PREVIOUS YEAR PAPER

SSC MTS 2021 — 20 July 2022, Shift 1

SSC MTS & Havaldar · 20 July 2022 · 9:00 AM - 10:30 AM

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

Left out of the original paper: 9 (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 20 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-2021-20-jul-shift-1/

General English

1. Select the most appropriate ANTONYM of the underlined word.

After a long and rigorous fast the Lord appeared before him.

(a) Sweaty
(b) Exhausting
(c) Oppressive
(d) Lenient

Answer: (d)

2. Select the option that will improve the underlined p of the given sentence. In case no improvement is needed, select 'No improvement rec ed'.

Most workers resigns to join new jobs with the s e industry.

(a) resigned
(b) was resigning
(c) No improvement required
(d) has resigned

Answer: (a)

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

A tiger’s skull / is similar / to / a lion.

(a) is similar
(b) A tiger’s skull
(c) a lion
(d) to

Answer: (c)

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

My friend, who is a photographer, is _____ a writer.

(a) also
(b) too
(c) again
(d) and

Answer: (a)

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

The bank was prepared to _____ chance and lend him 40% of the purchase price.

(a) make a
(b) spare a
(c) take a
(d) see a

Answer: (c)

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

People and / there demands / are ever-growing, but / the availability of land is limited.

(a) People and
(b) there demands
(c) the availability of land is limited
(d) are ever-growing, but

Answer: (b)

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

I'm frustrated with the _____ minded view of history this article presents.

(a) small
(b) wide
(c) narrow
(d) bigger

Answer: (c)

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

Caffeine is a diuretic that makes you urinate <u>more often.</u>

(a) No improvement required
(b) more much often
(c) many often
(d) oftenly more

Answer: (a)

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

I always smell a rat when John says that he is going out for extra classes.

(a) Suspect trickery or deception
(b) Reveal a secret
(c) Trust completely
(d) Say something stupid

Answer: (a)

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

The Armenian language has many dialects, some of which cannot be _____ by speakers of other dialects.

(a) understood
(b) realised
(c) memorised
(d) completed

Answer: (a)

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

Someone who is silent or uncommunicative in speech

(a) Garrulous
(b) Reserved
(c) Voluble
(d) Imperceptible

Answer: (b)

12. Select the idiom that can substitute the underlined segment in the given sentence.

Roy's customers think that the council has become irrational.

(a) Too much on their plates
(b) A piece of cake
(c) Browned off
(d) Gone bananas

Answer: (d)

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

Ebullient

(a) Carefree
(b) Dejected
(c) Buoyant
(d) Roguish

Answer: (b)

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

The family can none long stay in their big house.

(a) not stay longest
(b) No improvement required
(c) stay no long
(d) no longer stay

Answer: (d)

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

Enraged

(a) Peaceful
(b) Fortunate
(c) Furious
(d) Elated

Answer: (c)

16. Select the INCORRECTLY spelt word.

(a) Foriegn
(b) Secondary
(c) Evince
(d) Portfolio

Answer: (a)

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

Flagrant

(a) Favourable
(b) Wonderful
(c) Magnificent
(d) Atrocious

Answer: (d)

18. 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.'

Many people believe that women make better nurses because they are patient and gentle.

(a) because she is
(b) as they would
(c) because they were
(d) No substitution required

Answer: (d)

19. Select the correctly spelt word.

(a) Eqiupment
(b) Strengthen
(c) Instrumentle
(d) Reversel

Answer: (b)

20. 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.

Many countries are not acting / fast enough to controlled / climate change.

(a) climate change
(b) Many countries are not acting
(c) No error
(d) fast enough to controlled

Answer: (d)

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.
>
> Elephant Island's name is attributed to (1) _____ its ele nt head-like appearance and the sighting of elephant seals (2) _____ Captain George Powell in 18 one of the (3) _____ sightings. (4) _____, in Russia it is still known under the name (5) _____ by i scoverers in 1821 – Mordvinova Island.

