PREVIOUS YEAR PAPER

SSC MTS 2021 — 22 July 2022, Shift 2

SSC MTS & Havaldar · 22 July 2022 · 1:00 PM - 2:30 PM

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

Left out of the original paper: 8 (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, 1:00 PM - 2:30 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-2021-22-jul-shift-2/

General English

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

Scholars have / studied the lives of / present-day farmer’s / who practice agriculture.

(a) who practice agriculture
(b) present-day farmer’s
(c) studied the lives of
(d) Scholars have

Answer: (b)

2. The following sentence has been divided into part[illegible]one of them may contain an error. Select the part that contains the error from the given options. [illegible]ou don’t find any error, mark ‘No error’ as your answer.

Her comfort was in her children; / her second son, Rupert, / was especially dear to her.

(a) No error
(b) was especially dear to her
(c) her second son, Rupert
(d) Her comfort was in her children

Answer: (a)

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

I <u>didn’t wanted</u> her to go out with her friends.

(a) doesn’t wanted
(b) No improvement required
(c) didn’t want
(d) didn’t wants

Answer: (c)

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

All Greek to me

(a) obvious
(b) Invisible
(c) incomprehensible
(d) familiar

Answer: (c)

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

An arm and a leg

(a) Willing to do something immediately
(b) A large amount of money
(c) At the service
(d) In a backward and forward motion

Answer: (b)

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

You don't seem to be _____ happy with this proposal.

(a) few
(b) many
(c) very
(d) some

Answer: (c)

7. Select the correctly spelt word.

(a) Harness
(b) Harnass
(c) Harnes
(d) Harnnes

Answer: (a)

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

Malleable

(a) Stiff
(b) Flexible
(c) Variable
(d) Resilient

Answer: (a)

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

He indicated that a vigorous recovery programme was being carried out; 90,000 reminders had been issued and thousands of summons sent.

(a) has been issued and thousands of summons sent
(b) No improvement required
(c) has been issued and thousands of summonses sent
(d) had been issued and thousands of summonses were sent

Answer: (d)

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

Occurring after the death of the said person

(a) Effusive
(b) Gregarious
(c) Fugitive
(d) Posthumous

Answer: (d)

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

My husband has committed a very heinous crime.

(a) Gruesome
(b) Appalling
(c) Delightful
(d) Cynical

Answer: (c)

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

I am not going to scold you anymore.

(a) Laud
(b) Chide
(c) Placate
(d) Startle

Answer: (b)

13. Select the INCORRECTLY spelt word.

(a) Beguille
(b) Blandishment
(c) Bereft
(d) Assiduous

Answer: (a)

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.

I liked talking to / you when you was / a small boy.

(a) you when you was
(b) No error
(c) a small boy
(d) I liked talking to

Answer: (a)

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

Voracious

(a) Greedy
(b) Restrained
(c) Moderate
(d) Truthful

Answer: (a)

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

Preserve

(a) Neglect
(b) Safeguard
(c) Treasure
(d) Descend

Answer: (a)

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

I prefer to have lunch with my family _____ Sundays.

(a) over
(b) on
(c) at
(d) in

Answer: (b)

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

Shirley have had all her children with the help of a fertility drug.

(a) Shirley had all her children through
(b) No improvement required
(c) Shirley have had all her children by
(d) Shirley has had all her children with

Answer: (d)

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

A place where dead bodies are kept for identification

(a) Hutch
(b) Morgue
(c) Crematorium
(d) Tannery

Answer: (b)

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

Feelings of great happiness and excitement

(a) Contentment
(b) Decadence
(c) Euphoria
(d) Desolation

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.
>
> The role of the school and teachers (1) _____ always been vital in the all-round personality (2) _____ of students. In fact, a teacher is a role (3) _____ influencing every facet of the student's growth and developing (4) _____ innate potential, in addition to (5) _____ a motivator, guide and friend.

