PREVIOUS YEAR PAPER

SSC MTS 2021 — 22 July 2022, Shift 1

SSC MTS & Havaldar · 22 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 22 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-2021-22-jul-shift-1/

General English

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

Every time he tried to eat with a chopstick he failed to do _____.

(a) so
(b) it
(c) that
(d) this

Answer: (a)

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

Eternity

(a) Moment
(b) Flash
(c) Purity
(d) Forever

Answer: (d)

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

The _____ for this distance will be ninety cents.

(a) flair
(b) flower
(c) fair
(d) fare

Answer: (d)

4. Select the option which has no spelling error.

The roll of the Union goverment is technical.

(a) The role of the Union goverment is tecnical.
(b) The rolle of the Union government is techhnical.
(c) The role of the Unioun goverment is technical.
(d) The role of the Union government is technical.

Answer: (d)

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

Rational

(a) Illogical
(b) Polite
(c) Conscious
(d) Impatient

Answer: (a)

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

The life history of a person written by himself

(a) Fable
(b) Autobiography
(c) Manuscript
(d) Anecdote

Answer: (b)

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

The books <u>has become enormously</u> popular with students who do not like to read.

(a) have become enormous
(b) No improvement required
(c) have became enormously
(d) have become enormously

Answer: (d)

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

Relentless

(a) Tenacious
(b) Determined
(c) Yielding
(d) Swarming

Answer: (c)

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

Desert flowers bloom whenever it raining, and the sight can be rewarding.

(a) whenever it rains
(b) No improvement required
(c) when it rained
(d) when its raining

Answer: (a)

10. 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.

The global pandemic remind us that even local censorship can have global consequences.

(a) can have global consequences
(b) The global pandemic remind us
(c) that even local censorship
(d) No error

Answer: (b)

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

_____ you don't want to sleep, then leave this room.

(a) As
(b) If
(c) So
(d) Whether

Answer: (b)

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

Leave no stone unturned

(a) To act in a strange manner
(b) Make all possible efforts
(c) To get fired from the job
(d) Not willing to accept the ideas of others

Answer: (b)

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

It was raining heavily, that's why your father _____ at my place last night.

(a) delayed
(b) peddled
(c) stayed
(d) berated

Answer: (c)

14. 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.

There is no denying / that our country is in / an major economic slump.

(a) that our country is in
(b) There is no denying
(c) an major economic slump
(d) No error

Answer: (c)

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

They are perceptive observers of social groups.

(a) Conflicted
(b) Astute
(c) Imbecile
(d) Witless

Answer: (b)

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

An unconventional style of living

(a) Martyr
(b) Bohemian
(c) Stoic
(d) Cynic

Answer: (b)

17. Select the INCORRECTLY spelt word.

(a) Crater
(b) Mantle
(c) Volkano
(d) Earthquake

Answer: (c)

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

A pipe dream

(a) An illusory plan

(b) A secret

(c) A realistic dream

(d) A clever strategy

Answer: (a)

19. 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.

Telecom is one of Indias globally recognised success stories.

(a) recognised success stories

(b) Telecom is one of

(c) No error

(d) Indias globally

Answer: (d)

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

One who dislikes art and culture

(a) Expert

(b) Philistine

(c) Mercenary

(d) Professional

Answer: (b)

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.
>
> Heat exhaustion can be a recreational hazard, (1) _____ for athletes playing sports outdoors (2) _____ wearing heat-trapping clothing and gear when temperatures are high, (3) _____ as the case in American football. Small studies (4) _____ aimed to design more (5) _____ football uniforms.

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

(a) casually

(b) individually

(c) especially

(d) radically

Answer: (c)

22. Select the most appropriate option to fill in blank number 2.
    (a) Since
    (b) While
    (c) Instead
    (d) otherwise
    Answer: (b)

23. Select the most appropriate option to fill in blank number 3.
    (a) Rather
    (b) So
    (c) Such
    (d) That
    Answer: (c)

24. Select the most appropriate option to fill in blank number 4.
    (a) Have
    (b) Will
    (c) Has
    (d) Did
    Answer: (a)

25. Select the most appropriate option to fill in blank number 5.
    (a) wretched
    (b) sheltered
    (c) miserable
    (d) breathable
    Answer: (d)

General Intelligence and Reasoning

1. 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 electron is a proton. No proton is a neutron.

