PREVIOUS YEAR PAPER

SSC MTS 2021 — 21 July 2022, Shift 1

SSC MTS & Havaldar · 21 July 2022 · 9:00 AM - 10:30 AM

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

Left out of the original paper: 11 (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 21 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-2021-21-jul-shift-1/

General English

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

Interfere

(a) Activate
(b) Masquerade
(c) Hasten
(d) Restrict

Answer: (d)

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

I was not even _____ that my friend was i

(a) alert
(b) brave
(c) aware
(d) cruel

Answer: (c)

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

We've got to have / beefed-up intelligence, / including much strong / human intelligence than before.

(a) We've got to have
(b) human intelligence
(c) including much strong
(d) beefed-up intelligence

Answer: (c)

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

The small farmers often need at borrow money to meet high expenses.

(a) No improvement required
(b) needs to
(c) need to
(d) needing to

Answer: (c)

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

The blue team _____ the red team to play the game.

(a) surrendered
(b) compromised
(c) challenged
(d) heated

Answer: (c)

7. Select the option that corrects the misspelt words in the given sentence.

We will always rember your contribusion.

(a) We will always remembar your contributoin.
(b) We will always remember your contribution.
(c) We will always remmember your contrabuti
(d) We will always remembber your contri

Answer: (b)

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

Blissful

(a) Idealised
(b) Malicious
(c) Miserable
(d) Heavenly

Answer: (c)

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

He was a _____ man and had no wish to be rich.

(a) poverty
(b) poorly
(c) poor
(d) poorer

Answer: (c)

10. 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.

An opportunity arise, and / he decided to take the / job in Brussels.

(a) No error
(b) An opportunity arise, and
(c) he decided to take the
(d) job in Brussels

Answer: (b)

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

Suggesting that Irish inflation may have a knock-on effect on the euro zone is fatuous and absurd.

(a) Relevant
(b) Serious
(c) Meek
(d) Sensible

Answer: (d)

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

All eyes and ears

(a) To be attentive
(b) To threaten someone
(c) To believe everyone
(d) Full of bluster

Answer: (a)

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

Either you and my sister is involved in this crime.

(a) you or mine
(b) you nor my
(c) you or my
(d) No improvement required

Answer: (c)

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

Government by king or queen

(a) Monarchy
(b) Capitalism
(c) Plutocracy
(d) Oligarchy

Answer: (a)

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

Beyond the shadow of a doubt

(a) located in a remote area
(b) live in fear and uncertainty
(c) With certainty; for sure
(d) Forget all past problems

Answer: (c)

16. Select the correctly spelt word.

(a) Buraeucrat
(b) Buruaecrat
(c) Bureuacrat
(d) Bureaucrat

Answer: (d)

17. Parts of the given sentence have been giv ptions. 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.

Germs will always find a way to exploit our human environment.

(a) No error
(b) a way to exploit
(c) Germs will always find
(d) our human environment

Answer: (a)

18. Select the most appropriate synonym of the underlined word.

This style is ideal for men of all ages who wish to convey a dapper look.

(a) Messy
(b) Filthy
(c) Stylish
(d) Healthy

Answer: (c)

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

Violation or misuse of what is regarded as sacred

(a) Remedy
(b) Benediction
(c) Sacrilege
(d) Devotion

Answer: (c)

20. 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'.

Rioting broke out after the government raised the fuel prices again.

(a) raising
(b) raise
(c) No substitution required
(d) is raising

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.
>
> When it (1)_____ to witnessing wars, famines or disea outbreaks on the news, guilt may (2)_____ us to volunteer or donate money. Watching the generos of other people (3)_____ play an active role in helping others is also guilt-provoking, which can (4 ___ turn activate us to take similar (5)_____ thus paying forward.

