PREVIOUS YEAR PAPER

SSC MTS 2023 — 6 September 2023, Shift 1

SSC MTS & Havaldar · 6 September 2023 · 9:00 AM - 11:00 AM

81 of the paper's 90 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 6 September 2023, 9:00 AM - 11:00 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-2023-6-sep-shift-1/

Numerical and Mathematical Ability

2.

Four books and eight pens were bought for ₹260. If the average price of a book is ₹35, then the average price of a pen would be:

(a) ₹31

(b) ₹5

(c) ₹15

(d) ₹10

Answer: (c)

4.

X can type 8 pages in 3 minutes. Y can type 3 pages in 5 minutes. Working together, how many pages can they type in 15 minutes?

(a) 42

(b) 40

(c) 46

(d) 49

Answer: (d)

5. The average weight of 20 students of a class was 30.5 kg. After 6 new students joined the class, its average weight increased by 2 kg. Find the average weight of the 6 new students who joined the class (rounded off to one decimal place).

(a) 30.5 kg

(b) 32.5 kg

(c) 39.2 kg

(d) 38.5 kg

Answer: (c)

6.

A batsman makes 96 runs in the 13th innings and thus his average increases by 3. Find his average after 13 innings.

(a)

65

(b)

50

(c)

70

(d)

60

Answer: (d)

7.

Surjeet alone can finish an assignment in 8 days and Manjeet alone can finis same assignment in 6 days. Surjeet and Manjeet decided to do this assignment by working on alterna days, st with Surjeet. In how many days will the assignment be finished?

(a)

7 days

(b)

8.5 days

(c)

8 days

(d)

7.5 days

Answer: (a)

8.

Two numbers are in the ratio of 2 : 5. Their LCM is 80. Find the numbers.

(a)

18 , 38

(b)

14 , 36

(c)

16 , 40

(d)

16 , 38

Answer: (c)

10.

If the sides of a triangle are in the ratio 3 : 4 : 5 and its perimeter is 24 m, then find the area of the triangle.

(a)

$32\ m^2$

(b)

$37\ m^2$

(c)

$16\ m^2$

(d)

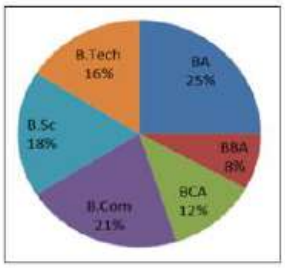
$24\ m^2$

Answer: (d)

11.

The pie chart shows the percentage of students studying different courses in a college.

The ratio between the number of students studying in BCA and B.sc, if the total number of students is 1200, is:



(a)

14 : 27

(b)

32 : 63

(c)

7 : 9

(d)

2 : 3

Answer: (d)

12.

Simplify the following expression.

$45 - 22 \div 2 + 12 + 70 \div 35 + 0.4 \div \quad 1.5 \div 3 + 1$

(a)

50

(b)

50.5

(c)

48.5

(d)

54.5

Answer: (a)

13.

Find the simple interest (in ₹) on ₹5,400 for 7 years at 4% per annum.

(a)

1,512

(b)

1,230

(c)

1,380

(d)

1,172

Answer: (a)

14.

What is the length of the longest pole that can be placed in an indoor stadium 24 m long, 18 m wide and 16 m high?

(a)

38 m

(b)

34 m

(c)

42 m

(d)

36 m

Answer: (b)

15.

Study the given table and answer the question that follows.

The table shows the centre and post-wise number of candidates.

Centre	Officer	Clerk	Supervisor	Field Officer
Mumbai	12000	18000	8000	200
Chennai	8000	10000	6000	100
Hyderabad	10000	12000	7000	150
Bengaluru	9000	6000	5000	80
Kolkata	14000	18000	6500	120

Which centre has the highest number of candidates?

(a)

Mumbai

(b)

Kolkata

(c)

Chennai

(d)

Hyderabad

Answer: (b)

16.

A thief is spotted by a policeman from a distance of 108 m. The thief starts running and the policeman chases him. If the speed of the thief and policeman are 21 km/h and 23 km/h, respectively, then how far will the thief have to run (in m) before he is overtaken by the policeman?

(a)

2534

(b)

3121

(c)

1216

(d)

1134

Answer: (d)

17.

What is the difference between the compound interest, interest compounded half yearly on ₹72,000 for 1.5 years at 10% per annum and its simple interest for 3 years at 5% per annum?

(a)

₹559

(b)

₹549

(c)

₹540

(d)

₹449

Answer: (b)

19.