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

(a) were
(b) has
(c) having
(d) have

Answer: (b)

22. Select the most appropriate option to fill in blank number 2.
    (a) development
    (b) turbulence
    (c) occupation
    (d) validation
    Answer: (a)

23. Select the most appropriate option to fill in blank number 3.
    (a) replica
    (b) template
    (c) model
    (d) double
    Answer: (c)

24. Select the most appropriate option to fill in blank number 4.
    (a) its
    (b) there
    (c) their
    (d) our
    Answer: (c)

25. Select the most appropriate option to fill in blank number 5.
    (a) been
    (b) having
    (c) being
    (d) seeing
    Answer: (c)

General Intelligence and Reasoning

1. Select the option that will replace the question mark (?) in the given series.

45, 46, 42, 51, 35, ?
    (a) 60
    (b) 55
    (c) 50
    (d) 62
    Answer: (a)

2. 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.

7 : 42 :: 9 : 72 :: 12 : ?

(a) 128

(b) 98

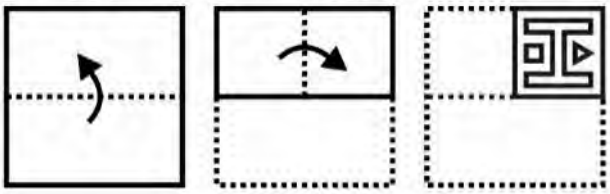
(c) 132

(d) 144

Answer: (c)

3.

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)



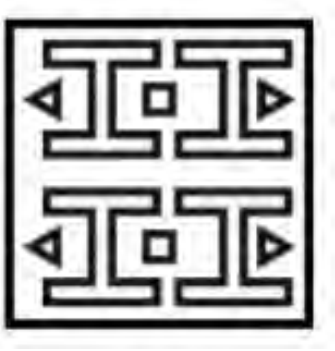
(b)



(c)



(d)



Answer: (b)

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

KRA, IQZ, ?, EOX, CNW

(a) GQY
(b) GPY
(c) HQX
(d) HPY

Answer: (b)

5. Which of the numbers (not digits) should be interch ged in the given equation to make it mathematically correct?

104 ÷ 4 − 6 + 13 × 5 = 22

(a) 13 and 4
(b) 6 and 4
(c) 6 and 5
(d) 13 and 6

Answer: (a)

6. In a certain code language, 'Milk are exhausting' is coded as '# tg 5', and 'Are water super milk' is coded as 'pa 5 6 #'. What is the code for 'super' in that language?

(a) tg
(b) 5 or 6
(c) pa or 6
(d) # or 5

Answer: (c)

7. In a certain code language, 'shoes are shining' is coded as '235', 'shining stars rotate' is coded as '458', and 'stars are round' is coded as '829'. How will 'are' be coded in that language?

(a) 3

(b) 8

(c) 9

(d) 2

Answer: (d)

8.

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



(a)



(b)



(c)



(d)



Answer: (d)

9.

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



(a)



(b)



(c)



(d)



Answer: (b)

10. By interchanging the given two numbers (not digits), which of the following equations will NOT be correct?

11 and 17
I. 400 + 17 – 71 × 85 ÷ 11 = 58
II. 1331 ÷ 17 – 50 + 6 × 11 = 173

(a) Only I

(b) Both I and II

(c) Only II

(d) Neither I nor II

Answer: (a)

11. 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.

Statement I: All criminals are thieves. Statement II: Rakesh is a thief.

Conclusion I: Rakesh is a criminal. Conclusion II: Some thieves may not be criminals.

(a) Only conclusion II follows.

(b) Both conclusions I and II follow.

(c) Neither conclusion I nor II follows.

(d) Only conclusion I follows.

Answer: (a)

12. In a certain code language, 'POEM' is written as 'ODQO', 'HARD' is written as 'FQCG'. How will 'RNGC' be written in that language?

(a) FEPQ

(b) EEPQ

(c) FFPQ

(d) EFPQ

Answer: (d)

13. A, B, R, D, I, S, and T are sitting around a circular table facing away from the circle. A does not sit adjacent to I and T. B does not sit adjacent to A. R sits fourth to the left of A. D and B sit adjacent to each other. S sits third to the left of I. Who is the immediate neighbour of both T and A?

(a) S

(b) T

(c) B

(d) R

Answer: (a)

14. In a certain code language, 'LUNCH' is written as 'NWPEJ', and 'FAITH' is written as 'HCKVJ'. How will 'SPACE' be written in that language?

