PREVIOUS YEAR PAPER

SSC MTS 2021 — 12 July 2022, Shift 3

SSC MTS & Havaldar · 12 July 2022 · 5:00 PM - 6:30 PM

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

Left out of the original paper: 7 (any question that needs a figure or formatting we cannot show, has no answer in the response sheet, or could not be checked against a second copy of the paper).

Questions from the Staff Selection Commission's paper of 12 July 2022, 5:00 PM - 6:30 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-mts/previous-year-papers/ssc-mts-2021-12-jul-shift-3/

General English

1. Parts of the following 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.

Elizabeth beat her rival with the gold medal in the 2021 summer Olympics.

(a) with the gold medal in the
(b) 2021 summer Olympics
(c) Elizabeth beat her rival
(d) No error

Answer: (a)

2. Select the most appropriate synonym of the give ord.

Grieve

(a) Tame
(b) Assure
(c) Rejoice
(d) Mourn

Answer: (d)

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

Insatiable

(a) Urgent
(b) Fulfilled
(c) Greedy
(d) Insistent

Answer: (b)

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

Green tea is good for not only the health but also for _____ skin.

(a) glowing
(b) emotional
(c) caustic
(d) laborious

Answer: (a)

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

Major hubs of the information technology industry is the Silicon Valley of Central California.

(a) No improvement required
(b) A major hub of
(c) Major hub by
(d) The majors hub of

Answer: (b)

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

My mother's sister work since eight hours every week.

(a) working of eight
(b) works for eight
(c) work for eight
(d) No improvement required

Answer: (b)

7. Select the INCORRECTLY spelt word.

(a) Mismatche
(b) Securities
(c) Essentially
(d) Fiscal

Answer: (a)

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

Story of an individual written by himself

(a) Biography
(b) History
(c) Novel
(d) Autobiography

Answer: (d)

9. 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.

India has joined / the global fight / among tax evasion.

(a) the global fight
(b) among tax evasion
(c) No error
(d) India has joined

Answer: (b)

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

I like eating chocolates, _____ I hate dark ones.

(a) for
(b) but
(c) because
(d) while

Answer: (b)

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

We made sure our new house were closer to a good mary school when moving home last summer.

(a) was close
(b) No substitution required
(c) were closed
(d) was closing

Answer: (a)

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

The situation turned ugly as the crowd _____ to riot.

(a) begins
(b) begun
(c) beginning
(d) began

Answer: (d)

13. Select the most appropriate synonym of the underlined word in the given sentence.

Some simple changes in eating habits can alleviate nausea.

(a) sharpen
(b) plague
(c) exacerbate
(d) relieve

Answer: (d)

15. Select the most appropriate meaning of the given idiom.

Hold someone or something at bay

(a) Trap or corner a person or animal being hunted or chased
(b) To seek punishment for a person or group
(c) Prevent someone or something from moving closer
(d) To thrive or to grow very successfully

Answer: (c)

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

I _____ wish I hadn't invited him.

(a) about
(b) else
(c) almost
(d) not

Answer: (c)

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

Alleviate

(a) Soothe
(b) Ameliorate
(c) Aggravate
(d) Destroy

Answer: (c)

18. Parts of the following 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.

She is brave than any other girl in the office.

(a) She is brave
(b) in the office
(c) No error
(d) than any other girl

Answer: (a)

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

Why are you looking on my face like this?

(a) looked at my
(b) No improvement required
(c) looking on mine
(d) looking at my

Answer: (d)

20. Select the option that corrects the incorrectly spelt words in the given sentence.

Ventilaton system is mising in this room.

(a) Ventiltion system is missing in this room.
(b) Ventilation system is mising in this rum.
(c) Ventilation system is missing in this room.
(d) Wentilation system is mesing in this room.