A spends 20% of the daily income. If the expenditure is ₹250, then the daily income is:

(a)

₹800

(b)

₹1,250

(c)

₹2,500

(d)

₹1,500

Answer: (b)

20.

By selling a book at some price, Ankita gains 10%. If the book is sold at twice the price, then what will be the gain percentage for Ankita?

(a)

140%

(b)

100%

(c)

120%

(d)

125%

Answer: (c)

Reasoning Ability and Problem Solving

2.

What will come in the place of '?' in the following equation, if '+' and '–' are interchanged and '×' and '÷' are interchanged?
$111 \times 3 - 13 \div 3 + 26 = ?$

(a)
50

(b)
70

(c)
40

(d)
60

Answer: (a)

3.

What should come in place of '?' in the given series?

24 103 498 2473 12348 ?

(a)
60983

(b)
63487

(c)
62457

(d)
61723

Answer: (d)

5.

What should come in place of ? in the given series based on the English alphabetical order?

LPA, PSY, TVW, XYU, ?

(a)
CBR

(b)
BBS

(c)
CDS

(d)
DCR

Answer: (b)

6.

Read the given statement(s) 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 statement(s).
Statements: All buildings are chalks. No chalk is a toffee.
Conclusions:
(I) No building is a toffee.
(II) All chalks are buildings.

(a)
Both conclusions (I) and (II) are follows.

(b)
Only conclusion (I) is follows.

(c)
Neither conclusion (I) nor (II) is follows.

(d)
Only conclusion (II) is follows.

Answer: (b)

7.

In a certain code language, 'NAME' is coded as '2473' and 'MEND' is coded as '7642'. What is the code for 'D' in the given code language?

(a)
4

(b)
6

(c)
7

(d)
2

Answer: (b)

8.

If 4 November 2021 is a Thursday, then what will be the day of the week on 13 May 2023?

(a)

Monday

(b)

Sunday

(c)

Friday

(d)

Saturday

Answer: (d)

9.

8 is related to 40 following a certain logic. Following the same logic, 3 is related to 15. To which of the following is 52 related to, following the same logic?

(a)

261

(b)

262

(c)

260

(d)

263

Answer: (c)

10.

In a certain code language, 'CHORAL' is coded as 'OHCLAR' and 'FOREGO' is coded as 'ROFOGE'. What is the code for 'GALLEY' in the given code language?

(a)

GYALLE

(b)

ELLAGY

(c)

LAGYEL

(d)

YELLAG

Answer: (c)

11.

What should come in place of ? in the given series?

64 61 55 46 34 ?

(a)

19

(b)

24

(c)

15

(d)

21

Answer: (a)

12.

If 'I' stands for '+', 'J' stands for '×', 'K' stands for '÷' and 'L' stands for '-', what will come in place of the question mark (?) in the following equation?
105 L (72 K 9) I 43 L (9 J 4) = ?

(a)

104

(b)

114

(c)

106

(d)

126

Answer: (a)

13.

E, F, G, H, I and J are sitting around a circular table facing the center. J sits immediate left of I. G sits second to the right of I. E sits second to the right of G. H sits second to the left of F.
Who sits third to the right of E?

(a)

F

(b)

H

(c)

I

(d)

J

Answer: (b)

14.

What should come in place of '?' in the given series?

77 754 ? 75224 752224 7522224 75222224

(a)

7544

(b)

7254

(c)

7425

(d)

7524

Answer: (d)

15.

Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically follow/s from the given statements.

Statements: All cakes are biscuits. Some biscuits are tarts. All tarts are puddings.

Conclusion I: Some biscuits are cakes.

Conclusion II: Some puddings are biscuits.

(a)

Neither conclusion (I) nor (II) is follov

(b)

Both conclusions (I) and (II) are follow.

(c)

Only conclusion (I) is follow.

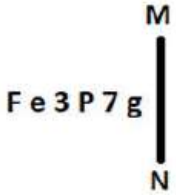
(d)

Only conclusion (II) is follow.

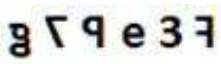
Answer: (b)

16.

Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



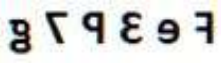
(a)



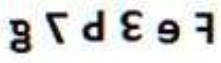
(b)



(c)



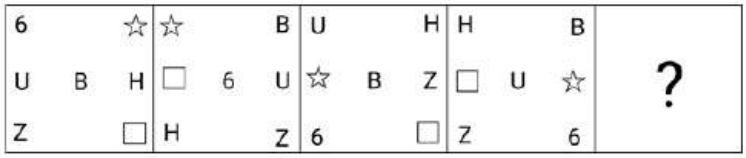
(d)



Answer: (c)

17.