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

(a) come
(b) coming
(c) comes
(d) came

Answer: (c)

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

(a) desire
(b) inspire
(c) conspire
(d) expire

Answer: (b)

23. Select the most appropriate option to fill in blank number 3.
    (a) who
    (b) whose
    (c) whom
    (d) which
    Answer: (a)

24. Select the most appropriate option to fill in blank number 4.
    (a) with
    (b) for
    (c) in
    (d) off
    Answer: (c)

25. Select the most appropriate option to fill in blank number 5.
    (a) animation
    (b) action
    (c) apathy
    (d) commotion
    Answer: (b)

General Intelligence and Reasoning

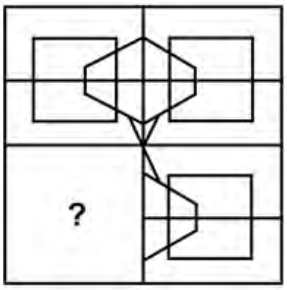
1. In a certain code language, 'RA + FE' is coded as [illegible]6', and 'AB + JC' is coded as '115'. How will 'AC + BD' be coded in that language?
    (a) 39
    (b) 23
    (c) 27
    (d) 37
    Answer: (d)

2. After interchanging which two signs will the value of the given expression be '37'?

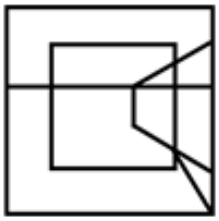
27 + 3 ÷ 81 × 93 – 57
    (a) + and ÷
    (b) – and +
    (c) × and +
    (d) ÷ and –
    Answer: (c)

3.

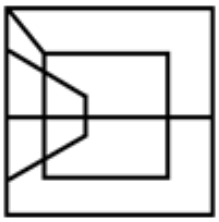
Select the figure from the options that can replace the question mark (?) and complete the pattern.



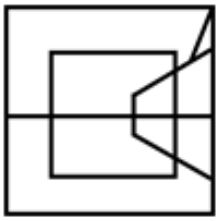
(a)



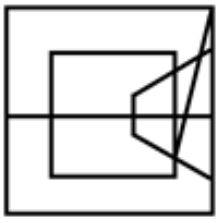
(b)



(c)



(d)



Answer: (c)

4. 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 apples are oranges. No orange is a grape.

Conclusions:
I. Some grapes are apples.
II. Some oranges are apples.

(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)

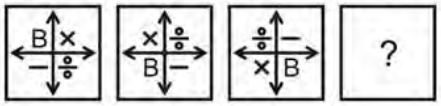
5. Eight friends, Jay, King, Lisa, Mon, Nia, Ori, Piu, and Ria are sitting around a circular table facing the centre. Jay is sitting second to the right of Piu who is sitting third to the right of King. Mon is sitting second to the left of Ori, who sits between Piu and Jay. Lisa is not a neighbour of King or Nia. Who is sitting to the immediate right of King?

(a) Piu
(b) Mon
(c) Ori
(d) Nia

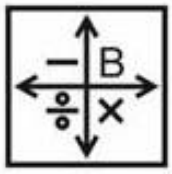
Answer: (d)

6.

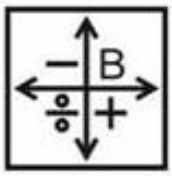
Select the figure from among the given options that can replace the question mark (?) in the following series.



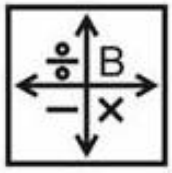
(a)



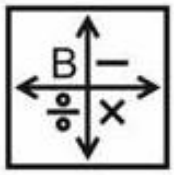
(b)



(c)



(d)



Answer: (a)

7. In a certain code language, 'HINTS' is coded as '5', and 'GRAD' is coded as '4'. How will 'POL' be coded in that language?

(a) 5

(b) 3

(c) 2

(d) 4

Answer: (b)

8. In a certain code language, 'ACTION' is written as '36' and 'PIZZA' is written as '25'. How will 'GALLERY' be written in that language?

(a) 59

(b) 39

(c) 64

(d) 49

Answer: (d)

9. 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.

(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) 12 : 225 :: 10 : 169 :: 14 : ?

(a) 289
(b) 441
(c) 361
(d) 529

Answer: (a)

10. 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.

DAT: GFA:: BNT: ESA:: PUN: ?

(a) SZU
(b) SZT
(c) SYU
(d) SZV

Answer: (a)

11. 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.

SB : VY :: GN : ?