Answer: (c)

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.
>
> Ants, like most insects, have (1) _____ are known as c pound eyes. This means their eyes have multiple lenses, (2) _____ in general, most species o t do not have particularly great eyes for seeing (3) _____ far. Ants can detect movement and see th reas around them, but (4) _____ more on senses and information they get from their legs an (5) _____ from their eyes.

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

(a) whose
(b) how
(c) what
(d) who

Answer: (c)

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

(a) whether
(b) so
(c) but
(d) rather

Answer: (c)

23. Select the most appropriate option to fill in blank number 3.
    (a) some
    (b) many
    (c) enough
    (d) very
    Answer: (d)

24. Select the most appropriate option to fill in blank number 4.
    (a) calculate
    (b) shout
    (c) rely
    (d) struggle
    Answer: (c)

25. Select the most appropriate option to fill in blank number 5.
    (a) than
    (b) when
    (c) then
    (d) thus
    Answer: (a)

General Intelligence and Reasoning

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

34, 102, 612, 5508, ?
    (a) 64046
    (b) 68098
    (c) 66096
    (d) 68026
    Answer: (c)

2. In a supermarket there are seven toys, A, K, L, P, M, S and T, of different heights. L is taller than S, but shorter than M. K is taller than P. A is taller than only T. L is shorter than only three toys. T is the shortest and M is taller than K. The height of S is shorter than how many toys?
    (a) Two
    (b) Three
    (c) Four
    (d) One
    Answer: (c)

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

45, 46, 50, 59, 75, ?

(a) 95

(b) 100

(c) 105

(d) 90

Answer: (b)

4. In a certain code language, 'KING' is coded as '16181320', and 'HOP' is coded as '191211'. How will 'STA' be coded in that language?

(a) 8627

(b) 8926

(c) 8276

(d) 8726

Answer: (d)

5.

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



(a)



(b)



(c)



(d)



Answer: (c)

6.

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



(a)



(b)



(c)



(d)



Answer: (b)

7. Select the option that is related to the fourth numb n the same way as the first number is related to the second number and fifth number is re ed to sixth number.

11 : 1000 :: ? : 1728 :: 9 : 512

(a) 15

(b) 7

(c) 5

(d) 13

Answer: (d)

8. In a certain code language, 'GREATR' is written as 'OZMIBZ', and 'POINTA' is written as 'XWQVBI'. How will 'FORTAP' be written in that language?

(a) NWZBHY

(b) NWZBIX

(c) NYZBIX

(d) NXZBIX

Answer: (b)

9. Six friends A, B, C, D, E and F are sitting around a circular table facing the centre (not necessarily in the same order). A sits third to the left of D. D sits to the immediate right of B. B sits second to the left of E. C sits second to the right of F. Who sits second to the right of A?

(a) C
(b) B
(c) E
(d) F

Answer: (b)

10. 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: No basket is a trolley. No trolley is a suitcase.

Conclusions:
I. Some baskets being suitcases is a possibility.
II. Some suitcases are baskets.

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

Answer: (a)

11. After interchanging the given two digits 4 and 6, at will be the value of the following equation?

5 + 3 × 4 – 6 ÷ 2 = ?

(a) 15
(b) 21
(c) 41
(d) 35

Answer: (b)

12. What will come in the place of '?' in the following equation, if '×' and ' – ' are interchanged and also '+' and '÷' are interchanged?

27 × 8 – 3 ÷ 4 + 2 = ?

(a) 5
(b) 2
(c) 1
(d) 7

Answer: (a)

13. Eight girls A, B, C, D, E, F, G and H are sitting in a row, facing towards the north (but not necessarily in the same order). Neither C nor D is at the extreme ends of the row. H is at the extreme right end of the row. Only E is sitting between D and F. Only G is sitting between F and H. C and A are the immediate neighbours of B.Which of the following statements is/are correct?

I. D is fourth to the left of H. II. D is the immediate neighbour of B.

(a) Only I

(b) Both I and II

(c) Only II

(d) Neither I nor II

Answer: (a)

14. 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 L.
II. All M are X.

