PREVIOUS YEAR PAPER

SSC MTS 2021 — 15 July 2022, Shift 1

SSC MTS & Havaldar · 15 July 2022 · 9:00 AM - 10:30 AM

90 of the paper's 100 questions · marks per question not printed on the response sheet

Left out of the original paper: 10 (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 15 July 2022, 9:00 AM - 10:30 AM. 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-mts/previous-year-papers/ssc-mts-2021-15-jul-shift-1/

General English

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

He has a high paying job, _____ he never seems to have any money.

(a) yet
(b) by
(c) from
(d) so

Answer: (a)

2. Select the most appropriate meaning of the given i n.

That ship has sailed

(a) To arrive early
(b) To reach safely
(c) Too late to do something
(d) Too extreme to follow

Answer: (c)

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

One who has a long experience of any occupation

(a) Reverent
(b) Practitioner
(c) Staunch
(d) Veteran

Answer: (d)

4. Select the correctly spelt word.

(a) Entirely
(b) Entierely
(c) Entierly
(d) Entyrely

Answer: (a)

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

An agreement between enemies or opponents to stop fighting, arguing, etc., for a certain period of time

(a) Unanimous
(b) Graft
(c) Truce
(d) Surplus

Answer: (c)

6. Parts of the given sentence have been given as options. 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' as your answer.

It feels greatly to be with you at this ceremony.

(a) at this ceremony
(b) to be with you
(c) It feels greatly
(d) No error

Answer: (c)

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

One who knows all

(a) Topper
(b) Bully
(c) Anarchist
(d) Omniscient

Answer: (d)

8. Select the most appropriate option to fill in the blank.

Yesterday, after a nice walk, we _____ to sit on the bench, watch the birds, and rest for a while.

(a) decided
(b) decide
(c) decides
(d) deciding

Answer: (a)

9. Select the most appropriate option to fill in the blank.

The _____ of directors will decide the penalty.

(a) bowed
(b) braid
(c) bored
(d) board

Answer: (d)

10. Select the most appropriate option to fill in the blank.

Accuracy rates of facial recognition algorithms are _____ low in the case of minorities, women and children, as demonstrated in multiple studies across the world.

(a) smoothly
(b) Carelessly
(c) Particularly
(d) Beautifully

Answer: (c)

11. Select the most appropriate option to fill in the blank.

I prefer to listen to relaxing and _____ music when meditating.

(a) soothing
(b) abrading
(c) fretting
(d) tormenting

Answer: (a)

12. Select the most appropriate synonym of the given word.

Erring

(a) Blundering
(b) Tidy
(c) Sloppy
(d) Flawless

Answer: (a)

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

Carrying an umbrella is not at all a good idea during thunderstorms.

(a) Carried an umbrella
(b) Carry an umbrella
(c) No improvement required
(d) Carrying a umbrella

Answer: (c)

14. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

The earthy / fragrance of soil / after a first rain / is always refreshing.

(a) is always refreshing
(b) fragrance of soil
(c) The earthy
(d) after a first rain

Answer: (d)

15. Select the correctly spelt word.

(a) Unrravel
(b) Equilibrium
(c) Compeling
(d) Esctasy

Answer: (b)

17. Select the most appropriate option to fill in the blank.

The reality of the effects of rising aviation industry emissions on climate change has been known for decades, yet the industry and its emissions has continued to grow without _____.

(a) easiness
(b) neglect
(c) constraint
(d) comfort

Answer: (c)

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

Abundant

(a) Surplus
(b) Scarce
(c) Brilliant
(d) Rich

Answer: (b)

19. 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' as your answer.

He got afflicted with the disease / when he was / a teenager.

(a) No error
(b) He got afflicted with the disease
(c) a teenager
(d) when he was

Answer: (a)

20. Select the most appropriate synonym of the given word.

Penniless

(a) Broke
(b) Reckless
(c) Cranky
(d) Wealthy

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.
>
> Anthony Abraham, a 34-year-old crane driver, (1) _____ managed to get out of the way of falling steel. Turning around, he could hardly believe the (2) _____ scene that lay before him. Girders were (3) _____ on top of the crane in a haphazard fashion, like gigantic pick up sticks. All he could see of the machine was its rear wheels and a section of what had been the cab. Abraham (4) _____ to the cab, shouting his friend George Burns' name. By then, three other iron workers had reached the (5) _____ of the carnage. One of them yelled, 'George, can you hear me?' Over the din of the diesel engine, a strained voice responded.