(a) JL
(b) DR
(c) JK
(d) DQ

Answer: (c)

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

ROCK : JDNS

(a) WART : SSZX
(b) PICK : LDHQ
(c) GOLA : YMPH
(d) DRUM : LVQC

Answer: (a)

13. 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.

12 : 33 :: 31 : 71 :: 79 : ?

(a) 167
(b) 179
(c) 138
(d) 182

Answer: (a)

14. 6 boys B1, B2, B3, B4, B5 and B6 are sitting around a rectangular table facing towards the centre (not necessarily in the same order). Two boys are sitting on each longer side and one boy is sitting on each shorter side of the table. B1 sits second to the left of B6. B4 sits second to the left of B5. B5 is the immediate neighbour of B6 and B2. B5 is not sitting opposite to B4. B1 is not sitting on a shorter side.

Which pair of boys is sitting on a shorter side of the rectangular table?

(a) B1 and B4
(b) B4 and B2
(c) B2 and B3
(d) B6 and B3

Answer: (b)

15.

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



(a)



(b)



(c)



(d)



Answer: (b)

16. In a certain code language, 'That was his sister' is coded as 'Bo Uv Zs Mn', 'This was his cat' is coded as 'Zs Pt Uv Ga' and 'That was my father' is coded as 'Bo Uv Ex Yz'. What is the code for 'sister' in this code language?

(a) Bo

(b) Mn

(c) Zs

(d) Uv

Answer: (b)

17. 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)

(24, 8, 96) (36, 4, 72)

(a) (12, 6, 36)

(b) (30, 4, 40)

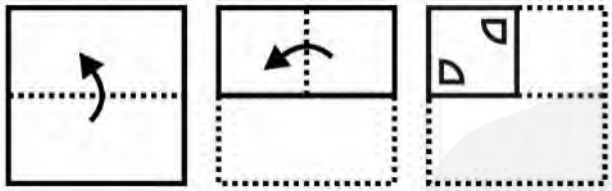
(c) (28, 8, 104)

(d) (16, 2, 18)

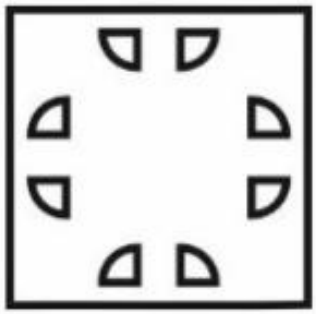
Answer: (a)

19.

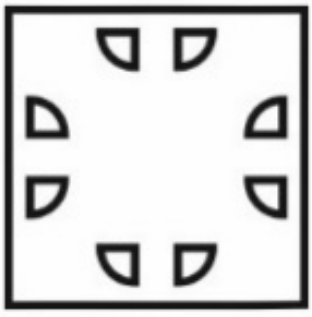
The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



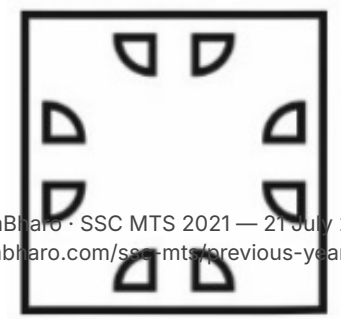
(a)



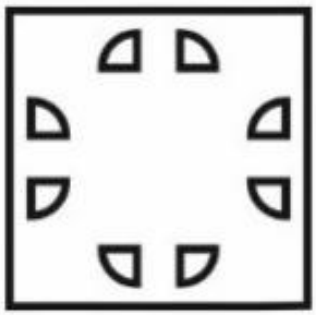
(b)



(c)



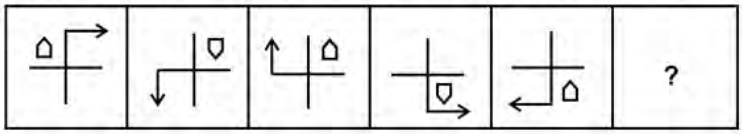
(d)



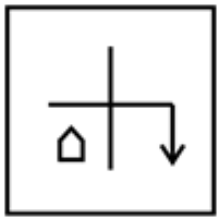
Answer: (c)

20.