(a) USCEG

(b) URBEG

(c) URCFG

(d) URCEG

Answer: (d)

16. Among seven persons A, B, C, D, E, F and G, who are of different ages, D is younger than only A and E. E is younger to A and older than B. C is third youngest. F and G are second youngest and youngest respectively. Who is the fourth eldest?

(a) D

(b) C

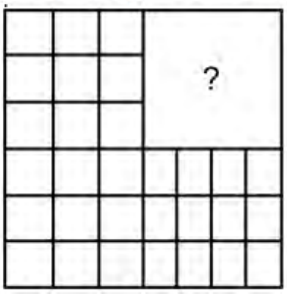
(c) B

(d) E

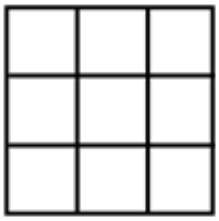
Answer: (c)

17.

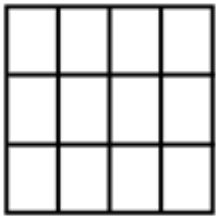
Select the figure from the options that can replace the question mark (?) and complete the pattern.



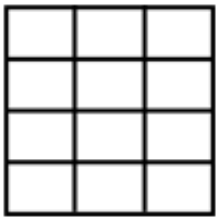
(a)



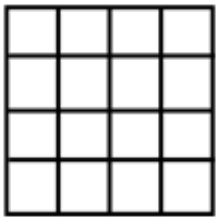
(b)



(c)



(d)



Answer: (b)

18. 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 Parrots are Birds. All Birds are Mammals.

Conclusions:

I. All Mammals are Birds.
II. Some Mammals are Parrots.

(a) Neither conclusion I nor II follow.

(b) Only conclusion II follows.

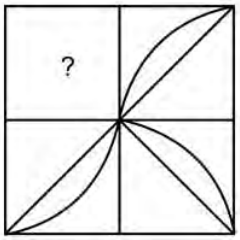
(c) Both conclusions I and II follow.

(d) Only conclusion I follows.

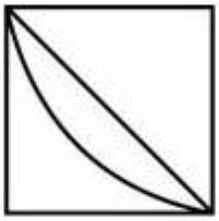
Answer: (b)

19.

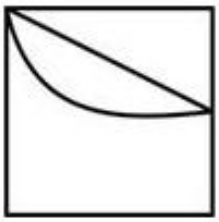
Select the figure from the options that can replace the question mark (?) and complete the given pattern (rotation is not allowed).



(a)



(b)



(c)



(d)



Answer: (a)

20. 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.

RL : OQ :: GO : ?

(a) DT

(b) CT

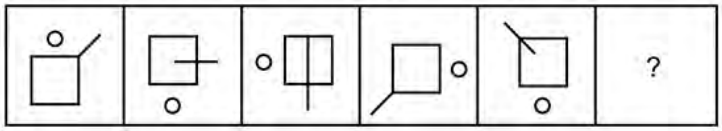
(c) DS

(d) ES

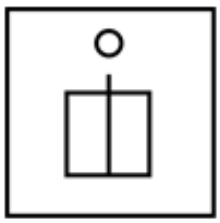
Answer: (a)

22.

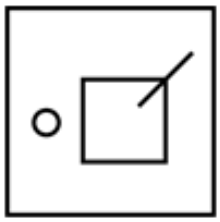
Select the figure from among the given options that can replace the question mark (?) in the following series.



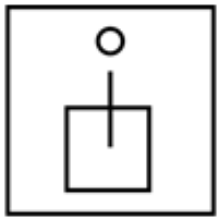
(a)



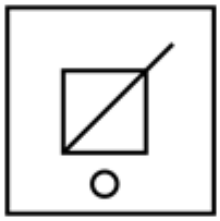
(b)



(c)



(d)



Answer: (a)

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

94, 95, 100, 109, 122, ?

(a) 133
(b) 137
(c) 139
(d) 141

Answer: (c)

24. 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.

SIPL : AQXT :: ADGJ : ILOR :: UMEB : ?