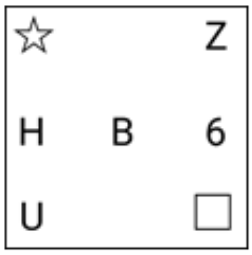
Which figure should replace the question mark (?) if the following figure series were to be continued?



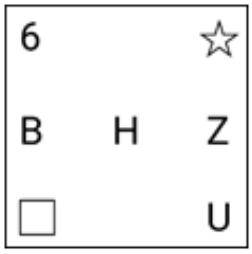
(a)



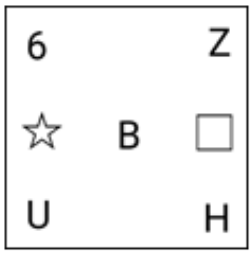
(b)



(c)



(d)



Answer: (b)

18.

What should come in place of ? in the given series based on the English alphabetical order?

UDM, XGP, AJS, DMV, ?

(a)

GPY

(b)

FPX

(c)

EOX

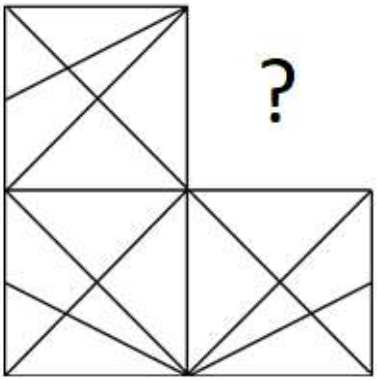
(d)

FOY

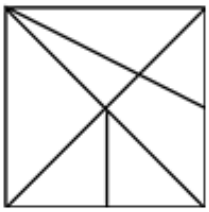
Answer: (a)

19.

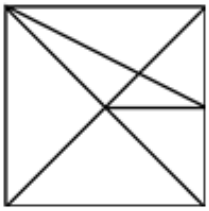
Identify the figure that completes the pattern (rotation is NOT allowed).



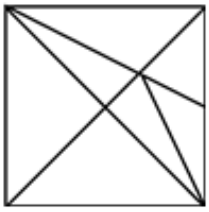
(a)



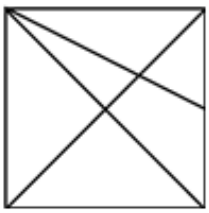
(b)



(c)



(d)



Answer: (d)

20.

What should come in place of ? in the given series based on the English alphabetical order?

TOY, UQB, VSE, WUH, ?

(a)
YVJ

(b)
ZWI

(c)
YUI

(d)
XWK

Answer: (d)

General Awareness

2. The stretch between Mumbai to Goa of western coast of India is known as _____.

(a) Coromandel coast
(b) Konkan coast
(c) Malabar Coast
(d) Kannada Plain

Answer: (b)

3. Which of the following autobiographies is NOT correctly matched with the concerned cricketer?

(a) Playing it My Way – VVS Laxman
(b) The Test of My Life: From Cricket to Cancer and Back – Yuvraj Singh
(c) Straight from the Heart – Kapil Dev
(d) Cricket Delightful – Mushtaq Ali

Answer: (a)

4. What does El Niño refer to?

(a) Hot water current
(b) Pressure water current
(c) High air pressure
(d) Low air pressure

Answer: (a)

5. Where was the 13th Hockey India senior women's national hockey championship held?

(a) Andhra Pradesh
(b) New Delhi
(c) Punjab
(d) Karnataka

Answer: (a)

6. Which Article of the Constitution of India provides for a Council of Ministers with the Prime Minister at the head to aid and advice the President in the exercise of the President's functions?

(a) Article 77

(b) Article 74

(c) Article 71

(d) Article 72

Answer: (b)

7. Which of the following is a key objective of Micro Finance Institutions in India?

(a) Providing loans exclusively to women entrepreneurs

(b) Encouraging large-scale industrialisation

(c) Maximising profits for shareholders

(d) Promoting financial inclusion and poverty alleviation

Answer: (d)

8. _____ is one of the most important festivals of Kamakhya temple of Guwahati. It is held every year during the monsoon (mid-June) season, when the temple is closed for three days for tantric rites.

(a) Ambubachi

(b) Bihu

(c) Baishagu

(d) Me-Dum-Me-Phi

Answer: (a)

9. In which city is the Kamakhya temple situated?

(a) Dehradun

(b) Bhopal

(c) Guwahati

(d) Indore

Answer: (c)

10. Which of the following statements best defines a Micro Finance Institution (MFI)?

(a) MFIs are investment firms that cater exclusively to high-net-worth individuals.