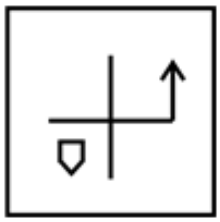
Select the figure from among the given options that can replace the question mark (?) in the following series.



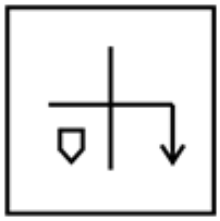
(a)



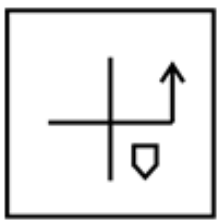
(b)



(c)



(d)



Answer: (b)

21. 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 W are B. II. All M are B.

Conclusions: I.Some B are M.
II. All W are M.
III. All B are W.

(a) Only conclusion II follows

(b) Only conclusion I follows

(c) Only conclusions I and III follow

(d) None of the conclusions follow

Answer: (b)

22. The ages of seven girls G1, G2, G3, G4, G5, G6 and G7 are compared. No two girls have the same age. The age of G3 is less than only two girls. The age of G1 is greater than G4 and G7. The age of G6 is the lowest. The age of G5 is not the highest and it is greater than G1. The age of how many girls is greater than G5?

(a) 1

(b) 4

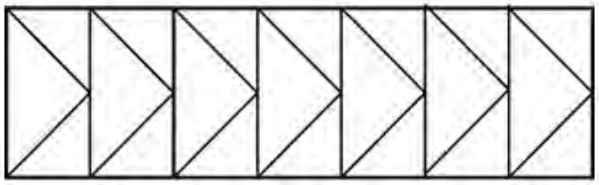
(c) 2

(d) 3

Answer: (a)

23.

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



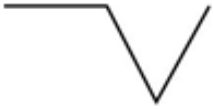
(a)



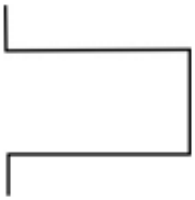
(b)



(c)



(d)



Answer: (b)

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

1.5, 2, 3, 6, 18, 108, 1964

(a) 108

(b) 6

(c) 18

(d) 1964

Answer: (d)

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

FAN, JDP, NGR, ?, VMV

(a) RJA

(b) RJV

(c) RJT

(d) RTJ

Answer: (c)

Numerical Aptitude

1.

Study the given table and answer the question that follows.

The table shows the marked prices (in ₹) and percentages of discount offered for five different products.

Product	Marked Price	Discount %
P	750	12
Q	900	15
R	1,020	30
S	1,200	25
T	590	10

If product Q is sold at 53% profit and product S is sold at 80% profit, then what will be the sum of the cost prices of Q and S?

(a)

₹1,100

(b)

₹800

(c)

₹1,000

(d)

₹1,200

Answer: (c)

2.

What is the value of 15% of 30% of 700?

(a)

29.5

(b)

31.5

(c)

32.5

(d)

28.5

Answer: (b)

4.

What is the value of $\frac{0.1 \div 0.2 \times 0.3 + 0.4 \times 0.5 \div 0.1}{0.1 \times 0.2 - 0.01}$?

(a)

220

(b)

210

(c)

216

(d)

215

Answer: (d)

5.

The perimeter of a square is 90 cm more than the length of each of its side. What is the length of each side of the square?

(a)

25 cm

(b)

30 cm

(c)

60 cm

(d)

45 cm

Answer: (b)

6.

What is the smallest three-digit number which, when divided by 8 or 6, leaves a remainder of 1 in each case?

(a)

121

(b)

119

(c)

123

(d)

125

Answer: (a)

7.

A girl, walking at $\frac{5}{6}$ of her usual speed, misses the bus by 7 minutes. How long does she usually take to reach the bus stop?

(a)

24 minutes

(b)

35 minutes

(c)

30 minutes

(d)

60 minutes

Answer: (b)

9.

₹2,400 is divided among three kids in the ratio of 2 : 3 : 3. Find the lowest share.

(a)

₹500

(b)

₹600

(c)

₹700

(d)

₹400

Answer: (b)

11.

A 30-litre mixture of milk and water contains 15% water. How much water must be added to it to increase the percentage of water in the solution to 37.5%?