Conclusions:
I) It is possible for some electrons to be neutrons.
II) All neutrons are electrons.
    (a) Neither conclusion I nor II follows
    (b) Only conclusion II follows
    (c) Only conclusion I follows
    (d) Both conclusions I and II follow
    Answer: (c)

2. 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)

(1056, 11, 16) (480, 10, 8)

(a) (88, 2, 7)

(b) (110, 3, 6)

(c) (384, 8, 4)

(d) (90, 3, 5)

Answer: (d)

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

1, 3, 17, 55, ?, 179, 265, 375

(a) 169

(b) 157

(c) 91

(d) 105

Answer: (d)

4. Five people, L, M, N, R and S are sitting in a straight row, facing north, but not necessarily in the same order. Only M sits between L and S. N sits to the immediate right of S. R sits to the immediate left of L. Who sits at the second position from the left end?

(a) L

(b) S

(c) M

(d) R

Answer: (a)

5. 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.

OMP : QPT :: FOR : ?

(a) HSV

(b) HRU

(c) HRV

(d) HSU

Answer: (c)

6. 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.

33 : 101 :: 39 : ? :: 35 : 107

(a) 117

(b) 119

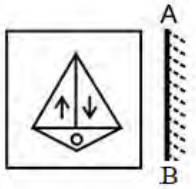
(c) 113

(d) 115

Answer: (b)

7.

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



(a)



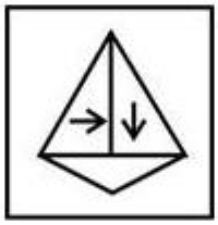
(b)



(c)



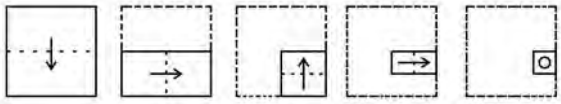
(d)



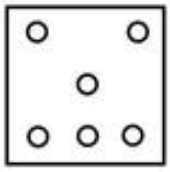
Answer: (a)

8.

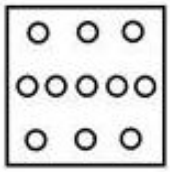
The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



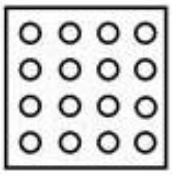
(a)



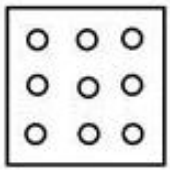
(b)



(c)



(d)



Answer: (c)

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

Doctor : Diagnosis :: Painter : Painting :: Judge : ?

(a) Judgement

(b) Lawyer

(c) Court

(d) Punishment

Answer: (a)

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:
I. All P’s are M.
II. Some Q’s are
P.

Conclusions: I. Some M’s are
Q. II. Some P’s are Q. III. Some M’s are P.

(a) Both conclusions I and III follow.

(b) Only conclusion III follows.

(c) Conclusions I, II and III follow.

(d) Only conclusion II follows.

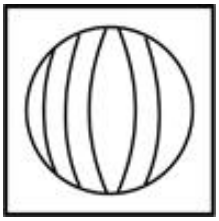
Answer: (c)

11.

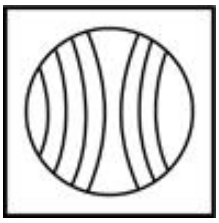
Select the option figure in which the given figure is embedded (rotation is NOT allowed).



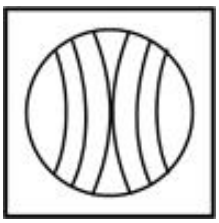
(a)



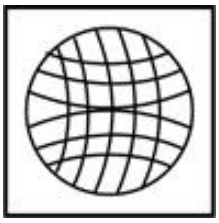
(b)



(c)



(d)



Answer: (c)

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

MN, NM, OL, PK, ?

(a) LQ

(b) QJ

(c) KJ

(d) JK

Answer: (b)

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

6, 11, 21, 41, 81, ?

