PREVIOUS YEAR PAPER

SSC MTS 2021 — 13 July 2022, Shift 1

SSC MTS & Havaldar · 13 July 2022 · 9:00 AM - 10:30 AM

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

Left out of the original paper: 12 (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 13 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-2021-13-jul-shift-1/

General English

1. 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.

The mountain lion is / one of the slyest and more / elusive animals in the woods.

(a) one of the slyest and more
(b) No error
(c) The mountain lion is
(d) elusive animals in the woods.

Answer: (a)

2. Select the correctly spelt word.

(a) Envisaige
(b) Psychologist
(c) Emergense
(d) Trancition

Answer: (b)

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

Overrun

(a) Surrender
(b) Inundate
(c) Storm
(d) Invade

Answer: (a)

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

Many people may not find the rewards _____ with the time and effort required.

(a) insignificant
(b) gleeful
(c) cautious
(d) commensurate

Answer: (d)

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

If we don't reverse course now, will anyone take anything we say about justice and _____ with any seriousness for decades to come?

(a) righteousness
(b) mediation
(c) wickedness
(d) dishonesty

Answer: (a)

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

He is foaming at the mouth about the committee's decision.

(a) To be enraged and show it
(b) to cause damage to someone
(c) to not recognize something good
(d) to be upset about something that happened in the past

Answer: (a)

7. Select the correctly spelt word.

(a) Disstract
(b) Destarct
(c) Distract
(d) Distarct

Answer: (c)

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

Probe

(a) Search
(b) Motivate
(c) Invite
(d) Push

Answer: (a)

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

You are looking so pretty on these black outfit.

(a) pretty in this
(b) No improvement required
(c) prettier in these
(d) prettiest with those

Answer: (a)

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

He is the patient _____ called you in the morning.

(a) which
(b) whom
(c) who
(d) that

Answer: (c)

11. 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.

They finally did what / we advice them to do / before the final match.

(a) we advice them to do
(b) before the final match
(c) They finally did what
(d) No error

Answer: (a)

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

Made in imitation so as to be passed off fraudulently as genuine

(a) Counterfeit
(b) Staunch
(c) Authentic
(d) Deliberate

Answer: (a)

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

Many people like playing cricket, but _____ my opinion, it is too chaotic.

(a) in
(b) from
(c) for
(d) with

Answer: (a)

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

Impure

(a) Contaminated
(b) Segregated
(c) Sterile
(d) Concentrated

Answer: (c)

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

If you plant a seed, / you will be noticed / that it takes some / time to grow.

(a) that it takes some
(b) If you plant a seed
(c) you will be noticed
(d) time to grow

Answer: (c)

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

Back on one's feet

(a) To support the losing side
(b) Relive previous moments
(c) Well or successful again
(d) Forced to begin something again

Answer: (c)

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

This cruise ship _____ in November and December.

(a) sails
(b) sells
(c) sales
(d) seals

Answer: (a)

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

If you want to save your money, start living an _____ life.

(a) improper
(b) economical
(c) extravagant
(d) indulgent

Answer: (b)

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

Clandestine

(a) Blatant
(b) Ornate
(c) Open
(d) Undercover

Answer: (d)

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

In India, processed foods becomes popular in the 20th century.

(a) became popular in
(b) become popularity in
(c) No improvement required
(d) become popular at

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.
>
> The Ministry of Defence has (1) _____ the formal Government Sanction Letter (2) _____ grant of permanent commission (PC) to women officers in the Army. "In anticipation, the Army Headquarters had (3) _____ in motion a series of preparatory actions for conduct of the Permanent Commission Selection Board for affected women officers. The Selection Board will be scheduled as (4) _____ as all affected Short Service Commissioned (SSC) women officers exercise their option and complete (5) _____ documentation," the Army said in a statement.