21. Select the most appropriate option to fi blar umber 1.

(a) either
(b) also
(c) both
(d) neither

Answer: (c)

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

(a) through
(b) from
(c) among
(d) by

Answer: (d)

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

(a) earlier
(b) early
(c) most early
(d) earliest

Answer: (d)

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

(a) Thus

(b) However

(c) Thereby

(d) Therefore

Answer: (b)

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

(a) released

(b) sorted

(c) given

(d) looked

Answer: (c)

General Intelligence and Reasoning

1.

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



(a)



(b)



(c)



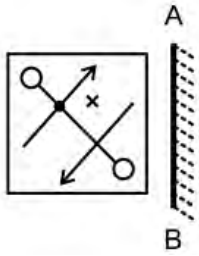
(d)



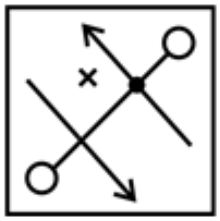
Answer: (a)

2.

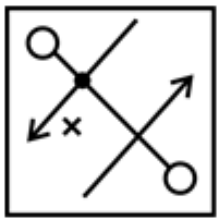
Select the correct mirror image of the given figure when the mirror is placed at line AB as shown.



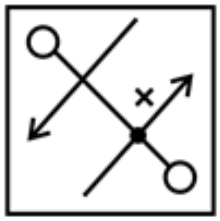
(a)



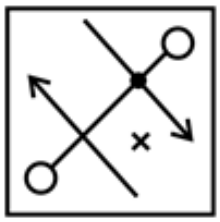
(b)



(c)



(d)



Answer: (a)

3. Three boys T, R and M are sitting in a row facing towards the north (not necessarily in the same order), and three girls F, G and K are sitting in a row facing towards the face of these boys (not necessarily in the same order). F and R are diagonally opposite to each other. K is not at any of the ends.

Which of the following pairs of persons facing towards each other is/are definitely correct?
I. GR
II. KT

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

Answer: (a)

4. 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.

KSZ : PHC :: TNK : ?

(a) MGN
(b) GNO
(c) GMO
(d) GMN

Answer: (d)

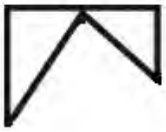
5. Eight girls A, B, C, D, E, F, G and H are sitting aro[illegible] a circular table facing opposite to the centre (not necessarily in the same order). B is se[illegible] to[illegible] left of D. F is third to the left of B. A is second to the left of F. C is second to the left of A. G i[illegible] to the left of E. Three out of the following four options are similar by a certain logic and form a group. Which of the following does NOT belong to that group?

(a) A, C, E
(b) D, B, H
(c) D, H, G
(d) C, E, F

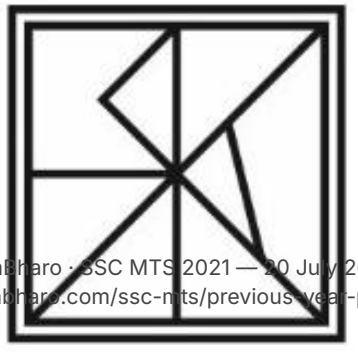
Answer: (c)

6.

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



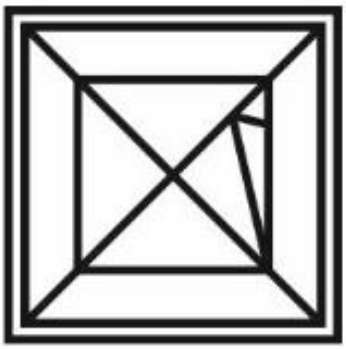
(a)



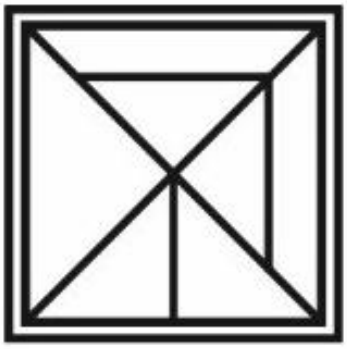
(b)



(c)



(d)



Answer: (b)

7. In a certain code language, 'GAME' is coded as '78', and 'PNAD' is coded as '105'. How will 'HORN' be coded in that language?