(a) CUMJ
(b) MCUF
(c) CUFM
(d) JCUM

Answer: (a)

25. Five men Z, X, H, I and J are sitting around a circular table, facing towards the centre (but not necessarily in the same order). Z is sitting second to the left of I. H is sitting second to the right of X. J is not the immediate neighbour of Z. Who is sitting second to the right of X?

(a) I
(b) Z
(c) H
(d) J

Answer: (a)

Numerical Aptitude

1.

The LCM of two numbers is 450. If the product of the two numbers is 20250, then find their HCF.

(a)
90
(b)
15
(c)
150
(d)
45

Answer: (d)

2.

If the ratio of an external angle and an internal angle of a regular polygon is 1 : 5 , then what is the number of sides in the polygon?

(a)

24

(b)

22

(c)

12

(d)

30

Answer: (c)

3.

The average marks of a group of 16 students in a test are reduced by 4 when the topper, who scored 92 marks, is replaced by a new student. What are the marks scored by the new student?

(a)

18

(b)

28

(c)

32

(d)

22

Answer: (b)

4.

The selling price of an item is 20% less than its marked price. The marked price of the item is 30% more than the cost price. What is the profit percentage?

(a)

10%

(b)

4%

(c)

6%

(d)

8%

Answer: (b)

6.

The average of 12 consecutive odd numbers is 32. What is the difference between the largest number and the smallest number that are part of the set of 12 consecutive odd numbers mentioned above?

(a)

22

(b)

25

(c)

21

(d)

18

Answer: (a)

7.

The ratio of P and Q in an alloy is 3 : 7. If the alloy is made of only P and Q, how much amount of Q will be there in 1800 kg of that alloy?

(a)

1150 kg

(b)

1320 kg

(c)

1210 kg

(d)

1260 kg

Answer: (d)

8.

Sneha bought a fridge for ₹10,000. She spent ₹5,000 on its repairs, and then sold it for ₹16,000. Find the gain percentage.

(a)

20%

(b)

6.67%

(c)

55.48%

(d)

30%

Answer: (b)

9.

The average of seven numbers is 9. If each number is multiplied by a number P, then the average becomes 36. What is the value of P?

(a)
4

(b)
18

(c)
27

(d)
5

Answer: (a)

10.

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

62% of 2200 – 24% of (?) = 932

(a)
4320

(b)
2200

(c)
1364

(d)
1800

Answer: (d)

11.

What is the value of $56 - [36 - \{2 + 10 \times (6 - 3)\}]$?

(a)
26

(b)
44

(c)
50

(d)
52

Answer: (d)

12.

What is the value of $\dfrac{\frac{5}{6}-\frac{5}{11} \text{ of } \left[\frac{3}{7}+\frac{8}{12}\div\frac{6}{24}+\frac{5}{7}\right]}{\frac{3}{12}\times\frac{6}{5}}$?

(a)

$\frac{-1891}{691}$

(b)

$\frac{2075}{693}$

(c)

$\frac{-1894}{891}$

(d)

$\frac{-2075}{693}$

Answer: (d)

13.

The following table shows the number of trains that originate in the five ent zones of the railway network of a country.

Zone	Trains
Z1	690
Z2	710
Z3	830
Z4	670
Z5	900

The total number of trains that originate in Z3 and Z4 taken together is what percentage of the total number of trains that originate in all the 5 zones taken together? [Give your answer correct to 2 decimal places.]

(a)

43.49%

(b)

31.23%

(c)

39.47%

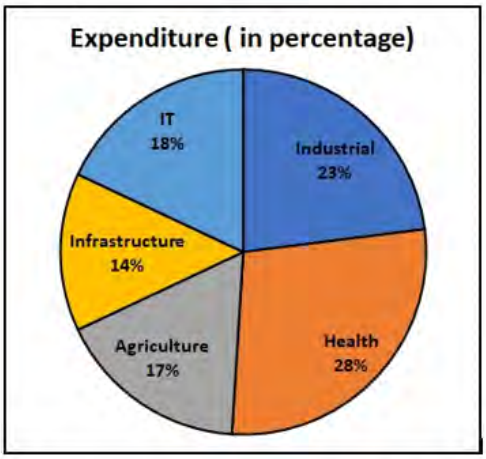
(d)

45.61%

Answer: (c)

14.