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

(a) imbibed
(b) accused
(c) extracted
(d) issued

Answer: (d)

22. Select the most appropriate option to fill in blank number 2.
    (a) since
    (b) from
    (c) for
    (d) to
    Answer: (c)

23. Select the most appropriate option to fill in blank number 3.
    (a) deposited
    (b) set
    (c) located
    (d) situated
    Answer: (b)

24. Select the most appropriate option to fill in blank number 4.
    (a) soon
    (b) late
    (c) long
    (d) blind
    Answer: (a)

25. Select the most appropriate option to fill in blank number 5.
    (a) unnecessary
    (b) optional
    (c) gratuitous
    (d) requisite
    Answer: (d)

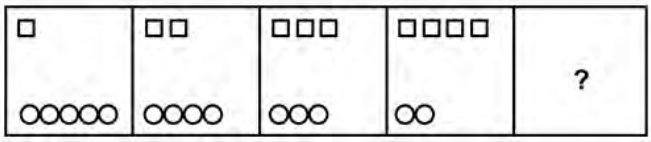
General Intelligence and Reasoning

1. Identify the number that does NOT belong to the following series.

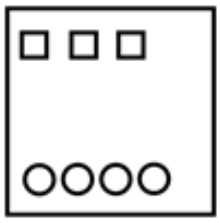
30, 15, 15, 22.5, 46, 112.5
    (a) 46
    (b) 112.5
    (c) 22.5
    (d) 30
    Answer: (a)

2.

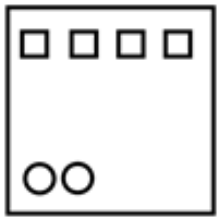
Select the figure from among the given options that can replace the question mark (?) in the following series.



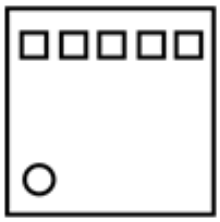
(a)



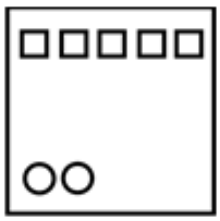
(b)



(c)



(d)



Answer: (c)

3. 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.

VOCAL : CVJHS :: TROOF : AYVVM :: RTAGE : ?

(a) YAHNM

(b) YAHML

(c) YAHNN

(d) YAHNL

Answer: (d)

4.

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



(a)



(b)



(c)



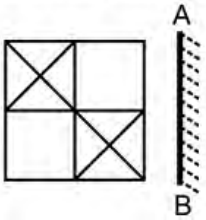
(d)



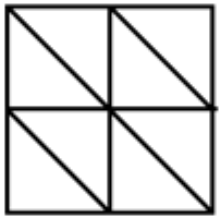
Answer: (a)

5.

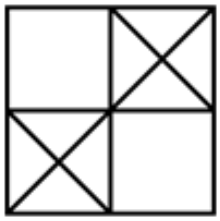
Select the correct mirror image of the given figure when the mirror is placed at line AB as shown.



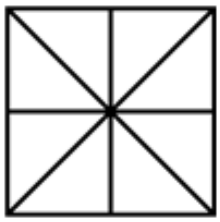
(a)



(b)



(c)



(d)



Answer: (b)

6. If ‘White’ is called ‘Blue’, ‘Blue’ is called ‘Red’, ‘Red’ is called ‘Yellow’, Yellow' is called ‘Green’, ‘Green’ is called ‘Black’, ‘Black’ is called ‘Violet’, and ‘Violet’ is called ‘Orange’, then what would be the colour of human blood?

(a) Yellow

(b) Violet

(c) Red

(d) Green

Answer: (a)

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

632, 637, 644, 653, 664, ?

(a) 677
(b) 687
(c) 679
(d) 681

Answer: (a)

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: Some mocks are exams. Some exams are banks. No bank is a local.

Conclusions:
I. Some mocks are local.
II. No mock is a local.

(a) Neither conclusion I nor II follows
(b) Only conclusion I follows
(c) Only conclusion II follows
(d) Either conclusion I or II follows

Answer: (d)

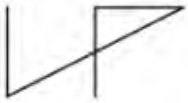
9. Four boys R, S, T and U are sitting in a r[illegible]facing towards the south (but not necessarily in the same order). Four girls A, B, C and D are sitting [illegible]ow, facing towards the face of these boys (but not necessarily in the same order). C and R are diagonally opposite to each other. A and S are diagonally opposite to each other. T is the immediate neighbour of R. D is the immediate neighbour of C. Who is facing D?