Conclusions: I. No L is X. II. No L is M.
III. All M are L.

(a) All the conclusions follow

(b) Only conclusion III follows

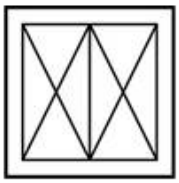
(c) Only conclusions I and II follow

(d) Only conclusions II and III follow

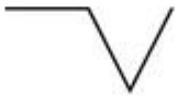
Answer: (c)

15.

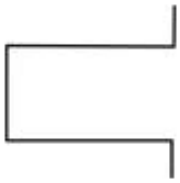
Select the option that is embedded in the given figure (rotation is NOT allowed).



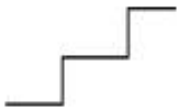
(a)



(b)



(c)



(d)



Answer: (a)

16. In a certain code language, 'BALL' is coded as '27' and 'BACK' is coded as '17'. How will 'RACE' be coded in that language?

(a) 27

(b) 22

(c) 17

(d) 37

Answer: (a)

17. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

AAI, AEI, AII, AOI, ?

(a) AUI

(b) EAI

(c) IAA

(d) IIA

Answer: (a)

18. Select the option 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)

(48, 8, 12) (42, 6, 14)

(a) (88, 22, 4)

(b) (62, 12, 2)

(c) (44, 22, 4)

(d) (36, 18, 2)

Answer: (c)

19.

Select the figure from the options that can replace the question mark (?) and complete the pattern (rotation is NOT allowed).



(a)



(b)



(c)



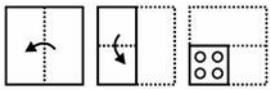
(d)



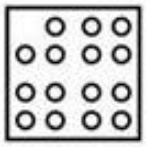
Answer: (a)

20.

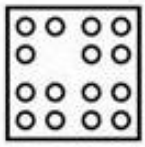
The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



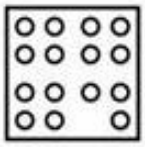
(a)



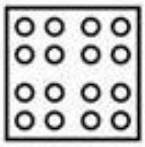
(b)



(c)



(d)



Answer: (d)

21. In a certain code language, 'EARTH' is written as '5118208' and 'BOOK' is written as '2151511'. How will 'COUNTRY' be written in that language?

(a) 3152114201825

(b) 3152114201725

(c) 3152114191825

(d) 3152114201824

Answer: (a)

22. 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.

BJ : HP :: TQ : ?

(a) YW

(b) YX

(c) ZX

(d) ZW

Answer: (d)

23. Select the option in which the pair of letter-clusters share the same relationship as that shared by the given letter-clusters.

FAIR : GYJP

(a) RANK : SYPI

(b) TOUR : UNVP

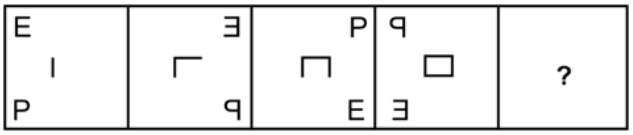
(c) CROW : DPPU

(d) MINT : NGMR

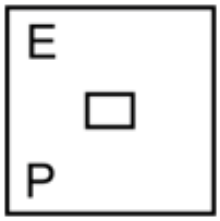
Answer: (c)

24.

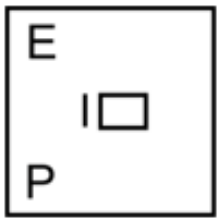
Select the figure from among the given options that can replace the question mark (?) in the following series.



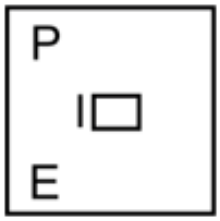
(a)



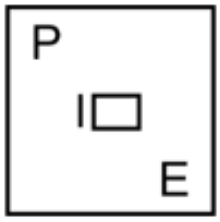
(b)



(c)



(d)



Answer: (b)

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.