(a) 135

(b) 165

(c) 145

(d) 170

Answer: (b)

8. 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. All cars are red.
II. No blue is red. Conclusions:
I. No car is blue.
II. Some red are cars.

(a) Both conclusions I and II follow

(b) Only conclusion II follows

(c) All conclusions follow

(d) None of the conclusions follow

Answer: (c)

9. In a certain code language, 'HALMST' is written as 'IZMLTS' and 'GEASTR' is written as 'HDBRUQ'. How will 'TRAILS' be written in that language?

(a) UOBHMR

(b) UQBHNR

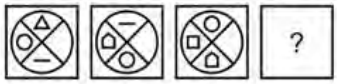
(c) UQBIMR

(d) UQBHMR

Answer: (d)

10.

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



(a)



(b)



(c)



(d)



Answer: (b)

11. Select the option that is related to the fi[illegible]m[illegible] in the same way as the second number is related to the first number and fourth numbe[illegible]ed to third number.

23 : 25 :: 17 : 64 :: 29 : ?

(a) 119

(b) 144

(c) 121

(d) 169

Answer: (c)

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

64, 51, 38, ?, 12, –1

(a) 25

(b) 22

(c) 27

(d) 24

Answer: (a)

13. 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. Some games are lands.
II. Some toys are games.

Conclusions:
I. Some toys are not lands.
II. Some lands are games.

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

Answer: (c)

14. In a certain code language, 'WORD' is written as 'CUXJ' and 'MOKE' is written as 'SUQK'. How will 'IDEA' be written in that language?

(a) OJKG
(b) OJLG
(c) OJLH
(d) OJMG

Answer: (a)

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

13, 51, 205, 819, 3277, ?

(a) 13109
(b) 13107
(c) 13108
(d) 13106

Answer: (b)

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

64 : 10 :: ?

(a) 84 : 12
(b) 54 : 12
(c) 32 : 1
(d) 42 : 8

Answer: (a)

17. In a basket there are seven different fruits M, N, O, P, Q, R and S, each having a different weight. P is the heaviest. The weight of S is more than Q but less than O. The weight of M is the third lowest. R has the least weight. The weight of N is less than Q. How many fruits have more weight than S?

(a) 2
(b) 3
(c) 0
(d) 1

Answer: (d)

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

GROW, FSNX, ETMY, ?, CVKA

(a) DULX
(b) DVLA
(c) DVLZ
(d) DULZ

Answer: (d)

19. After interchanging which two numbers will the value of the given expression be '173'?

52 – 36 + 141 × 63 ÷ 47

(a) 141 and 52
(b) 47 and 63
(c) 52 and 36
(d) 63 and 141

Answer: (c)

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: (b)

21. 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.

FNNC: CKKZ:: ADRS: XAOP:: BNNL: ?

(a) ZKKI

(b) ZKKJ

(c) YKKI

(d) YKKJ

Answer: (c)

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.

PRO : NOL :: HEL : ?

(a) FIB

(b) FCJ

(c) FJC

(d) FBI

Answer: (d)

23.

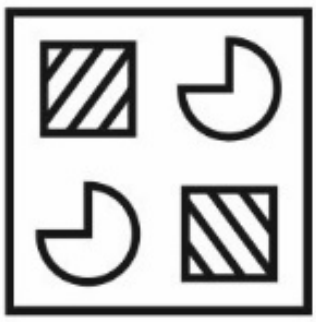
Select the correct mirror image of the given figure when the mirror is placed to its right side.