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

(a) substantially
(b) simultaneously
(c) barely
(d) rarely

Answer: (c)

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

(a) criminal
(b) crooked
(c) pleasant
(d) horrible

Answer: (d)

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

(a) dived
(b) piled
(c) duped
(d) riled

Answer: (b)

24. Select the most appropriate option to fill in blank number 4.
    (a) shoved
    (b) raced
    (c) halted
    (d) assisted
    Answer: (b)

25. Select the most appropriate option to fill in blank number 5.
    (a) sign
    (b) trace
    (c) scene
    (d) sight
    Answer: (c)

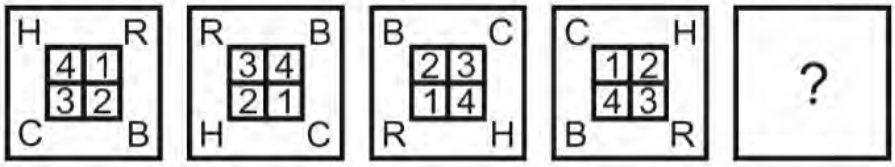
General Intelligence and Reasoning

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

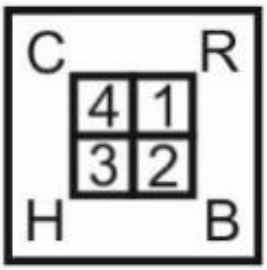
NB, OA, PZ, QY, ?
    (a) RX
    (b) WR
    (c) RW
    (d) RS
    Answer: (a)

2.

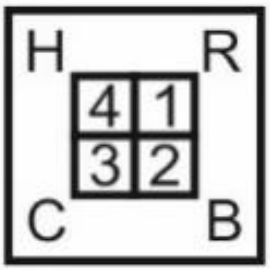
Select the figure from among the given options that can replace the question mark (?) in the following series.



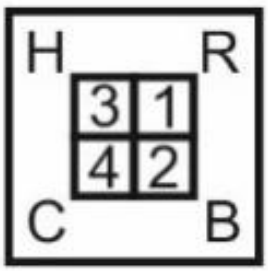
(a)



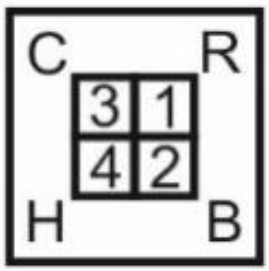
(b)



(c)



(d)



Answer: (b)

3. 6 persons S, O, K, U, T and A are sitting around a circular table facing towards the centre (not necessarily in the same order). S is sitting second to the right of A. Only one person is sitting between O and U. T is sitting to the immediate right of K. Only two persons are sitting between O and A. Who is sitting third to the left of K?

(a) U
(b) A
(c) S
(d) T

Answer: (a)

4. 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.

REAS : SGDW :: ABRO : BDUS :: MOBI : ?

(a) NPEM
(b) LQEM
(c) NQEM
(d) NPDM

Answer: (c)

5. There are eight persons, A, B, C, D, E, F, G and H, all having different weights. Only two persons are lighter than F. F is heavier than A but lighter than [illegible] is lighter than E but heavier than G. H is lighter than A. C is heavier than E. C is not the heavi[illegible] person. The weights of the second heaviest and the second lightest persons are 78 kg and 48 k[illegible] espectively. How many persons are lighter than the person who is just lighter than D?

(a) One
(b) Three
(c) Four
(d) Two

Answer: (b)

6. 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 cricketers are sportspersons. Some players are sportspersons.

Conclusions:
I. No cricketer is a player.
II. Some cricketers are players.

(a) Only conclusion I follows
(b) Only conclusion II follows
(c) Either conclusion I or II follows
(d) Both conclusions I and II follow

Answer: (c)

7. 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:
I. No X is W.
II. Some R are X.

Conclusions: I.Some W are not X. II. No W is R.