The following pie chart shows the expenditure of a village in a given year in the different sectors of its economy.



If the amount spent on agriculture was ₹8.5 crore, then find the amount spent in the IT sector.

(a)

₹7.5 crore

(b)

₹10.5 crore

(c)

₹8 crore

(d)

₹9 crore

Answer: (d)

16.

Profit earned on selling a book for ₹450 is the same as the loss incurred on selling it for ₹390. Find the cost price of the book.

(a)

₹380

(b)

₹460

(c)

₹360

(d)

₹420

Answer: (d)

17.

The length, the breadth, and the height of a closed cardboard box are in the ratio of 5 : 3 : 7, respectively. Find the length of this box, if its total surface area is 1278 cm^2.

(a)

20 cm

(b)

15 cm

(c)

25 cm

(d)

10 cm

Answer: (b)

18.

If a sum of money amounts to 6 times of itself in 25 years at simple interest, then what is the rate of interest per annum?

(a)

20%

(b)

22.5%

(c)

15%

(d)

25%

Answer: (a)

19.

Train A crosses train B completely in 90 seconds, with the trains running in opposite directions. The lengths of the trains A and B are 900 metres and 1800 metres, respectively. If the speed of train A is 45 km/h, then in how much time can train B cross a stationary pole?

(a)

$\frac{830}{7}$ seconds

(b)

$\frac{810}{7}$ seconds

(c)

$\frac{720}{7}$ seconds

(d)

$\frac{650}{7}$ seconds

Answer: (c)

21.

If A and B together can do a piece of work in 5 days, and A alone can do the same work in 10 days, then in how many days can B alone do the piece of work?

(a)

10 days

(b)

11 days

(c)

12 days

(d)

13 days

Answer: (a)

22.

12 women can make 15 toys in 6 days if they work for 8 hours a day. If 20 toys are to be made by 10 women, working 12 hours a day, then how many days will be required?

(a)

6.8 days

(b)

7.8 days

(c)

6.4 days

(d)

5.4 days

Answer: (c)

23.

The volume of a cube is 3375 cm^3. What is the length of the longest rod that can be placed in this cube?

(a)

15 cm

(b)

$15\sqrt{3}$ cm

(c)

45 cm

(d)

$12\sqrt{3}$ cm

Answer: (b)

24.

A 600-metre-long train is running at a speed of 48 km/h. It crosses a platform completely in 4 minutes and 30 seconds. What is the length of the platform?

(a)
1800 m

(b)
3600 m

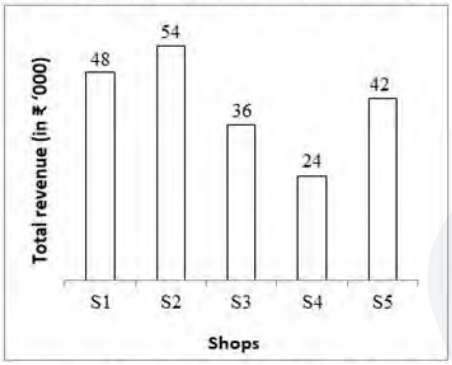
(c)
2400 m

(d)
3000 m

Answer: (d)

25.

The bar chart given below shows the total revenue (in ₹ '000) earned by 5 shops by selling steel bottles.



The price of each bottle is ₹ 600 in all the shops. How many bottles have been sold by S2 and S3 taken together?

(a)
120

(b)
135

(c)
150

(d)
165

Answer: (c)

General Awareness

1. Which of the following is the fifth state of matter?

(a) Gas

(b) Liquid

(c) Plasma

(d) Bose-Einstein condensates

Answer: (d)

2. Who has been appointed the first deputy managing director of the International Monetary Fund?

(a) Urjit Patel
(b) Gita Gopinath
(c) V Anantha Nageswaran
(d) Raghuram Rajan

Answer: (b)

3. Which famous Kathak dancer was called to perform for Queen Elizabeth II coronation festivities, in 1953 and was awarded with Padma Bhushan in 1970?