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

Answer: (c)

10.

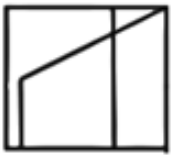
Select the option in which the given figure is embedded (rotation is NOT allowed).



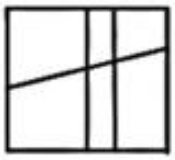
(a)



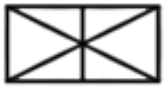
(b)



(c)



(d)



Answer: (d)

11. Which two numbers (not digits) need to be interchanged to make the given equation correct?

83 + 711 – 95 ÷ 9 × 2 = 20

(a) 9 and 2

(b) 711 and 95

(c) 95 and 83

(d) 2 and 83

Answer: (b)

12. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.

THROW : XPSIU :: QUICK : LDJVR :: LIGHT : ?

(a) UIHLM

(b) UIHJM

(c) UIHKM

(d) UIHJN

Answer: (b)

13. Select the option that is related to the third number in the same way as the second number is related to the first number and sixth number is related to the fifth number.

6 : 232 :: 8 : ? : : 10 : 1016

(a) 520
(b) 535
(c) 540
(d) 528

Answer: (d)

14. The speeds of seven cars C1, C2, C3, C4, C5, C6 and C7 are compared. All cars have different speeds. The speed of C1 is more than only two cars. The speed of C6 is more than C4 and less than C5. The speeds of C2 and C3 are the highest and the lowest, respectively. The speed of C4 is more than C1. The speed of how many cars is less than C7?

(a) 5
(b) 2
(c) 4
(d) 1

Answer: (d)

15. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

123 : 616 :: 147 : 736 :: 211 : ?

(a) 1056
(b) 1046
(c) 996
(d) 1036

Answer: (a)

16. Select the letter-cluster that can replace the question mark (?) in the following series.

GOAL, IMCJ, KKEH, MIGF, ?

(a) OHID
(b) OGJD
(c) OGIC
(d) OGID

Answer: (d)

17. In a certain code language, '321' means 'cold filtered coffee', '653' means 'very cold day' and '985' means 'day and night'. What is the code for 'very' in the same language?

(a) 5
(b) 3
(c) 9
(d) 6

Answer: (d)

18. In a certain code language, ‘grapes are multi red’ is coded as ‘8 6 4 3’, ‘red people eat mango’ is coded as ‘7 4 5 2’ and ‘mango multi apple’ is coded as ‘3 5 0’. How will ‘red apple’ be coded in that language?

(a) 8 5

(b) 4 0

(c) 5 0

(d) 8 6

Answer: (b)

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

÷ and +; 7 and 15 5 ÷ 35 + 15 × 6 – 7 = ?

(a) 40
(b) 30
(c) 20
(d) 10

Answer: (c)

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

Canberra : Australia :: Doha : ?

(a) Qatar
(b) Iran
(c) Yemen
(d) Kuwait

Answer: (a)

22. 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 90s are 80s. Some 90s are 40s. All 80s are 70s.

Conclusions:
I. All 80s being 40s is a possibility.
II. Some 70s are not 90s.

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

Answer: (c)

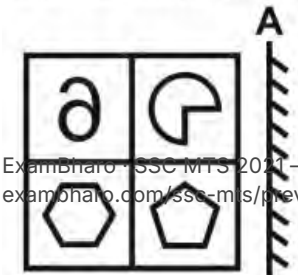
23. In a certain code language, 'DETAIL' is written as 'FCVYKJ' and 'HEALTH' is written as 'JCCJVF'. How will 'MOTION' be written in that language?