(a) Both conclusions I and II follow
(b) Only conclusion II follows
(c) Only conclusion I follows
(d) Neither conclusion I nor II follows

Answer: (c)

8. If '–' stands for '×', '+' stands for'÷' and '÷' stands for '–', then what will be the value of 812 + 58 – 65 + 26 – 2 = ?

(a) 70
(b) 90
(c) 30
(d) 50

Answer: (a)

9. Select the option that is related to the fifth numbe the same way as the second number is related to the first number and the fourth number is ated to the third number.

232 : 21 :: 343 : 30 :: 157 : ?

(a) 42
(b) 33
(c) 36
(d) 39

Answer: (d)

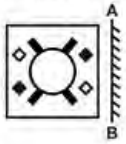
10. In a certain code language, if mustard is called fruit, fruit is called potato, potato is called burger, burger is called flower, and flower is called rice, then what is rose?

(a) potato
(b) rice
(c) flower
(d) fruit

Answer: (b)

11.

Select the correct mirror image of the given figure when the mirror is placed at the right side.



(a)



(b)



(c)



(d)



Answer: (b)

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

100, 98, 104, 92, 112, ?

(a) 108

(b) 82

(c) 72

(d) 64

Answer: (b)

13.

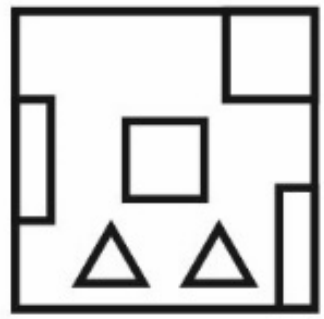
Select the correct mirror image of the given figure when the mirror is placed at AB as shown.



(a)



(b)



(c)



(d)



Answer: (a)

14. Which of the mathematical signs should be interchanged in the given equation to make it mathematically correct?

12 + 66 ÷ 11 − 4 × 91 = 159

(a) ÷ and ×

(b) + and −

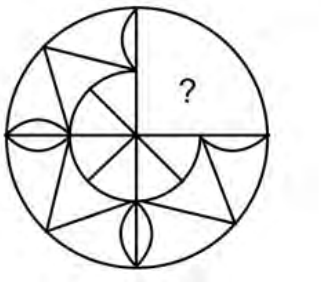
(c) + and ×

(d) + and ÷

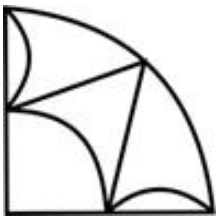
Answer: (c)

15.

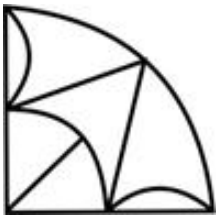
Select the figure from the options that can replace the question mark (?) and complete the given pattern.



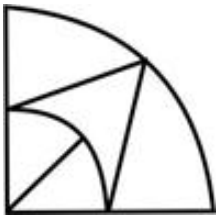
(a)



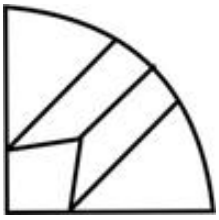
(b)



(c)



(d)



Answer: (b)

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

39, 78, 117, 156, ?, 234

(a) 205

(b) 195

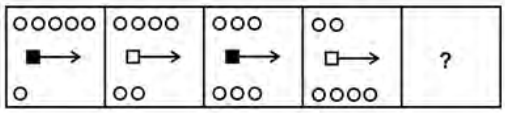
(c) 185

(d) 175

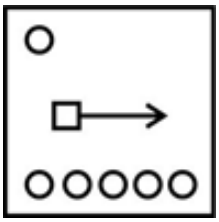
Answer: (b)

17.

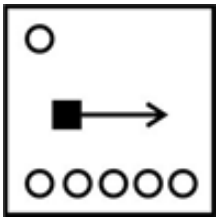
Select the figure from among the given options that can replace the question mark (?) in the following series.



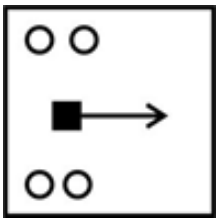
(a)



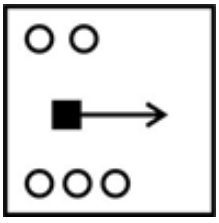
(b)



(c)



(d)



Answer: (b)

18.