(b) MFIs are non-profit organisations that provide financial services to low-income individuals and small businesses.

(c) MFIs are banks that provide loans only to large corporations.

(d) MFIs are government agencies that regulate the microfinance sector.

Answer: (b)

11. Mumbai Indians defeated which team to win Women’s Premier League in March, 2023?

(a) UP Warriors

(b) Royal Challengers

(c) Delhi Capitals

(d) Gujarat Giants

Answer: (c)

12. The Songi Mukhawate dance of _____ celebrates the victory of truth over falsehood. The name of the dance is derived from the two lion masks worn by two dancers who represent Narasimha, an aspect of Lord Vishnu.

(a) Madhya Pradesh

(b) Jharkhand

(c) Maharashtra

(d) Gujarat

Answer: (c)

13.

Who among the following is best known for creating a fusion style of dance by adapting European theatrical techniques to Indian classical dance?

(a)

Yamini Krishnamurthy

(b)

Uday Shankar

(c)

Gopi Krishna

(d)

Sonal Mansingh

Answer: (b)

14. Where was the Hindustan Socialist Republican Association founded in 1928?

(a) Kanpur

(b) Amritsar

(c) Lucknow

(d) Delhi

Answer: (d)

15. Which process is sometimes called "reduction division" because it reduces the number of chromosomes to half the normal number to form sperm and eggs?

(a) Amitosis

(b) Meiosis

(c) Cytokinesis

(d) Karyokinesis

Answer: (b)

16. Which chemical element with atomic number 35 has a dark reddish-brown liquid with a burning pungent odour?

(a) Tennessine
(b) Chlorine
(c) Astatine
(d) Bromine

Answer: (d)

17. In which year did Pakistan win the Kabaddi (Circle style) World Cup?

(a) 2016
(b) 2014
(c) 2020
(d) 2013

Answer: (c)

18. The North–South corridor, which is a part of the Golden Quadrilateral super highways, links which two cities of India from the following?

(a) Delhi and Chennai
(b) Leh and Chennai
(c) Jammu and Kanyakumari
(d) Srinagar and Kanyakumari

Answer: (d)

19. For which community was a journal Rast Goftar ted for the purpose of socialreligious reforms?

(a) Sikhs
(b) Muslim
(c) Parsis
(d) Hindu

Answer: (c)

20. 26 January was selected as the date of the inauguration of the Constitution because on the same date in 1930, the Indian National Congress had revealed _____.

(a) Quit India Movement
(b) Purna Swaraj Movement
(c) Namak Satyagraha
(d) Khilafat Movement

Answer: (b)

21. What is the name of the scheme launched by Uttar Pradesh government to boost milk production?

(a) Nand Baba Milk Mission
(b) Gokul Milk Mission
(c) Krishna Balram Milk Mission
(d) Gua Ras Mission

Answer: (a)

22. What is the source of Directive Principles of State Policy?

(a) The instrument of instructions from GOI Act 1919
(b) The instrument of instructions from GOI Act 1935
(c) The instrument of instructions from GOI Act 1909
(d) The instrument of instructions from GOI Act 1947

Answer: (b)

23. How many classical dance forms does the Sangeet Natak Akademi in India officially recognise, as of August 2021?

(a) 9
(b) 6
(c) 7
(d) 8

Answer: (d)

24. According to the Human Development Report 2[illegible]-22, what is the rank of India among 191 countries?

(a) 117
(b) 180
(c) 148
(d) 132

Answer: (d)

English Language and Comprehension

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

This is the first time / I ate such / a tasty cake.

(a) I ate such
(b) This is the first time
(c) No error
(d) a tasty cake

Answer: (a)

3. Select the option that can be used as a one-word substitute for the given group of words. A lover of books

(a) Philosopher

(b) Librarian

(c) Teacher

(d) Bibliophile

Answer: (d)

4. Select the most appropriate option to fill in the blank. Tom waited until _____ to start working on his term paper but managed to finish it just in time.

(a) the twelfth hour

(b) the thirteenth hour

(c) the tenth hour

(d) the eleventh hour

Answer: (d)

5. Select the most appropriate synonym of the given word. Cordial

(a) Unfriendly

(b) Friendly

(c) Brave

(d) Aromatic

Answer: (b)

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

Bigger fish to fry

(a) To barely get something done

(b) Having something more important to take care of

(c) Having work more than one's capacity

(d) To be similar to one's parents in some way

Answer: (b)

7. There is a spelling error in the given sentence. Select the option that contains the INCORRECTLY spelt word. The hungery goblin scratched the grammar book with a feather.