(a) OMVGPL
(b) OMVGQM
(c) OMVGQL
(d) OMVGRL

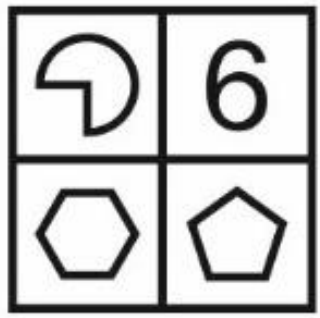
Answer: (c)

24.

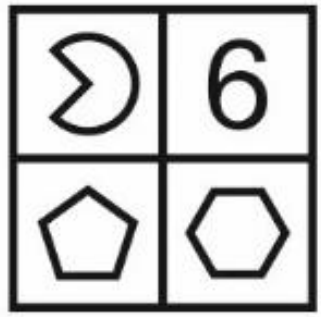
Select the correct mirror image of the given figure when the mirror is placed to its right side.



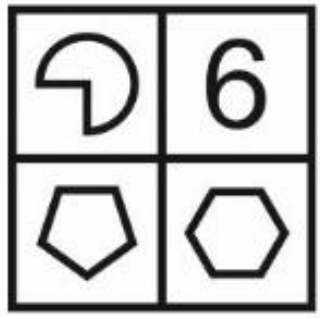
(a)



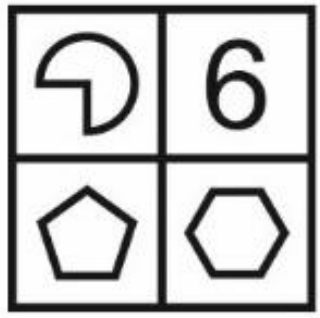
(b)



(c)



(d)



Answer: (d)

25. Seven girls A, B, C, D, E, F and G are sitting around a circular table facing opposite the centre (not necessarily in the same order). E is second to the right of A. C is the immediate neighbour of E. D is third to the right of C. B is the immediate neighbour of E and A. F is fourth to the right of A. Which of the following statements is correct? I. D is next to the right of G. II. A is third to the left of B.

(a) Only II

(b) Both I and II

(c) Only I

(d) Neither I nor II

Answer: (c)

Numerical Aptitude

2.

In a partnership business, A and B invested in the ratio of 5:6. At the end of 8 months A withdrew his capital. If they shared the eventual profit in the ratio of 5:9, then what is the number of months for which B invested his capital?

(a)

6 months

(b)

10 months

(c)

12 months

(d)

11 months

Answer: (c)

3.

During a journey a person travels half of the distance at a speed of 18 km/h and the remaining half of the journey at a speed of 22 km/h. What is his average speed for the entire journey?

(a)

21.4 km/h

(b)

20.2 km/h

(c)

19.2 km/h

(d)

19.8 km/h

Answer: (d)

4.

D_1 and D_2 can do a piece of work together in 16 days, D_2 and D_3 can do the same work together in 24 days, while D_3 and D_1 can do it together in 48 days. In how many days can all 3, working together, do $\frac{5}{6}$ of the work?

(a)

$\frac{31}{3}$ days

(b)

$\frac{40}{3}$ days

(c)

$\frac{35}{3}$ days

(d)

$\frac{38}{3}$ days

Answer: (b)

5.

E% of 12.5% of 480 = 72. What is the value of E?

(a)

95

(b)

110

(c)

105

(d)

120

Answer: (d)

6.

In a job, Z_1, Z_2 and Z_3 work for 8, 10 and 15 days, respectively. The ratio of the daily wages of Z_1, Z_2 and Z_3 is 3 : 4 : 4, respectively. If they receive ₹4,960 as total wages for the work done, then what is the combined share of Z_2 and Z_3 in the total wages received?

(a)

₹4,800

(b)

₹4,000

(c)

₹4,400

(d)

₹4,200

Answer: (b)

7.

The area of the base of a solid cone is 616 cm^2. If the height of the cone is 15 cm, then what is the volume of this cone?

(a)

2940 cm^3

(b)

3440 cm^3

(c)

3190 cm^3

(d)

3080 cm^3

Answer: (d)

8.

