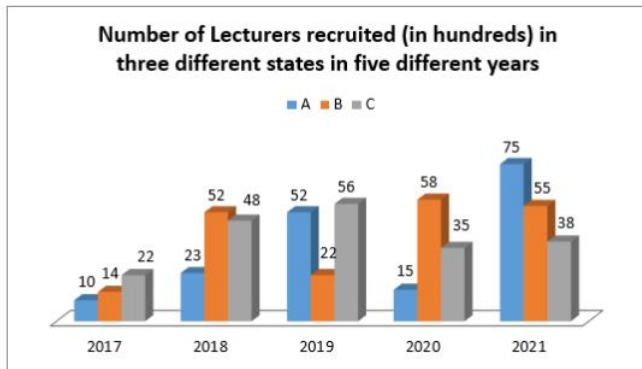
$\frac{1 + \sin \theta}{\cos \theta}$  is equal to which of the following, where  $\theta \neq \frac{\pi}{2}$ ?

- (a)  $\frac{1 + \cos \theta}{\sin \theta}$
- (b)  $\frac{\tan \theta + 1}{\tan \theta - 1}$
- (c)  $\frac{\tan \theta - 1}{\tan \theta + 1}$
- (d)  $\frac{\cos \theta}{1 - \sin \theta}$

**Answer: (d)**

25.

Study the given graph and answer the following question.



If 35% of the lecturers recruited in state B in the year 2021 were male, what was the number of females recruited in state B in that year?

- (a) 3845
- (b) 3575
- (c) 3590
- (d) 5500

**Answer: (b)**

## English Comprehension

1. Rearrange the parts of the sentence in correct order. Peer pressure  
P. when it comes to choosing the right  
Q. course and, therefore, career path  
R. and lack of guidance are some of  
S. the reasons for indecisiveness

- (a) SPQR
- (b) QSPR
- (c) RSPQ
- (d) PQRS

**Answer: (c)**

2. Select the most appropriate ANTONYM of the word 'STRANGE' from the given sentence. The intriguing journal took a back place once more to the more mundane events at the Ouray inn.

- (a) Events
- (b) Intriguing
- (c) Mundane
- (d) Place

**Answer: (c)**

5. Select the most appropriate synonym of the given word. Irrevocable

- (a) Unmediated
- (b) Congruent
- (c) Irreversible
- (d) Irresponsive

**Answer: (c)**

6. Select the most appropriate option to fill in the blank. The sergeant could not stand the weather because it was \_\_\_\_\_ cold.

- (a) bitterly
- (b) carefully
- (c) smoothly
- (d) cautiously

**Answer: (a)**

7. The following sentence has been divided into segments. One of them may contain an error. Select the segment that contains the error from the given options. If you don't find any error, mark 'No error' as your answer. No talking / on the dinner table / is an absolute rule.

- (a) No talking
- (b) No Error
- (c) on the dinner table
- (d) is an absolute rule.

**Answer: (b)**

8. Select the most appropriate meaning of the underlined idiom. The sailor tells great tales of adventure that you should take with a grain of salt.

- (a) Great admiration
- (b) Great patriotism
- (c) Not take too seriously
- (d) Be afraid to refrain from

**Answer: (c)**

9. Rearrange the parts of the sentence in correct order. Birds' heart, lungs and

P. uptake and intensive exertion compared

Q. to humans, which enables them to function

R. efficiently at these very high altitudes

S. muscles are more efficient for oxygen

- (a) QRPS
- (b) PRQS
- (c) SPQR
- (d) QSRP

**Answer: (c)**

10. Select the option that can be used as a one-word substitute for the given group of words.

Something that is capable of being accomplished

- (a) Feasible
- (b) Untenable
- (c) Irrevocable
- (d) Eligible

**Answer: (a)**

12. Select the most appropriate meaning of the underlined idiom in the given sentence.

The anxious duke was found strolling in the garden to and fro.

- (a) From north to south
- (b) From west to east
- (c) Forward and backward
- (d) Upward and downward

**Answer: (c)**

13. The question below consists of a set of labeled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

P. Basically, "smart farming" is applying information and data technologies for optimizing complex farming systems.

Q. With these tools, farmers can monitor field conditions without going to the field.

R. The focus is on access to data and how farmers can use the collected information intelligently.

S. The technology used in smart farming range from sensors and robotics to drones and AI.

- (a) RSQP
- (b) PQSR
- (c) PRSQ
- (d) SPQR

**Answer: (c)**

14. Select the most appropriate ANTONYM of the given word. Encourage

- (a) Boost
- (b) Inspire
- (c) Energise
- (d) Dishearten

**Answer: (d)**

15. Select the option that can be used as a one-word substitute for the given group of words. The scientific study of plants and their structure

- (a) Plantation
- (b) Environment
- (c) Biology
- (d) Botany

**Answer: (d)**

16. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. The number of students / attending their classes / are constantly decreasing / in our university.