(a) hungery

(b) scratched

(c) feather

(d) grammar

Answer: (a)

8. Select the most appropriate option to fill in the blank. The rusty door made a _____ screeching noise.

(a) low
(b) soft
(c) harsh
(d) smooth

Answer: (c)

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

The tone of his voice seemed to _____ that he knew more than he was letting on.

(a) incise
(b) intent
(c) inculcate
(d) imply

Answer: (d)

10. Select the most appropriate ANTONYM of the given word. Enormous

(a) Tiny
(b) Inapposite
(c) Irrelevant
(d) Gigantic

Answer: (a)

11. There is a spelling error in the given sentence. Select the option that contains the INCORRECTLY spelt word. The questionnaire appeared to be poorly designed.

(a) designed
(b) questionnaire
(c) misrably
(d) appeared

Answer: (c)

12. Select the most appropriate option to fill in the blank. COVID-19 _____ structural weaknesses in health systems worldwide and negatively impacted individuals, societies, and economies.

(a) concealed
(b) laid
(c) hit
(d) revealed

Answer: (d)

13. Select the most appropriate option that can substitute the underlined segment in the given sentence.

She will handling the baby as tenderly as possible.

(a) wills handle
(b) shall handles
(c) will handle
(d) will handled

Answer: (c)

14. Parts of the following sentence have been given as options. Select the option that contains an error.

A old woman suddenly laughed, sounding just like an amused hen.

(a) like an amused hen
(b) sounding just
(c) A old woman
(d) suddenly laughed

Answer: (c)

15. Select the most appropriate ANTONYM of the given word. Annoy

(a) Gratify
(b) Vex
(c) Irritate
(d) Thrill

Answer: (a)

16. Four words of the following sentence have been underlined and given as options. Select the option that contains a spelling error. All life depends on a healthy planet, but the interwoven systems of atmosphere, oceans, watercourses, land, ice cover and biosphere, which form the natural environment, are threatned by human activities.

(a) interwoven
(b) threatned
(c) biosphere
(d) watercourses

Answer: (b)

17. Select the most appropriate meaning of the given idiom. A storm in a teacup

(a) Much excitement over something trivial
(b) A signal for upcoming storm
(c) Easy money
(d) Suffering in silence

Answer: (a)

18. Select the most appropriate option to fill in the blank. Varun has to _____ his studies for the sake of his ill father.

(a) sacrifice

(b) imitate

(c) reverse

(d) applaud

Answer: (a)

19. Parts of the following sentence have been given as options. Select the option that contains an error. Vikram is very stronger than I am.

(a) very stronger

(b) I am

(c) Vikram is

(d) than

Answer: (a)

20. Select the most appropriate option that can substitute the underlined segment in the given sentence.

You are always try with jump over the wall.

(a) trying in jumping

(b) try to jump

(c) trying to jump

(d) tried with jump

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 the blanks. Kasturi went to the garden looking for her mother. Her dog Rex was waiting (1)____ her. Kasturi picked up a stick and threw it. Rex (2)_____ the stick and brought it back. Kasturi ran (3)___ the house. Rex chased her. Kasturi ran through the garden and Rex (4)____ her. Mother yelled at both of them. She told them to stay (5)_____ of the garden and play somewhere else. Kasturi apologised to her mother. She went for a bike ride while Rex ran next to the bike.

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

(a) with

(b) by

(c) to

(d) for

Answer: (d)

22. Select the most appropriate option to fill in blank number 2.
    (a) chases
    (b) throws
    (c) threw
    (d) chased
    Answer: (d)

23. Select the most appropriate option to fill in blank number 3.
    (a) in
    (b) around
    (c) round
    (d) about
    Answer: (b)

24. Select the most appropriate option to fill in blank number 4.
    (a) obey
    (b) listen
    (c) followed
    (d) came
    Answer: (c)

25. Select the most appropriate option to fill in blank number 5.
    (a) of
    (b) in
    (c) from
    (d) out
    Answer: (d)

Answer key

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

Numerical and Mathematical Ability

2	**(c)**	4	**(d)**	5	**(c)**	6	**(d)**	7	**(a)**	8	**(c)**
10	**(d)**	11	**(d)**	12	**(a)**	13	**(a)**	14	**(b)**	15	**(b)**
16	**(d)**	17	**(b)**	19	**(b)**	20	**(c)**				

Reasoning Ability and Problem Solving

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

General Awareness

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

English Language and Comprehension

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