(a) 241
(b) 151
(c) 161
(d) 240

Answer: (c)

14. Which two numbers (NOT digits) should be interchanged to make the following equation mathematically correct?

8 ÷ 2 × 6 − 11 + 5 = 15

(a) 2 and 8
(b) 5 and 6
(c) 2 and 6
(d) 6 and 11

Answer: (b)

15. 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.

WOR : WSZ :: CLW : ?

(a) BPF
(b) BOF
(c) BOE
(d) BPG

Answer: (a)

16. In a certain code language, 'PINK' is coded as '25', and 'HEAR' is coded as '16'. How will 'FAIL' be coded in that language?

(a) 28
(b) 14
(c) 24
(d) 12

Answer: (b)

17. What will be the value of the following expression, if '+' and '×' are interchanged and '−' and '÷' are interchanged?

9 + 2 ÷ 5 × 4 − 2 = ?

(a) 4
(b) 12
(c) 3
(d) 15

Answer: (d)

18. The ages of seven colleagues are compared. Pawan is older than only Lalit and Kunal. Jatin is the oldest. Manish is younger than only Jatin. Nilesh and Ojha are older than Pawan. Who is the third youngest colleague?

(a) Pawan
(b) Nilesh
(c) Ojha
(d) Kunal

Answer: (a)

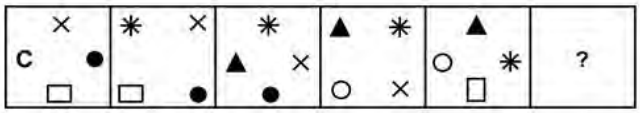
19. Five friends are sitting on a bench in a playground and facing north (but not necessarily in the same order) . Swati is to the immediate left of Rakhi and to the immediate right of Bindia. Meenal is to the right of Rakhi. Tina is exactly between Rakhi and Meenal.Who is sitting at the rightmost end?

(a) Tina
(b) Meenal
(c) Swati
(d) Rakhi

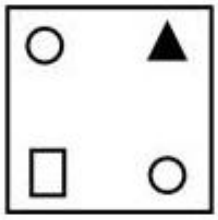
Answer: (b)

20.

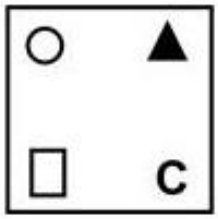
Select the figure from among the given options that can replace the question mark (?) in the following series.



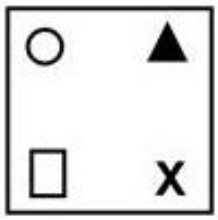
(a)



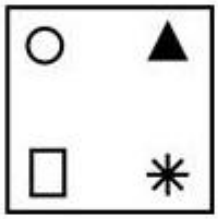
(b)



(c)



(d)



Answer: (c)

21. In a certain code language, 'GREAT' is coded as '96321', and 'TALMN' is coded as '12457'. How will 'REALM' be coded in that language?

(a) 63249

(b) 63247

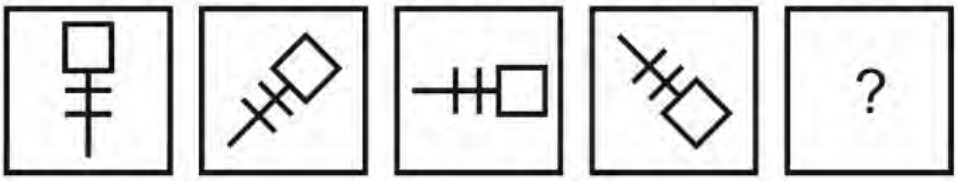
(c) 63245

(d) 62349

Answer: (c)

22.

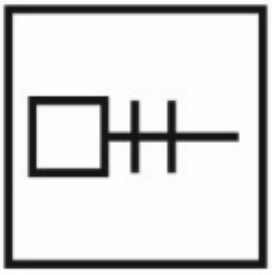
Select the figure from the given options that can replace the question mark (?) in the following series.



(a)



(b)



(c)



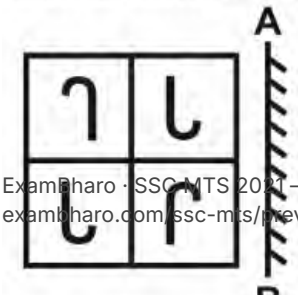
(d)



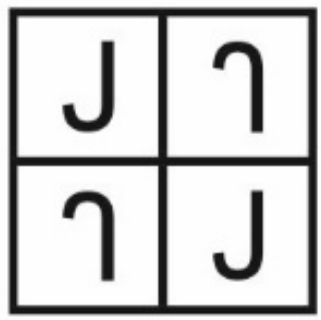
Answer: (c)

23.