MET : NGW :: SAF : TCI :: YEL : ?

(a) AGO

(b) ZGN

(c) ZHO

(d) ZGO

Answer: (d)

Numerical Aptitude

1.

If a store room of a house is in the shape of a cuboid having a length of 3 m, a width of 2 m, and a height of 4m, find the total area of its four walls.

(a)

$50\ m^2$

(b)

$20\ m^2$

(c)

$40\ m^2$

(d)

$24\ m^2$

Answer: (c)

2.

The following table shows the number of bundles of iron bars of 5 different brands sold from a shop during a given week.

Brand	Bundles
B1	60
B2	50
B3	40
B4	45
B5	55

The number of iron bars in each bundle of B1 and B3 is 5. The number of iron bars in each bundle of B2, B4 and B5 is 4. What is the total number of iron bars sold from the shop during that week of all the 5 brands taken together?

(a)

1100

(b)

1200

(c)

1150

(d)

1250

Answer: (a)

3.

While going to office, Sneha travels at a speed of 10 km/h and on her way , she travels at a speed of 15 km/h. What is her average speed for the whole journey?

(a)

14 km/h

(b)

12 km/h

(c)

11 km/h

(d)

13 km/h

Answer: (b)

4.

The heights of six people are given as 6 feet 6 inches, 6 feet, 5 feet 8 inches, 6 feet 2 inches, 6 feet 4 inches, and 5 feet 10 inches, respectively. Find the average height of these six people.

(a)

6 feet 4 inch

(b)

6 feet

(c)

6 feet 1 inch

(d)

6 feet 6 inch

Answer: (c)

5.

If $A = 2^3 \times 3^7$, $B = 2^7 \times 3^5$ and $C = 2^8 \times 3^4$, then what is the least common multiple of A, B and C?

(a)

$2^7 \times 3^7$

(b)

$2^6 \times 3^7$

(c)

$2^8 \times 3^7$

(d)

$2^9 \times 3^7$

Answer: (c)

6.

The price of sugar increases by 15%. By what percentage should the consumption of sugar be decreased so that the expenditure on the purchase of sugar remains the same? [Give your answer correct to 2 decimal places.]

(a)

11.11%

(b)

12.5%

(c)

14.16%

(d)

13.04%

Answer: (d)

7.

Simplify the following expression.

$12 + 2.5 + (1.5 \text{ of } 4) - 2.6$

(a)

17.9

(b)

18.9

(c)

18.1

(d)

17.1

Answer: (a)

8.

A rectangular LCD has an area of 480 cm^2 and a perimeter of 92 cm. If the size of the LCD is defined in term of length of the diagonal, then what is the size of the LCD?

(a)

34 cm

(b)

39 cm

(c)

31 cm

(d)

35 cm

Answer: (a)

10.

The marked price of an item was ₹5,000. While selling the item, the seller offered successive discounts of 15% and 5%. What was the final selling price of the item?

(a)

₹4,730

(b)

₹4,370.50

(c)

₹4,250

(d)

₹4,037.50

Answer: (d)

11.

If 30% of a = b, then b% of 50 is the same as:

(a)

5% of a

(b)

10% of a

(c)

15% of a

(d)

12% of a

Answer: (c)

13.

42 boys can complete a piece of work in 20 days working 8 hours per day. In how many days can 14 boys complete the same work, each boy working 12 hours per day?