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



(a)



(b)



(c)



(d)



Answer: (a)

19. 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.

BDF : ACE :: NPR : MOQ :: VXZ : ?

(a) UVY

(b) TUW

(c) UWY

(d) WUY

Answer: (c)

20. In a certain code language, 'TIK' is coded as '40', 'PDM' is coded as '33'. How will 'RUG' be coded in that code language?

(a) 47
(b) 44
(c) 46
(d) 45

Answer: (c)

21. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

KTM : PGN :: ABC : ?

(a) ZWY
(b) ZYW
(c) ZYX
(d) ZXY

Answer: (c)

22. In a certain code language, 'SHAPE' is coded as 'VKDSH'. How will 'MODEL' be coded in that language?

(a) OPFGN
(b) PRGHO
(c) QRHIP
(d) CFAHW

Answer: (b)

23. In a certain code language, 'ACADEMIC' is written as 'AACEDIMC', 'ABSTRACT' is written as 'ASBRTCAT', and 'ACCURACY' is written as 'ACCRUCAY'. How will 'ABACAS' be written in that language?

(a) ABCAAS
(b) AAABCS
(c) ABAACS
(d) AABACS

Answer: (d)

24. Seven persons – G, M, R, K, L, P and C – are sitting around a circular table facing the centre. The following information is known about them. G is to the immediate right of K, who is third to the left of C. R is adjacent to both C and P. M is not adjacent to G. Who is third to the left of M?

(a) C
(b) L
(c) R
(d) G

Answer: (a)

25. Select the option in which the two numbers are related in the same way as are the numbers in the given number-pair.

248 : 428

(a) 428 : 824

(b) 268 : 628

(c) 462 : 264

(d) 284 : 842

Answer: (b)

Numerical Aptitude

2.

$P = 2^5 \times 3^8$ and $Q = 2^3 \times 3^K$. If the highest common factor of P and Q is $2^3 \times 3^3$, then what is the value of K?

(a)

1

(b)

2

(c)

3

(d)

5

Answer: (c)

4.

A bus can travel 20% faster than a scooter. Both start from point P at the same time, and reach point Q, 60 km away from point P, at the same time. On the way, however, the bus lost about 10 minutes while stopping at bus stations, while the scooter did not stop anywhere. What is the speed of the bus?

(a)

68 km/h

(b)

80 km/h

(c)

60 km/h

(d)

72 km/h

Answer: (d)

6.

In an election between 2 candidates, the winning candidate gets 2940 valid votes, while the losing candidate gets 40% of the valid votes. If 2% of the votes polled were declared invalid, then what is the total number of votes polled?

(a)

4500

(b)

5000

(c)

6000

(d)

5500

Answer: (b)

7.

What is the height of a cylinder whose radius of base is 12 cm and volume is 19008 cm^3? [Use $\pi = \frac{22}{7}$]

(a)

6 cm

(b)

24 cm

(c)

38 cm

(d)

42 cm

Answer: (d)

8.

When 8 is added to the numerator of a fraction and 12 is added to its denominator, the fraction becomes $\frac{1}{2}$. When 2 is subtracted from its numerator and denominator, the fraction becomes $\frac{1}{8}$. Find the original fraction.

(a)

$\frac{9}{19}$

(b)

$\frac{3}{10}$

(c)

$\frac{4}{7}$

(d)

$\frac{5}{11}$

Answer: (b)

9.

If on a certain sum, the simple interest for 4 years is ₹2,000, then what is the simple interest for 6 years on the same sum?

(a)

₹3,500

(b)

₹3,000

(c)

₹4,000

(d)

₹2,800

Answer: (b)

10.

P is increased successively by 15% and 20% to get Q. If P = 200, then what is the value of Q?

(a)

266

(b)

284

(c)

276

(d)

292

Answer: (c)

11.

Vinay purchased two bottles for a total of ₹100, and he sells these two bottles at the rate of ₹100 per bottle. What is the overall profit percentage that Vinay had on selling the two bottles?