(a) Sridevi
(b) Kumari Kamala
(c) Kanaka Raju
(d) Mallika Sarabhai

Answer: (b)

5. Who was India's first Olympian who went on to star in Hollywood and Broadway?

(a) Milkha Singh
(b) Norman Pritchard
(c) Virat Kohli
(d) PT Usha

Answer: (b)

6. The tax imposed on goods imported into and expo d out of India is called _____.

(a) corporation tax
(b) excise tax
(c) capital gain tax
(d) custom duty

Answer: (d)

7. Which of the following is the largest moon of Saturn?

(a) Europa
(b) Atlas
(c) Titan
(d) Carme

Answer: (c)

8. Chennai Super Kings defeated which team to win IPL 2021?

(a) Mumbai Indians
(b) Sunrisers Hyderabad
(c) Kolkata Night Riders
(d) Delhi Capitals

Answer: (c)

9. As of April 2022, who is the Chairman of Rajya Sabha?

(a) Shri Om Birla
(b) Shri M Venkaiah Naidu
(c) Shri Narendra Modi
(d) Shri Amit Shah

Answer: (b)

10. The Rajya Sabha passed the National Institute of Pharmaceutical Education and Research (NIPER) Amendment Bill, 2021. The institutes mentioned in the bill are of national importance and fall under the aegis of the Department of Pharmaceutical, Ministry of _____.

(a) Chemicals and Fertilisers
(b) Health and Family Welfare
(c) Consumer Affairs, Food and Public Distribution
(d) AYUSH

Answer: (a)

11. Which state has the highest reserves of manganese in India, as of April 2022?

(a) Odisha
(b) Chhattisgarh
(c) Bihar
(d) Maharashtra

Answer: (a)

12. Which of the following architectural styles had a ntrance gateway called 'gopuram'?

(a) Buddhist architecture
(b) Nagara architecture
(c) Dravidian architecture
(d) Indo-Islamic architecture

Answer: (c)

13. Citric acid is commonly found in _____.

(a) onions
(b) apples
(c) oranges
(d) bananas

Answer: (c)

14. Which of the following statements is correct?
I. Tipu Sultan is also known as the Tiger of Mysore.
II. Tipu Sultan ruled over Mysore from 1782 to 1799.

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

Answer: (d)

15. Which Indian musician was conferred with the Lifetime achievement Grammy Award?

(a) Sonu Nigam
(b) Pandit Ravi Shankar
(c) Zubin Mehta
(d) AR Rahman

Answer: (b)

17. Which freedom fighter of India composed the song, 'Saare Jahan Se Achha'?

(a) Jawaharlal Nehru
(b) Jyotiba Phule
(c) Mahatma Gandhi
(d) Muhammad Iqbal

Answer: (d)

19. The green plants in a terrestrial ecosystem capture about _____ of the energy of sunlight that falls on their leaves and convert it into food energy.

(a) 5%
(b) 14%
(c) 8%
(d) 1%

Answer: (d)

20. Pulakeshin II was a ruler of which dynasty?

(a) Chera
(b) Chola
(c) Chalukya
(d) Pallava

Answer: (c)

21. Who among the following rulers of Mewar was defeated by Babur in the Battle of Khanwa (1527 AD)?

(a) Rana Sanga
(b) Ahmed Shah I
(c) Rana Kumbha Karan
(d) Alauddin Khalji

Answer: (a)

22. Ugadi is an important festival of which state?

(a) Karnataka
(b) Haryana
(c) Bihar
(d) Goa

Answer: (a)

23. Which of the following was formed to maintain and develop road networks in Indian border areas for easy accessibility and connectivity?

(a) Border Roadways Authority

(b) Border Roads Organisation

(c) Indian Border Roadways

(d) Border Authority of India

Answer: (b)

24. Kalbelia is a tribal dance form of which Indian state?

(a) Rajasthan

(b) Kerala

(c) Meghalaya

(d) Goa

Answer: (a)

25. Which Article of the Constitution of India states the 'Right to freedom of speech and expression'?

(a) Article 370

(b) Article 200

(c) Article 19

(d) Article 377

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

General Intelligence and Reasoning

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

Numerical Aptitude

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

General Awareness

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