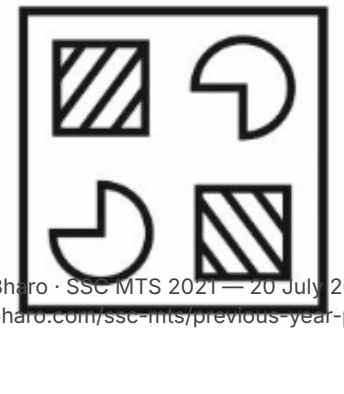
(a)



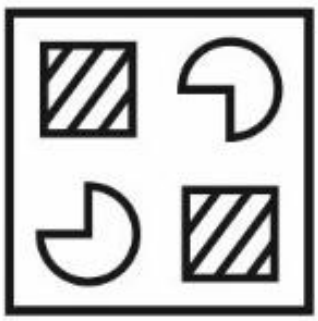
(b)



(c)



(d)



Answer: (c)

24. In a certain code language, 'BASEBALL' is written as '45' and 'FEEDBACK' is written as '73'. How will 'PRACTICE' be written in that language?

(a) 27

(b) 37

(c) 57

(d) 47

Answer: (c)

25. After interchanging the given two signs and two numbers, what will be the value of the given expression?

15 and 3; + and ÷ 6 ÷ 3 + 5 × 15 – 9 = ?

(a) 6

(b) 15

(c) 12

(d) 8

Answer: (a)

Numerical Aptitude

1.

The number of students in a hostel increases from 5400 to 6075. By what percentage should the hostel reduce the per head consumption of food, so that the expenditure on food does not increase?

(a)

$8\frac{1}{3}\%$

(b)

$11\frac{1}{9}\%$

(c)

$12\frac{1}{2}\%$

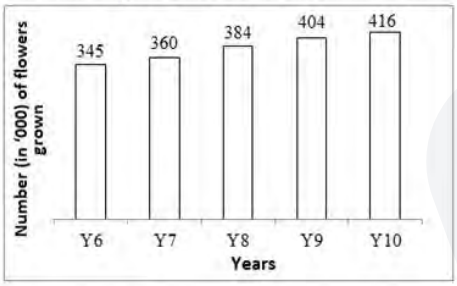
(d)

10%

Answer: (b)

3.

The following bar chart shows the number of flowers (in '000 kg) grown by a floriculturist in 5 consecutive years.



The number of flowers grown in Y5 was 15% more than those grown . 4. The number of flowers grown in Y6 was 20% more than those grown in Y5. What is the difference between the numbers of flowers grown in Y9 and Y4?

(a)

168000

(b)

142000

(c)

154000

(d)

132000

Answer: (c)

5.

Points P and Q are 400 km apart. A person starts from P towards Q at 6 a.m. at a speed of 20 km/h. Another person starts from Q towards P at 6:30 a.m. at a speed of 30 km/h. At what time will they meet?

(a)

1:48 p.m.

(b)

2:18 p.m.

(c)

1:38 p.m.

(d)

2:28 p.m.

Answer: (b)

6.

140 liters of a solution is formed by mixing two solutions A and B. The concentrations of milk in A and B are 40% and 75%, respectively. If the resultant solution has a milk concentration of 52%, then what is the quantity of A that is there in the resultant solution?

(a)

92 liters

(b)

48 liters

(c)

65 liters

(d)

57 litres

Answer: (a)

7.

8 girls and 12 boys can complete a piece of work in 4 days, while 10 girls and 6 boys can complete it in 6 days. How long will 5 girls and 3 boys take to complete this same piece of work?

(a)

12 days

(b)

14 days

(c)

11 days

(d)

13 days

Answer: (a)

9.

What is the value of $\frac{36\div9\times5\div15+7\times3}{6\div12\times3\div12+8\times3}$?

(a)

$\frac{528}{529}$

(b)

$\frac{536}{579}$

(c)

$\frac{487}{529}$

(d)

$\frac{485}{569}$

Answer: (b)

11.

P : Q = 4 : 5 and R is 15% less than Q. If Q = 300, the hat is the sum of P and R?

(a)

515

(b)

485

(c)

495

(d)

475

Answer: (c)

12.