What is the value of A, if $A = [50 - 4 \times 5 + \{6 \div 3 - 1\}]$?

(a)

30

(b)

71

(c)

31

(d)

29

Answer: (c)

9.

Study the given table and answer the question that follows.

The table below shows the percentage distribution of students from five different colleges in various disciplines.

DISCIPLINES	COLLEGES				
	P	Q	R	S	T
SCIENCE	25	35	45	28	35
ECONOMICS	45	40	15	42	25
MATHEMATICS	30	25	40	30	40
TOTAL NUMBER OF STUDENTS	8000	10000	15000	9000	11000

Students from the discipline of mathematics in colleges P and R taken together is what percentage of the total number of students in colleges P and R taken together? [Give your answer correct to one decimal place.]

(a)

36.9%

(b)

36.5%

(c)

37.2%

(d)

37.5%

Answer: (b)

10.

A boat can travel 5 km upstream in 15 minutes. If the ratio o[illegible]ne boat in still water to the speed of the stream is 6 : 1, then how much time will the boat take to cover 19.6 k[illegible]wnstream?

(a)

54 minutes

(b)

26 minutes

(c)

42 minutes

(d)

31 minutes

Answer: (c)

11.

A retailer bought 50 kg of Arhar Dal at a discount of 20%. Another 2 kg of Arhar dal was offered to him for free by the wholesaler on the purchase of 50 kg of the dal. If the retailer sells the entire quantity of the dal at the marked price to a customer, what is the profit percentage gained by the retailer?

(a)

30%

(b)

22%

(c)

12%

(d)

15%

Answer: (a)

12.

There are 32 consecutive natural numbers. The average of the first 13 numbers is x. What is the average of the next 19 numbers?

(a)

$x + 15$

(b)

$x + 16$

(c)

$x + 17$

(d)

$x + 18$

Answer: (b)

13.

The ratio of two numbers is 3 : 7. The sum of the two numbers is 180. What is the positive difference between the two numbers?

(a)

80

(b)

72

(c)

85

(d)

78

Answer: (b)

14.

What is the LCM of two numbers, whose product is 432 and HCF is 6?

(a)

68

(b)

48

(c)

78

(d)

72

Answer: (d)

17.

What is the value of $\frac{7}{8}+\frac{8}{11}$ of $\left[\frac{33}{16}-\frac{5}{12}+\left(\frac{6}{11}-\frac{5}{12}+\frac{7}{22}\right)\right]$?

(a)

$\frac{6871}{3605}$

(b)

$\frac{6805}{2987}$

(c)

$\frac{6907}{3971}$

(d)

$\frac{6961}{2904}$

Answer: (d)

19.

If the cost price of 15 pencils is equal to the selling price of 10 pencils, what is the gain or loss percentage?

(a)

20% gain

(b)

30% loss

(c)

50% gain

(d)

40% loss

Answer: (c)

20.

Sandeep buys a toy car for ₹500 and sells it for ₹625. What is his gain or loss percentage?

(a)

20% gain

(b)

20% loss

(c)

25% gain

(d)

25% loss

Answer: (c)

23.

The largest possible right circular cylinder is cut out from a wooden cube of edge 7 cm. Find the volume of the cube left over after cutting the cylinder (in cm). (use $\pi = \frac{22}{7}$)

(a)

73.5

(b)

63.5

(c)

87.5

(d)

67.5

Answer: (a)

25.

The radius of a circular wheel of a toy car is 56 mm. In how many revolutions can it cover a distance of 176 cm?

[Use $\pi = \frac{22}{7}$]

(a)

6

(b)

3

(c)

5

(d)

4

Answer: (c)

General Awareness

1. 'The Kiss of Life' is the autobiography of who among the following persons?