(a)

39 days

(b)

40 days

(c)

41 days

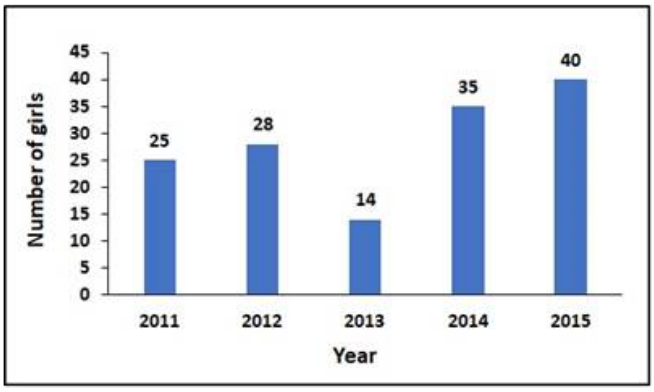
(d)

42 days

Answer: (b)

14.

The following bar graph shows the number of girls in a school over 5 years.



Find the percentage decrease in the number of girls from the year 2012 to the year 2013.

(a)

50%

(b)

40%

(c)

20%

(d)

30%

Answer: (a)

15.

If the circumference of a circle is equal to the perimeter of a square, a... ...e radius of the given circle is positive, then which of the following options is correct?

(a)

Area of the circle > Area of the square

(b)

Area of the circle ≥ Area of the square

(c)

Area of the circle < Area of the square

(d)

Area of the circle = Area of the square

Answer: (a)

16.

What should come in place of the question mark (?) in the following mathematical statement?

$?^3 \div 16 = 108$

(a)

10

(b)

17

(c)

12

(d)

8

Answer: (c)

17.

What will be the ratio of the interests earned by identical sum of money invested at the same rate of simple interest for 6 years and for 15 years respectively?

(a)

3 : 5

(b)

5 : 3

(c)

5 : 2

(d)

2 : 5

Answer: (d)

18.

The selling price and the cost price of an article are ₹6,000 and ₹5,000, respectively. What is the profit percentage?

(a)

25%

(b)

10%

(c)

20%

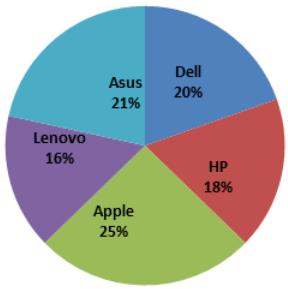
(d)

15%

Answer: (c)

19.

The following pie chart shows the percentage-wise distribution of the nominal sales figures of laptops of five different companies during a given period.



If the total sales of all the companies taken together is ₹55,00,000, then find the difference between the sales of HP and Apple.

(a)

₹3,65,000

(b)

₹7,50,000

(c)

₹4,25,000

(d)

₹3,85,000

Answer: (d)

20.

A man rows from J to K (upstream) and back from K to J (downstream) in a total time of 15 hours. The distance between J and K is 300 km. The time taken by the man to row 9 km downstream is identical to the time taken by him to row 3 km upstream. What is the approximate speed of the boat in still water?

(a)

51.33 km/h

(b)

47.67 km/h

(c)

53.33 km/h

(d)

43.67 km/h

Answer: (c)

22.

In a bag, there are coins of 25 p, 10 p and 5 p in the ratio of 2 : 3 : 5 respectively. If the value of all the coins is ₹5.25, then how many 5 p coins are there in the bag?

(a)
25

(b)
15

(c)
45

(d)
35

Answer: (a)

General Awareness

1. According to the Indian Constitution, the House of People shall consist of not more than _____ members to represent the Union territories.

(a) thirty
(b) twenty
(c) fifteen
(d) thirty-five

Answer: (b)

2. In which state of India is the Wangala festival celebrated?

(a) Meghalaya
(b) Kerala
(c) Goa
(d) Jharkhand

Answer: (a)

3. Who among the following Chahamana ruler defeated Sultan Muhammad Ghori in 1191?

(a) Vigraharaja III
(b) Ajayaraja II
(c) Prithviraja III
(d) Durlabharaja III

Answer: (c)

4. In which year was Sati banned in India?

(a) 1829
(b) 1824
(c) 1826
(d) 1831

Answer: (a)

5. Who among the following was the founder of the Rashtrakuta dynasty?

(a) Dhruva
(b) Dhantidurga
(c) Govinda III
(d) Amoghavarsha

Answer: (b)

6. 'The White Tiger provides' a darkly humorous perspective of India's class struggle in a globalised world. It is written by _____.