The value of P varies directly as the square of Q. When Q is 4, then P is 48. What is the value of Q when P is 243?

(a)

3

(b)

27

(c)

9

(d)

81

Answer: (c)

13.

On selling 18 pens at ₹660, there is a profit equal to the cost price of 4 pens. What is the cost price of one pen (in ₹)?

(a)

33

(b)

45

(c)

30

(d)

22

Answer: (c)

14.

A camp of 250 soldiers has food for 600 days. After 60 days, 50 soldiers leave the camp. For how many days will the remaining food last from the time that these 50 soldiers left?

(a)

725 days

(b)

750 days

(c)

675 days

(d)

650 days

Answer: (c)

17.

The average of 12 numbers is M and the average of 8 of these numbers is P. If the average of remaining numbers is N, then which of the following options is correct?

(a)

$3M = 2P + N$

(b)

$4M = 2P + 3N$

(c)

$6M = 3P + 2N$

(d)

$6M = 2P + 3N$

Answer: (a)

20.

The average age of two friends, A and B, is 24 years. The average age of A, B and C is 22 years. What is the age of C?

(a)

22 years

(b)

18 years

(c)

21 years

(d)

20 years

Answer: (b)

21.

A toy is formed by placing a solid circular cone on a solid hemisphere and the radius of the common base of the cone and the hemisphere is 15 cm. If the volume of the toy is 2850π cm^3, then find the total surface area of that toy.

(a)

815π cm^2

(b)

755π cm^2

(c)

705π cm^2

(d)

685π cm^2

Answer: (c)

23.

The following table shows the total number of students in four different classes of a school, and the percentages of students participating in Music or Plays from each of these four different classes. NO student participates both in Music and in Plays.

Classes	Total number of students in each class	Percentage of participants	
		Music	Plays
X	600	12	8
IX	400	10	6
VIII	280	30	15
VII	250	10	12

What is the total number of students who do NOT participate in Music or Plays from classes X and VII, taken together?

(a)

700

(b)

620

(c)

480

(d)

675

Answer: (d)

24.

The compound interest earned by Sunil on a certain sum at the end of two y at the rate of 16% p.a., when interest is compounded annually, was ₹864. What was the sum invested by Sunil?

(a)

₹2,500

(b)

₹2,750

(c)

₹1,500

(d)

₹2,000

Answer: (a)

25.

Find the least possible number which when divided by 16, 24, and 28 leaves 13, 21, and 25 as remainders, respectively.

(a)

333

(b)

336

(c)

320

(d)

348

Answer: (a)

General Awareness

1. Netaji Subhash Chandra Bose International airport is situated in _____.

(a) Kolkata

(b) Mumbai

(c) Delhi

(d) Chennai

Answer: (a)

2. The President of India can nominate maximum __ members of the Anglo-Indian community to the House of the People, if in his opinion it is not ad uately represented.

(a) six

(b) three

(c) four

(d) two

Answer: (d)

3. 'An Unsuitable Boy' is the autobiography of _____.

(a) Karan Johar

(b) Akshay Kumar

(c) Anurag Kashyap

(d) Salman Khan

Answer: (a)

4. Minati Mishra was associated with which classical dance of India?

(a) Kathak

(b) Kuchipudi

(c) Odissi

(d) Manipuri

Answer: (c)

5. Which of the following terms is NOT associated with Tennis?
   (a) Service break
   (b) Goal
   (c) Set
   (d) Volley
   Answer: (b)

6. Which water body is present to the south of India?
   (a) Pacific Ocean
   (b) Arabian Sea
   (c) Bay of Bengal
   (d) Indian Ocean
   Answer: (d)

7. On the basis of age, the population of a nation is generally grouped into _____ broad categories.
   (a) Four
   (b) Five
   (c) Three
   (d) Two
   Answer: (c)

8. Bihu is the folk dance form of which Indian state?
   (a) Maharashtra
   (b) Assam
   (c) Karnataka
   (d) Bihar
   Answer: (b)