(a)

50%

(b)

100%

(c)

200%

(d)

80%

Answer: (b)

13.

What is the value of $\frac{17-8\times5+4\times3}{5\times3\div6+2\times4}$?

(a)

$\frac{-25}{21}$

(b)

$\frac{-22}{21}$

(c)

$\frac{-5}{6}$

(d)

$\frac{-8}{7}$

Answer: (b)

15.

A, B and C together can do a piece of work in 6 days. A and B together can do the same work in 12 days. B alone can do the same work in 18 days. In how many days can A and C together do the work?

(a)

9 days

(b)

10.5 days

(c)

8 days

(d)

7.5 days

Answer: (a)

16.

A can do a piece of work alone in 40 days. A and B together can do the same work in 10 days. C is 50% less efficient than B. In how many days can A and C together complete the same work?

(a)

20 days

(b)

24 days

(c)

16 days

(d)

12 days

Answer: (c)

17.

What will be the average of all the prime numbers between 9 and 22?

(a)

14

(b)

15

(c)

10

(d)

12

Answer: (b)

18.

5 times of the perimeter of a square is 600 cm. What will be the area of this square?

(a)

900 cm^2

(b)

1150 cm^2

(c)

750 cm^2

(d)

480 cm^2

Answer: (a)

19.

What is the average of the first 10 prime numbers?

(a)

10.9

(b)

12.9

(c)

11.9

(d)

13.9

Answer: (b)

22.

A leaves station P at 8:00 a.m. and reaches station Q at 11:00 a.m. B leaves station Q at 9:00 a.m. and reaches station P at 11:00 a.m. At what time will they cross each other?

(a)

10:00 a.m.

(b)

10:05 a.m.

(c)

9:48 a.m.

(d)

9:52 a.m.

Answer: (c)

23.

The following table shows the number of students of class 6, class 7, class 8, class 9 and class 10, in schools A, B and C.

Class / School	Class 6	Class 7	Class 8	Class 9	Class 10
School A	25	45	35	55	80
School B	65	45	55	45	20
School C	35	65	40	25	30

What is the total number of students in class 9 and class 10, taken together, in school B?

(a)

55

(b)

100

(c)

135

(d)

65

Answer: (d)

24.

Two numbers are, respectively, 25% and 30% less than a third number. What is the ratio of the first two numbers, in the order mentioned in the previous statement?

(a)

6 : 5

(b)

5 : 6

(c)

14 : 15

(d)

15 : 14

Answer: (d)

25.

The area of a square is 144 cm^2. What is the length of each of its diagonals?

(a)

$14\sqrt{2}$ cm

(b)

$6\sqrt{2}$ cm

(c)

$12\sqrt{2}$ cm

(d)

12 cm

Answer: (c)

General Awareness

1. Which of the following animals does NOT have a backbone?

(a) Frog

(b) Human

(c) Spider

(d) Pigeon

Answer: (c)

2. According to the fundamental duties giv[illegible] th[illegible]dian Constitution, it shall be the duty of every citizen of India to uphold and protect the sove[illegible]/, ____ of India.

(a) liberty and equality

(b) unity and integrity

(c) equality and fraternity

(d) spirituality and unity

Answer: (b)

3. Which of the following state governments announced a four-year mentorship programme called 'Project Arohan', to provide guidance to students and improve their skills, in February 2022?

(a) Assam

(b) Uttar Pradesh

(c) Karnataka

(d) Himachal Pradesh

Answer: (a)

4. The remains of the dead plants and animals trapped in the layers of rocks are called _____.

(a) manures
(b) moulds
(c) fossils
(d) remnants

Answer: (c)

5. Who won the men's singles title in Australian Open 2022?

(a) Rafael Nadal
(b) Stefanos Tsitsipas
(c) Matteo Berrettini
(d) Daniil Medvedev

Answer: (a)

7. The Census of India provides us with information regarding _____.

(a) industrial production
(b) pollution
(c) food security
(d) the population

Answer: (d)

8. Which of the following financial institutions of India protects the interests of the investors and facilitates the functioning of the stock market intermediaries?