- (a) The number of students
- (b) attending their classes
- (c) in our university
- (d) are constantly decreasing

**Answer: (d)**

17. Select the INCORRECTLY spelt word in the following sentence. The problematic and convoluted situation concerning Rakhtim's job is likely to exhilarate in the foreseeable future.

- (a) convoluted
- (b) foreseeable
- (c) problematic
- (d) exhilarate

**Answer: (b)**

18. Select the most appropriate ANTONYM of the given word. Appropriate

- (a) Transparent
- (b) Improper
- (c) Salient
- (d) Disturbing

**Answer: (b)**

19. A sentence has been given with a blank. Fill it with an appropriate word. Choose the correct alternative. Kajol is one age-defying beauty and her sari collection is worth \_\_\_\_\_.

- (a) bookmarking
- (b) repudiating
- (c) flirting
- (d) renouncing

**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.

Music can improve mood, decrease pain and anxiety, and facilitate opportunities for emotional expression. Research (1)\_\_\_\_\_ that music can benefit our physical and mental health in numerous ways. Music can (2)\_\_\_\_\_ the brain's production of the hormone dopamine. This increased dopamine production helps (3)\_\_\_\_\_ feelings of anxiety and depression. Music is processed directly by the amygdala, which is the part of the brain (4)\_\_\_\_\_ in mood and emotions. By reducing stress levels and providing a strong competing stimulus to the pain (5) \_\_\_\_\_ that enter the brain, music therapy can assist in pain management.

21. Select the most appropriate option to fill in blank 1.

- (a) interprets
- (b) suggests
- (c) dreams
- (d) focuses

**Answer: (b)**

22. Select the most appropriate option to fill in blank 2.

- (a) provide
- (b) furnish
- (c) exhaust
- (d) boost

**Answer: (d)**

23. Select the most appropriate option to fill in blank 3.

- (a) intensify
- (b) amend
- (c) enhance
- (d) relieve

**Answer: (d)**

24. Select the most appropriate option to fill in blank 4.

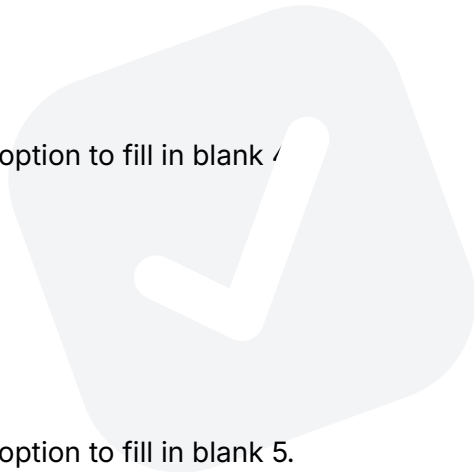
- (a) involved
- (b) concerned
- (c) obsessed
- (d) accompanied

**Answer: (a)**

25. Select the most appropriate option to fill in blank 5.

- (a) deter
- (b) signals
- (c) deform
- (d) substance

**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  | (b) | 2  | (d) | 3  | (c) | 4  | (a) | 5  | (c) | 6  | (d) | 7  | (c) | 8  | (a) |
| 9  | (b) | 10 | (a) | 11 | (d) | 12 | (c) | 13 | (b) | 14 | (c) | 15 | (a) | 16 | (d) |
| 17 | (c) | 18 | (d) | 19 | (a) | 21 | (b) | 22 | (d) | 23 | (a) | 24 | (a) | 25 | (c) |

### General Awareness

|    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|
| 1  | (c) | 2  | (a) | 3  | (b) | 4  | (a) | 5  | (d) | 6  | (c) | 7  | (a) | 8  | (a) |
| 9  | (d) | 10 | (b) | 11 | (a) | 12 | (c) | 13 | (d) | 14 | (b) | 15 | (b) | 16 | (d) |
| 17 | (b) | 18 | (a) | 19 | (b) | 20 | (d) | 21 | (a) | 22 | (d) | 23 | (c) | 24 | (c) |
| 25 | (b) |    |     |    |     |    |     |    |     |    |     |    |     |    |     |

### Quantitative Aptitude

|    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|
| 1  | (d) | 2  | (b) | 3  | (c) | 4  | (c) | 5  | (d) | 6  | (b) | 7  | (a) | 8  | (a) |
| 9  | (a) | 10 | (b) | 11 | (a) | 12 | (d) | 13 | (b) | 14 | (c) | 15 | (c) | 16 | (d) |
| 17 | (b) | 18 | (c) | 19 | (d) | 21 | (c) | 22 | (a) | 23 | (d) | 24 | (d) | 25 | (b) |

### English Comprehension

|    |     |    |     |    |     |    |     |    |     |    |     |    |     |    |     |
|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|----|-----|
| 1  | (c) | 2  | (c) | 5  | (c) | 6  | (a) | 7  | (b) | 8  | (c) | 9  | (c) | 10 | (a) |
| 12 | (c) | 13 | (c) | 14 | (d) | 15 | (d) | 16 | (d) | 17 | (b) | 18 | (b) | 19 | (a) |
| 21 | (b) | 22 | (d) | 23 | (d) | 24 |     | 25 | (b) |    |     |    |     |    |     |