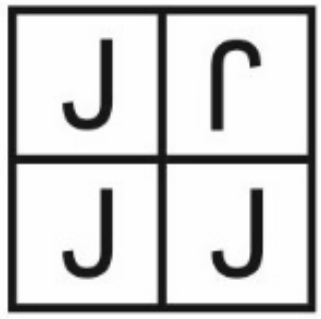
Select the correct mirror image of the given figure when the mirror is placed at the right side.



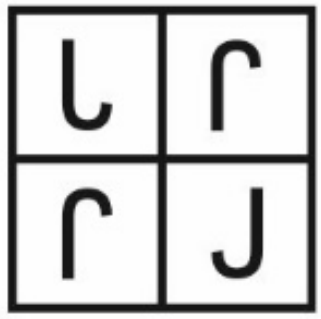
(a)



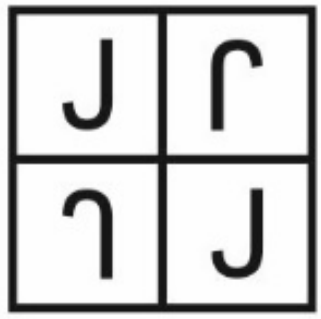
(b)



(c)



(d)



Answer: (d)

24. In a certain code language, '95784' is written as 'EGYPT', and '23614' is written as 'LIKRT'. How will '462893' be written in that language?

(a) ELIYPG

(b) TILGPY

(c) EKLYPT

(d) TKLPEI

Answer: (d)

25. In a certain code language, 'TYRE' is written as 'UZQD' and ‘SALE’ is written as ‘TBKD’.How will 'DISH' be written in that language?

(a) EJRG

(b) EIIH

(c) EJIG

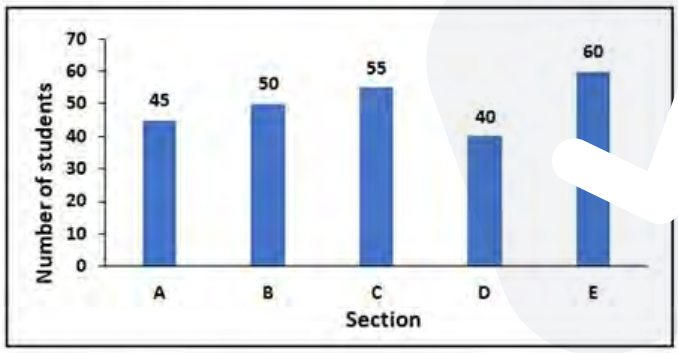
(d) CIRI

Answer: (a)

Numerical Aptitude

2.

The following bar graph shows the number of students in five different sections of Class 10.



What is the positive difference between the numbers of students in Section C and in Section D?

(a)

16

(b)

15

(c)

14

(d)

17

Answer: (b)

3.

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

$2 \times 324 \times ? = 9^2 \times 22^2 \times 6$

(a)

359

(b)

364

(c)

363

(d)

366

Answer: (c)

4.

Find the volume of a sphere having a diameter of 6 mm, in terms of π.

(a)

12π mm^3

(b)

24π mm^3

(c)

64π mm^3

(d)

36π mm^3

Answer: (d)

6.

The ratio of the length to the width of a rectangle is 3 : 2. If the length of this rectangle is increased by 25% and its width is kept constant, then the area of the rectangle increases by 24 m^2. What is the width of this rectangle?

(a)

12 m

(b)

10 m

(c)

8 m

(d)

15 m

Answer: (c)

7.

Simplify the following expression.

$12 + 11 - 13 + (4 + 3)$

(a)

17

(b)

16

(c)

18

(d)

15

Answer: (a)

8.

If ΔABC is similar to ΔDEF such that BC = 3 cm, EF = 4 cm and the area of ΔABC = 54 cm^2, then the area of ΔDEF is:

(a)

78 cm^2

(b)

96 cm^2

(c)

66 cm^2

(d)

44 cm^2

Answer: (b)

9.