(a) Shashi Tharoor
(b) Amitav Ghosh
(c) Aravind Adiga
(d) Vikram Seth

Answer: (c)

7. In basketball, a free-throw is worth how many points?

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

Answer: (a)

8. Bidar Fort is situated in which state of India?

(a) Gujarat
(b) Rajasthan
(c) Meghalaya
(d) Karnataka

Answer: (d)

9. Which of the following is NOT an example of Pteridophyta?

(a) Funaria
(b) Selaginella
(c) Equisetum
(d) Pteris

Answer: (a)

10. The plate movements on earth are classified into _____ types.

(a) three
(b) two
(c) five
(d) six

Answer: (a)

11. Who among the following became the Brand Ambassador of Khadi Prakritik Paint in July 2021?
(a) Narendra Singh Tomar
(b) Rajnath Singh
(c) Nitin Gadkari
(d) Arjun Munda
Answer: (c)

12. How many organs of government are there according to the Indian Constitution?
(a) Two
(b) Four
(c) One
(d) Three
Answer: (d)

13. The Indian census is generally held every _____.
(a) tenth year
(b) fourth year
(c) fifth year
(d) seventh year
Answer: (a)

14. As announced in the Union Budget of Financial Ye 2022, corporate surcharge was reduced from 12% to _____.
(a) 7%
(b) 8%
(c) 1%
(d) 9%
Answer: (a)

15. As per Census 2011, which of the following union territories of India has the lowest population?
(a) Daman and Diu
(b) Delhi
(c) Chandigarh
(d) Lakshadweep
Answer: (d)

16. 'Waghya Murali' dance, associated with Lord Khandoba, originated in which state of India?
(a) Maharashtra
(b) Bihar
(c) Rajasthan
(d) Gujarat
Answer: (a)

17. Who among the following is the first singer to be presented with India's highest civilian honour, the Bharat Ratna?

(a) Ustad Ali Akbar Khan
(b) Hariprasad Chaurasia
(c) Madurai Shanmukhavadivu Subbulakshmi
(d) Bismillah Khan

Answer: (c)

18. Where was the Formula One 2013 Indian Grand Prix held?

(a) Kari Motor Speedway
(b) Chicane Circuit
(c) Madras Motor Race Track
(d) Buddh International Circuit

Answer: (d)

19. Of the options listed below, the speed of sound is highest in _____ at 25°C.

(a) Ethanol
(b) Aluminium
(c) Oxygen
(d) Hydrogen

Answer: (b)

20. The core of the earth is mainly made up of _____

(a) nickel and silica
(b) silica and magnesium
(c) nickel and iron
(d) silica and alumina

Answer: (c)

21. PM-DevINE is the Prime Minister's development initiative for _____ India.

(a) south-east
(b) north-east
(c) south-west
(d) north-west

Answer: (b)

22. As per Census 2011, under which of the following ranges does the literacy rate in India fall?

(a) 90% - 95%
(b) 50% - 55%
(c) 30% - 35%
(d) 70% - 75%

Answer: (d)

23. Who among the following emphasised the worship of God as Nirankar (formless) in Punjab, India?

(a) Guru Gobind Singh
(b) Maharaja Ranjit Singh
(c) Baba Dayal Das
(d) Baba Ram Singh

Answer: (c)

24. Starch in potatoes reacts with _____, turning to a blue colour.

(a) fluorine
(b) Bromine
(c) Iodine
(d) Chlorine

Answer: (c)

25. Indrani Rahman was associated with which classical dance of India?
I. Bharatanatyam dance
II. Odissi dance

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

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 English

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

General Intelligence and Reasoning

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

Numerical Aptitude

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

General Awareness

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