(a)

6.0 liters

(b)

10.8 liters

(c)

7.2 liters

(d)

8.4 liters

Answer: (b)

13.

4 years ago, the age of Garvit was three times that of Yuvansh, but one year ago the age of Garvit was two times that of Yuvansh. What is the difference between the ages of Garvit and Yuvansh?

(a)

13 years

(b)

11 years

(c)

7 years

(d)

6 years

Answer: (d)

15.

The ratio of the selling price to the cost price of a computer is 7 : 5. What is the profit percentage?

(a)

60%

(b)

10%

(c)

40%

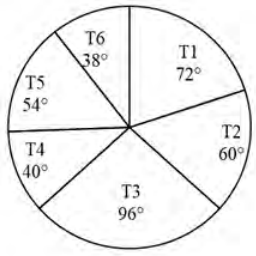
(d)

20%

Answer: (c)

16.

The pie chart given below gives the measures of the central angles of the sectors that reflect the number of flats in 6 different towers in a housing society with respect to the total flats in these 6 towers taken together.



If the difference between the number of flats in T2 and in T6 is 66, then what is the total number of flats in the 6 towers taken together?

(a)

1140

(b)

960

(c)

1220

(d)

1080

Answer: (d)

17.

The height of a trapezium is 68 cm, and the sum of its parallel ... is 75 ... If the area of the trapezium is $\frac{6}{17}$ times of the area of a square, then the length of the diagonal of the square is. ... $\sqrt{2} = 1.41$)

(a)

127.39 cm

(b)

183.49 cm

(c)

119.85 cm

(d)

102.39 cm

Answer: (c)

19.

A solid metallic sphere of radius 9 cm is melted and recast into a wire of radius 2 cm. What is the length of the wire?

(a)

343 cm

(b)

152 cm

(c)

243 cm

(d)

184 cm

Answer: (c)

21.

A can do a piece of work alone in 15 days, while B complete the same piece of work alone in 12 days. If they work on it together for 5 days, then the fraction of the work that will be left is:

(a)

$\frac{3}{4}$

(b)

$\frac{5}{8}$

(c)

$\frac{1}{4}$

(d)

$\frac{5}{7}$

Answer: (c)

22.

What is the average of 12.5, 18.4, 15.5, 16.6, and 20.4?

(a)
15.58
(b)
17.50
(c)
16.68
(d)
18.48

Answer: (c)

24.

A mobile phone is sold at a profit of 80%. The nominal profit is approximately what percentage of the selling price of the mobile phone?

(a)
33.33%
(b)
28.56%
(c)
44.44%
(d)
36.66%

Answer: (c)

General Awareness

1. Which freedom fighter is also known as the ‘Grand Old Man of India’?
(a) Chakravarti Rajagopalachari
(b) Dr. Zakir Hussain
(c) Dadabhai Naoroji
(d) Mahatma Gandhi

Answer: (c)

2. Which organisation of the government of India reports the GDP of the country?
(a) Securities and Exchange Board of India
(b) Central Statistics Office
(c) NITI Aayog
(d) Reserve Bank of India

Answer: (b)

3. Which of the following fundamental rights deals with 'Prohibition of Discrimination'?

(a) Right to Equality
(b) Right Against Exploitation
(c) Right to Freedom of Religion
(d) Right to Freedom

Answer: (a)

4. Uttar Pradesh won the 11th Junior National Men's Hockey Championship following a 3-1 victory over Chandigarh. Where was the event held?

(a) Bihar
(b) Tamil Nadu
(c) Delhi
(d) Chandigarh

Answer: (b)

5. 'Cracking the Code: My Journey to Bollywood' is the autobiography of _____.

(a) Rajkumar Rao
(b) Amit Sadh
(c) Sushant Singh Rajput
(d) Ayushmann Khurrana

Answer: (d)

6. At the age of _____, Mahavira left home and went ıve in a forest.

(a) 35
(b) 27
(c) 33
(d) 30

Answer: (d)

7. Which of the following factors increases the rate of evaporation?

I. An increase in surface area
II. A decrease in humidity

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

Answer: (a)

8. Mahogany tree is found in which of the following types of vegetation?

(a) Mangrove forests
(b) Tropical evergreen forests
(c) Tropical thorn forests
(d) Montane forests

Answer: (b)

9. How many Grammy nominations have been received by Zubin Mehta as of March 2022?

(a) 10
(b) 12
(c) 18
(d) 24

Answer: (c)

10. In which district of Rajasthan is the Elephant festival celebrated every year?

(a) Alwar
(b) Kota
(c) Jaipur
(d) Ajmer

Answer: (c)

11. Who among the following won the Filmfare Award for Best Choreography for the title song of Sushant Singh Rajput's film Dil Bechara?