(a) Sanjay Suri
(b) John Abraham
(c) Dino Morea
(d) Emraan Hashmi

Answer: (d)

2. In which state of India is Bhogali Bihu festival ce[illegible]ated?

(a) Assam
(b) Andhra Pradesh
(c) Rajasthan
(d) Tamil Nadu

Answer: (a)

3. Paika is a martial folk dance popular in which of the following states?

(a) Kerala
(b) Andhra Pradesh
(c) Gujarat
(d) Odisha

Answer: (d)

6. Which of the following teams won the Ranji trophy for the year 2019-20?

(a) Mumbai
(b) Bengal
(c) Baroda
(d) Saurashtra

Answer: (d)

8. In which of the following years was the Preamble of the Indian Constitution first amended?

(a) 1968
(b) 1955
(c) 1976
(d) 1988

Answer: (c)

10. Which of the following rivers is also known as 'Bhagirathi' at the place of its origin?

(a) Brahmaputra
(b) Yamuna
(c) Indus
(d) Ganga

Answer: (d)

11. Which of the following railway zones has recently completed 100% electrification of its entire route?

(a) South Central Railway
(b) Konkan Railway
(c) Harbour Railway
(d) North Eastern Railway

Answer: (b)

12. Who of the following founded the Atmiya Samaj?

(a) Swami Vivekananda
(b) Bhimrao Ramji Ambedkar
(c) Raja Ram Mohan Roy
(d) Dayananda Saraswati

Answer: (c)

13. Aparna Satheesan, who won the prestigious National Nritya Shiromani Award 2022, is associated with which of the following dance forms?

(a) Sattriya
(b) Kuchipudi
(c) Mohiniattam
(d) Kathak

Answer: (b)

14. _____ is a motion moved by a member to cut short the debate on a matter before the House.

(a) Closure
(b) No-Confidence
(c) Privilege
(d) Censure

Answer: (a)

15. The Battle of Khanwa was fought between:
    (a) Babur and Ibrahim Lodi
    (b) Babur and Rana Sangha
    (c) Sher Shah Suri and Rana Sangha
    (d) Babur and Sher Shah Suri

    Answer: (b)

16. Which of the following is the oldest Veda?
    (a) Rigveda
    (b) Atharvaveda
    (c) Samaveda
    (d) Yajurveda

    Answer: (a)

18. Who became the first Governor–General of India in 1773?
    (a) Robert Clive
    (b) Warren Hastings
    (c) Thomas Munro
    (d) Charles Cornwallis

    Answer: (b)

19. Which of the following is NOT an institutional factor for agriculture?
    (a) Land reforms
    (b) Electricity
    (c) Size of fields
    (d) Land tenure

    Answer: (b)

20. As per the 2011 census, which of the following states of India has the least population?
    (a) Sikkim
    (b) Bihar
    (c) Kerala
    (d) Chhattisgarh

    Answer: (a)

21. Pandit Ram Narayan was associated with which musical instrument?
    (a) Flute
    (b) Sarod
    (c) Sarangi
    (d) Guitar

    Answer: (c)

22. Which of the following is an example of emulsion?

(a) Milk
(b) Mist
(c) Gemstone
(d) Clouds

Answer: (a)

23. India won the bronze medal (the only one won by India) in which team sports at the Tokyo Olympics 2020?

(a) Basketball
(b) Field hockey
(c) Badminton
(d) Table tennis

Answer: (b)

24. _____ won the women's singles title at the Swiss Open Super 300 badminton tournament 2022.

(a) PV Sindhu
(b) Kirsty Gilmour
(c) Ashmita Chaliha
(d) Busanan Ongbamrungphan

Answer: (a)

25. According to the census 2011, the second highe[illegible]opulated metro in India is:

(a) Bengaluru
(b) Chennai
(c) Delhi
(d) Mumbai

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

General Intelligence and Reasoning

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

Numerical Aptitude

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

General Awareness

1	**(d)**	2	**(a)**	3	**(d)**	6	**(d)**		**(c)**	10	**(d)**	11	**(b)**	12	**(c)**	13	**(b)**	14	**(a)**
15	**(b)**	16			**(b)**	19	**(b)**	20	**(a)**	21	**(c)**	22	**(a)**	23	**(b)**	24	**(a)**	25	**(c)**