(a) Small Industries Development Bank of India (SIDBI)
(b) India Infrastructure Finance Company Ltd. (IIFCL)
(c) National Housing Bank (NHB)
(d) Securities and Exchange Board of India (SEBI)

Answer: (d)

10. Ustad Allarakha Qureshi, also known as Alla Rakha, was associated with which musical instrument?

(a) Piano
(b) Tabla
(c) Sarod
(d) Flute

Answer: (b)

11. Where does the Eastern Coastal Plain of India lie?

(a) Between Diu and Kerala
(b) Between the Eastern Ghats and the Bay of Bengal
(c) Between the Gulf of Cambay and Cape Comorin
(d) Between Maharashtra and Kerala

Answer: (b)

12. Which of the following persons was appointed as the Commissioner of Delhi Police in July 2021?

(a) Kiran Bedi
(b) Rakesh Asthana
(c) Athar Aamir Khan
(d) Tina Dabi

Answer: (b)

13. The _____ is an Act of the Parliament of the United Kingdom that partitioned British India into two new independent dominions of India and Pakistan in 1947.

(a) Industrial Disputes Act
(b) Government of India Act
(c) Indian Independence Act
(d) Rowlatt Act

Answer: (c)

14. In which year did Babur defeat Rana Sanga at Khanua?

(a) 1531
(b) 1527
(c) 1529
(d) 1525

Answer: (b)

15. Ancient Harappan site 'Lothal' was found in which state of India?

(a) Gujarat
(b) Rajasthan
(c) Maharashtra
(d) Madhya Pradesh

Answer: (a)

16. With which of the following Indian classical dance forms was T Balasaraswati associated?

(a) Kathak
(b) Kathakali
(c) Bharatanatyam
(d) Manipuri

Answer: (c)

17. In which year did Mahatma Gandhi first introduce a nationwide satyagraha in India?

(a) 1915
(b) 1921
(c) 1919
(d) 1916

Answer: (c)

18. Recommended Dietary Allowances = ?
    (a) Balanced diet – Extra nutrients
    (b) Requirements + Margin of safety
    (c) Extra nutrients
    (d) Intermittent fasting + Extra nutrients
    Answer: (b)

19. Which of the following sports was NOT played at the 2020 Summer Olympic Games (played in 2021)?
    (a) Cricket
    (b) Shooting
    (c) Football
    (d) Hockey
    Answer: (a)

20. As of April 2022, amongst others, Legislative Councils are present in the states of _____.
    (a) Meghalaya, Punjab and Goa
    (b) Uttar Pradesh, Bihar and Maharashtra
    (c) Chhattisgarh, Delhi and Goa
    (d) Tamil Nadu, West Bengal and Gujarat
    Answer: (b)

21. Who among the following was the founder of the unga Dynasty (185 BC - 73 BC)?
    (a) Bhagabhadra
    (b) Agnimitra
    (c) Vasumitra
    (d) Pushyamitra
    Answer: (d)

22. Which famous Indian Kathak dancer received the 'Padma Vibhushan' in 1986?
    (a) Rukmini Devi Arundale
    (b) Mallika Sarabhai
    (c) Guru Bipin Singh
    (d) Pandit Birju Maharaj
    Answer: (d)

23. The Festival of Salhesh is celebrated in the state of:
    (a) Tamil Nadu
    (b) Punjab
    (c) Gujarat
    (d) Bihar
    Answer: (d)

24. When was the latest census conducted in India?
    (a) 2021
    (b) 2005
    (c) 2001
    (d) 2011
    Answer: (d)

25. Which of the following neighbours of India has the highest population density?
    (a) Bangladesh
    (b) Sri Lanka
    (c) China
    (d) Pakistan
    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 English

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

General Intelligence and Reasoning

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

Numerical Aptitude

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

General Awareness

1	**(c)**	2	**(b)**	3	**(a)**	4	**(c)**	5	**(a)**	7	**(d)**	8	**(d)**	10	**(b)**		
11	**(b)**	12	**(b)**	13	**(c)**	14	**(b)**	[illegible]	**(a)**	16	**(c)**	17	**(c)**	18	**(b)**		
19	**(a)**	20	**(b)**	21	**(d)**	22	[illegible]3		**(d)**	24	**(d)**	25	**(a)**				