(a) Remo D'Souza
(b) Ganesh Acharya
(c) Farah Khan
(d) Bosco - Caesar

Answer: (c)

12. Which is the longest national highway in India?

(a) NH-102
(b) NH-44
(c) NH-22
(d) NH-7

Answer: (b)

13. Which of the following Indian cities will co-host the FIH Men's Hockey World Cup 2023?

(a) Bhubaneswar
(b) Delhi
(c) Bangalore
(d) Patiala

Answer: (a)

14. Quit India movement was started in _____.

(a) 1936
(b) 1944
(c) 1938
(d) 1942

Answer: (d)

15. Name the only Female Muslim ruler of India.

(a) Khawla bint al-Azwar

(b) Khadīja

(c) Razia Sultana

(d) Nusaybah bint Ka'ab

Answer: (c)

16. If unemployment continues to be a long-term feature of a country, then it is called _____ unemployment.

(a) structural

(b) casual

(c) frictional

(d) chronic

Answer: (d)

17. Who was appointed as the head coach of the Indian men's cricket team by the BCCI in November 2021?

(a) Vinod Kambli

(b) Kapil Dev

(c) Sunil Gavaskar

(d) Rahul Dravid

Answer: (d)

18. Which of the following statements regarding sea[illegible]nal unemployment is CORRECT?

(a) It happens when people are not abl[illegible]s during some months of the year.

(b) It happens mainly in urban areas.

(c) If a field requires 4 people, and 7 are employed, then 3 people are seasonally unemployed.

(d) People who do not depend upon agriculture usually face such kind of unemployment.

Answer: (a)

19. Nita is telling her friend about the smallest planet of our solar system. Which of the following planets is she talking about?

(a) Earth

(b) Mars

(c) Mercury

(d) Venus

Answer: (c)

20. Which of the following is a dance form of Maharashtra?

(a) Bhangra

(b) Jhumar

(c) Kathak

(d) Lavani

Answer: (d)

21. In a freestanding temple, the mountain-like spire, which can take the shape of a pyramidal tower is called _____.

(a) vimana
(b) garbhagriha
(c) mandapa
(d) vahan

Answer: (a)

22. Which of the following cell organelles are NOT present in animal cell?

(a) Ribosomes
(b) Plastids
(c) Lysosomes
(d) Mitochondria

Answer: (b)

23. Definition of 'Money Bills' is given in which of the following Articles of the Indian Constitution?

(a) Article 128
(b) Article 110
(c) Article 139
(d) Article 115

Answer: (b)

24. In October 2021, the Ministry of Civil Aviation lau ed a scheme which will integrate cargo-related infrastructure in airports of hilly, tribal, and r .h-east regions. Name the scheme launched by the Ministry of Civil Aviation.

(a) Krishi Udan 1.0
(b) Regional Connectivity Scheme
(c) Krishi Udan 2.0
(d) SAMBHAV

Answer: (c)

25. Which of the following diseases is caused by the deficiency of Vitamin A?

(a) Night blindness
(b) Scurvy
(c) Marasmus
(d) Kwashiorkor

Answer: (a)

Answer key

Answer key as marked in the Staff Selection Commission's response sheet. "—" means the sheet did not show it clearly.

General English

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

General Intelligence and Reasoning

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

Numerical Aptitude

1	**(c)**	2	**(b)**	4	**(d)**	5	**(b)**	6	**(a)**	7	**(b)**
9	**(b)**	11	**(b)**	13	**(d)**	15	**(c)**	16	**(d)**	17	**(c)**
19	**(c)**	21	**(c)**	22	**(c)**	24	**(c)**				

General Awareness

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