At a certain rate of interest per annum, compounded annually, a certain sum of money amounts to two times of itself in 11 years. In how many years will the sum of money amount to four times of itself at the previous rate of interest per annum, also compounded annually?

(a)

20 years

(b)

5.5 years

(c)

22 years

(d)

33 years

Answer: (c)

10.

The table below shows the number of toys of 6 different colours sold from a shop during a given period. The table also shows the percentage of toys of each colour which are cars.

Colour	Total toys	Percentage of cars
C1	500	12
C2	600	15
C3	400	12.5
C4	550	10
C5	650	20
C6	450	10

What is the total number of car toys of C2 and C3 taken together?

(a)

150

(b)

160

(c)

140

(d)

130

Answer: (c)

11.

The speed of a superfast train, T_1 is 20% more than the speed of another superfast train T_2. Both the trains start from point N at the same time and reach point M at the same time. N and M are 500 km apart. T_1 stops for 10 minutes on the way to M, but T_2 covers the distance without any stops en route. What is the speed of T_1?

(a)

600 km/h

(b)

500 km/h

(c)

650 km/h

(d)

550 km/h

Answer: (a)

13.

The difference between 73% of a number and 45% of the same number is 112. Find the number.

(a)

450

(b)

400

(c)

500

(d)

550

Answer: (b)

14.

By selling an article for ₹600, a person made a profit of 50%. What was the cost price of this article?

(a)

₹300

(b)

₹450

(c)

₹400

(d)

₹350

Answer: (c)

17.

The average age of 9 girls is 16 years. The average age of 11 boys is 26 years. What is the average age of all these boys and girls taken together?

(a)

22 years

(b)

23 years

(c)

22.5 years

(d)

21.5 years

Answer: (d)

18.

The ratio of the number of boys to the number of girls in a class is 2 : 5. If 10 boys leave the class and 20 new girls join the class, then the new ratio of boys and girls in the class becomes 4 : 25. What is the number of boys in the class now?

(a)

12

(b)

8

(c)

9

(d)

22

Answer: (a)

19.

The given pie chart represents the distribution of the percentage of sales of a particular brand of a bike from five showrooms, A, B, C, D and E during 2021.



What is the central angle of the sector corresponding to the sales from showroom B?

(a)

$56.7°$

(b)

$52.8°$

(c)

$79.2°$

(d)

$72.6°$

Answer: (c)

23.

In what ratio must a supplier mix two varieties of pulses costing ₹10 per kg ₹30 per kg, respectively, so as to get a mixture worth ₹15 per kg?

(a)

$3 : 1$

(b)

$4 : 5$

(c)

$2 : 3$

(d)

$1 : 2$

Answer: (a)

24.

The average age of 30 employees in an organisation is 25 years. If 2 new employees with an average age of 41 years join the organisation, then find the new average age of all the employees in the organisation.

(a)
26 years

(b)
25 years

(c)
23 years

(d)
24 years

Answer: (a)

25.

The highest common factor and the least common multiple of two numbers are 12 and 120, respectively. If one of the numbers is 60, then what will be the other number?

(a)
12

(b)
18

(c)
20

(d)
24

Answer: (d)

General Awareness

1. What was the capital of the Satavahana Dynasty (60 BC - 225 AD)?

(a) Pratishthana

(b) Vidisha

(c) Patliputra

(d) Vanji

Answer: (a)

2. Which fundamental right provided in Indian Constitution prohibits traffic in human beings and forced labour?

(a) Right to freedom

(b) Right to constitutional remedies

(c) Right to equality

(d) Right against exploitation

Answer: (d)

3. Which of the following is an example of sedimentary rocks?

(a) Granite
(b) Sandstone
(c) Marble
(d) Basalt

Answer: (b)

4. Through the 42nd Amendment, which of the following was inserted in the Indian Constitution?

(a) Fundamental Rights
(b) Appointment of Supreme court judges
(c) Directive Principles
(d) Fundamental Duties

Answer: (c)

5. Who used the ancient texts to suggest that widows could remarry?

(a) Narayan Guru
(b) Pandita Ramabai
(c) Ishwar Chandra Vidyasagar
(d) Raja Ram Mohan Roy

Answer: (c)

6. In India, social groups which are most vulnerable to poverty are _____.
I. Scheduled Caste households
II. Scheduled Tribe households

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

Answer: (b)

7. Which of the following determines the colour, texture, chemical properties, mineral, content, and permeability of the soil?