9. Who among the following founded Arya Samaj in 1875?
   (a) Swami Dayanand Saraswati
   (b) Ishwar Chandra Vidyasagar
   (c) Raja Ram Mohan Roy
   (d) Swami Vivekanand
   Answer: (a)

10. Which Indian wrestler won a silver medal in Tokyo Olympics 2020?
   (a) Virat Kohli
   (b) Vijender Singh
   (c) Ravi Dahiya
   (d) Yogeshwar Dutt
   Answer: (c)

11. The aviation sector was inaugurated in India in the year _____ with the establishment of Tata Airlines.

(a) 1925
(b) 1932
(c) 1929
(d) 1935

Answer: (b)

12. Which of the following statements is correct?
I. Gautama Buddha belonged to a small gana known as the Sakya gana and was a Kshatriya.
II. Gautama Buddha passed away at Kusinara.

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

Answer: (d)

13. The core of the Great Himalayas is composed of _____.

(a) Slate
(b) Granite
(c) Sandstone
(d) Limestone

Answer: (b)

14. Which ministry launched the Krishi Uda[illegible] sc[illegible]me to facilitate the movement of agricultural produce?

(a) Ministry of Civil Aviation
(b) Ministry of Rural Development
(c) Ministry of Minority Affairs
(d) Ministry of Labour and Employment

Answer: (a)

15. Who has been reappointed as the Governor of the Reserve Bank of India (RBI) in October 2021?

(a) T V Somanthan
(b) Urjit Patel
(c) Shaktikanta Das
(d) D Subbarao

Answer: (c)

16. Who among the following won the award for Best Music Direction in Feature Films (Songs) at the 67th National Film Awards?

(a) D Immam
(b) Pritam
(c) AR Rahman
(d) Ilaiyaraaja

Answer: (a)

17. Bhagwati Committee (1973) presented a report on _____.

(a) unemployment
(b) poverty
(c) population growth
(d) commerce

Answer: (a)

18. Richard Wellesley was the Governor – General of India from _____.

(a) 1806 – 1810
(b) 1811 – 1816
(c) 1817 – 1822
(d) 1798 – 1805

Answer: (d)

19. The feature of Directive Principles of State Policy in the Indian Constitution is borrowed from the Constitution of _____.

(a) France
(b) Canada
(c) Australia
(d) Ireland

Answer: (d)

20. Aqua regia is a freshly prepared mixture of concentrated hydrochloric acid and concentrated nitric acid in the ratio of _____ by volume.

(a) 3 : 1
(b) 2 : 1
(c) 6 : 1
(d) 4 : 1

Answer: (a)

21. Qutbuddin Aybak ruled over Delhi from _____.

(a) 1266 to 1287
(b) 1236 to 1240
(c) 1206 to 1210
(d) 1210 to 1236

Answer: (c)

22. Madan Mohan temple is a centrally protected monument. It is situated in which state of India?
    (a) Himachal Pradesh
    (b) Uttarakhand
    (c) Uttar Pradesh
    (d) Karnataka
    Answer: (c)

23. Typhoid fever is caused by _____.
    (a) viruses
    (b) protozoa
    (c) bacteria
    (d) fungi
    Answer: (c)

24. Tooth decay starts when the pH of the mouth is lower than _____.
    (a) 5.5
    (b) 7.5
    (c) 9.5
    (d) 10.5
    Answer: (a)

25. 'Maru Mahotsav' also known as desert festival is celebrated in _____.
    (a) Jaipur
    (b) Leh
    (c) Jaisalmer
    (d) Srinagar
    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 English

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

General Intelligence and Reasoning

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

Numerical Aptitude

1	**(b)**	3	**(c)**	5	**(b)**	6	**(a)**	7	**(a)**	9	**(b)**
11	**(c)**	12	**(c)**	13	**(c)**	14	**(c)**	17	**(a)**	20	**(b)**
21	**(c)**	23	**(d)**	24	**(a)**	25	**(a)**				

General Awareness

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