(a) Parent rock
(b) Time
(c) Relief
(d) Climate

Answer: (a)

8. Name the ICC Women Cricketer of the year in 2021.

(a) Harmanpreet Kaur
(b) Mithali Raj
(c) Smriti Mandhana
(d) Jhulan Goswami

Answer: (c)

9. Which of the following are situated in the nucleus of a cell?
   (a) Chromosome and genes
   (b) Cytoplasm and chromosome
   (c) Nucleolus and cytoplasm
   (d) Protoplasm and chromosome
   Answer: (a)

10. Which of the following is the state of origin of the Sattriya dance form?
   (a) Uttar Pradesh
   (b) Tamil Nadu
   (c) Assam
   (d) Manipur
   Answer: (c)

11. In which state of India are Buddhist cave temples, Barabar Caves, located?
   (a) West Bengal
   (b) Sikkim
   (c) Uttar Pradesh
   (d) Bihar
   Answer: (d)

12. Mando festival is related to which state of India?
   (a) Jharkhand
   (b) Karnataka
   (c) Bihar
   (d) Goa
   Answer: (d)

13. As per Census 2011, which of the following is the correct range of population of India?
   (a) 1.2–1.3 billion
   (b) 0.5–0.6 billion
   (c) 3.0–3.1 billion
   (d) 2.0–2.1 billion
   Answer: (a)

14. Bessie Award is a dance award given in which country?
   (a) Germany
   (b) Norway
   (c) Australia
   (d) USA
   Answer: (d)

15. Indian Railways ferries which of the following commodities the most as per tonnage, as of April 2022?

(a) Cement
(b) Food grains
(c) Coal
(d) Steel

Answer: (c)

16. S Balachander is famous for playing the _____.

(a) sitar
(b) veena
(c) violin
(d) flute

Answer: (b)

18. Which of the following statements is correct?
I. Rolling friction is greater than the sliding friction.
II. The frictional force exerted by fluids is called drag.

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

Answer: (d)

19. The tertiary sector of Indian Economy is later _____.

(a) manufacturing sector
(b) agriculture and related sectors
(c) electricity and coal
(d) transport, communication and business/services

Answer: (d)

20. Rama is suffering from chickenpox. What type of disease is it?

(a) Fungal disease
(b) Hereditary disease
(c) Viral disease
(d) Bacterial disease

Answer: (c)

21. Which Indian movement was started to look into the problems of indigo planters in the year 1917?

(a) Champaran Satyagraha
(b) Non-Cooperation Movement
(c) Kheda Satyagraha
(d) Ahmedabad Mill Strike

Answer: (a)

22. Which of the following persons was a slave-generals of Alauddin Khalji (1296-1316 AD)?
    (a) Malik Kafur
    (b) Ulugh Khan
    (c) Jauna Khan
    (d) Nasiruddin Shah
    Answer: (a)

23. Which country will host the 2022 Commonwealth Games?
    (a) Australia
    (b) Scotland
    (c) Canada
    (d) England
    Answer: (d)

24. Which Ministry of the Government of India organised 'Gender Samwaad' in March 2022?
    (a) Ministry of Panchayati Raj
    (b) Ministry of Labour & Employment
    (c) Ministry of Culture
    (d) Ministry of Rural Development
    Answer: (d)

25. Who was the first Indian captain to lift the Internat al Cricket Council (ICC) Cricket World Cup?
    (a) Virat Kohli
    (b) MS Dhoni
    (c) Mohinder Amarnath
    (d) Kapil Dev
    Answer: (d)

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

General Intelligence and Reasoning

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

Numerical Aptitude

2	**(b)**	3	**(c)**	4	**(d)**	6	**(c)**	7	**(a)**	8	**(b)**	9	**(c)**	10	**(c)**
11	**(a)**	13	**(b)**	14	**(c)**	17	**(d)**	18	**(a)**	19	**(c)**	23	**(a)**	24	**(a)**
25	**(d)**														

General Awareness

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