PREVIOUS YEAR PAPER

SSC MTS 2023 — 8 September 2023, Shift 3

SSC MTS & Havaldar · 8 September 2023 · 4:00 PM - 6:00 PM

79 of the paper's 90 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 8 September 2023, 4:00 PM - 6:00 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-2023-8-sep-shift-3/

Numerical and Mathematical Ability

2.

Rima covers a certain distance by car driving at a speed of 59 km/h and she returns to the starting point riding on a bike with a speed of 43 km/h. Find the average speed (in km/h) for the whole journey. (Rounded off to 2 decimal places)

(a)

52.25

(b)

49.75

(c)

42.00

(d)

45.37

Answer: (b)

3.

If 7 men working 8 hours a day for 5 days can complete a work, then how many men are required to complete the same work if they work 10 hours a day for 7 days?

(a)

6

(b)

4

(c)

3

(d)

5

Answer: (b)

4.

The LCM of $\frac{1}{6}, \frac{5}{27}, \frac{4}{15}, \frac{8}{3}$ is:

(a)

$\frac{40}{3}$

(b)

$\frac{3}{28}$

(c)

$\frac{5}{28}$

(d)

$\frac{40}{5}$

Answer: (a)

5.

The mean proportional between 0.8 and 7.2 is:

(a)

2.4

(b)

3.4

(c)

4.2

(d)

1.2

Answer: (a)

6.

The value of $\frac{3 \div 3 \times 2 - 6 \div 3 + 7}{5 \div 5 \times 6 \div 6 + 3 + 3}$ is equal to:

(a)

1

(b)

$\frac{3}{2}$

(c)

$1\frac{3}{2}$

(d)

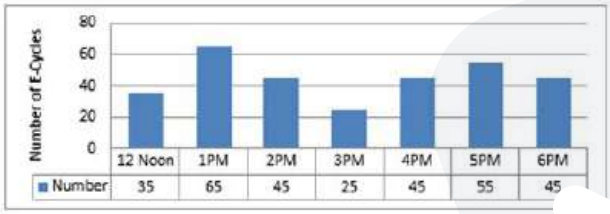
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Answer: (a)

7.

The bar diagram represents the number of E- Cycles parking at a metro station from 12:00 P.M. to 6:00 P.M.

How many times the number of E- Cycles parked is more than average?



(a)

4

(b)

5

(c)

2

(d)

3

Answer: (c)

10.

A boy covers a certain distance between his house and school on a cycle. Having an average speed of 10 km/h, he is late by 10 min. However, with an average speed of 15 km/h, he reaches the school in 5 min. earlier. Find the distance (in km) between his house and school.

(a)

8.5

(b)

8

(c)

7

(d)

7.5

Answer: (d)

11.

A motorboat can row 12 km/h in still water. If the speed of the current is 2 km/h, it takes 1.5 hours more in covering some distance upstream than it does downstream for covering the same distance. The one-side distance is:

(a)

52.5 km

(b)

50 km

(c)

51.5 km

(d)

53 km

Answer: (a)

13.

If the ratio of the principal and the simple interest for 5 years is 10 : 7, then the rate of interest per annum is:

(a)

18%

(b)

16%

(c)

12%

(d)

14%

Answer: (d)

14.

The table below shows the earning of different schools (in ₹ crores) in different years. Study the table carefully and answer the question that follows.

School/years	2018	2019	2020	2021	2022
P	50	45	49	56	57
Q	46	48	50	55	62
R	70	65	63	68	63
S	38	47	56	60	69
T	48	37	52	69	77

Find the ratio between the total earnings of schools P and R taken together in year 2020 to the total earnings of schools Q, S and T taken together in the year 2022?

(a)

$7 : 13$

(b)

$7 : 19$

(c)

$12 : 7$

(d)

$12 : 13$

Answer: (a)

16. The percentage profit earned by selling an articl[illegible]r ₹955 is equal to the percentage loss incurred by selling the same article for ₹84[illegible] At wh[illegible]price should the article be sold to make a 6% profit?

(a) ₹955

(b) ₹954

(c) ₹925

(d) ₹1,014

Answer: (b)

17.

Find the area of a triangle whose base is 7 cm and corresponding height is 82 cm.

(a)

$191\ cm^2$

(b)

$574\ cm^2$

(c)

$143\ cm^2$

(d)

$287\ cm^2$

Answer: (d)

18.

The price of a commodity increased from ₹200 to ₹250. What is the percentage increase in price?

(a)

27%

(b)

20%

(c)

25%

(d)

22%

Answer: (c)

20.

Ravi sells a laptop bag to Reeta for ₹1,920 and he sells another similar laptop bag to Vinay for ₹1,280. The percentage profit earned in selling the laptop bag to Reeta is equal to the percentage loss in selling the laptop bag to Vinay. At what price (in ₹) should Ravi sell the laptop bag to make a profit of 25%?

(a)

1,650

(b)

1,600

(c)

1,800

(d)

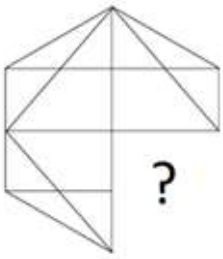
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Answer: (d)

Reasoning Ability and Problem Solving

1.

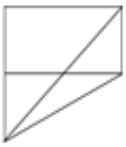
Identify the figure that completes the pattern (rotation is NOT allowed).



(a)



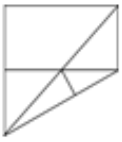
(b)



(c)



(d)



Answer: (b)

2.

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

HPS, JRU, LTW, NVY, ?

(a)

PXA

(b)

MXB

(c)

NYB

(d)

NZA

Answer: (a)

3.

What will come in place of '?' in the following equation, if '+' and '×' are interchanged and '−' and '÷' are interchanged?

$16 - 4 + 13 \times 5 \div 2 = ?$

(a)

36

(b)

24

(c)

48

(d)

55

Answer: (d)

4.

In a certain code language, 'PORTAL' is coded as 'RQTVCN' and 'QUIET' is coded as 'SWKGV'. What is the code for 'SIMPLE' in the given code language?

(a)

VKNRMJ

(b)

UKORNG

(c)

TJNSMH

(d)

TNOSMI

Answer: (b)

6.

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

9 26 77 230 689 ?

(a)
2035

(b)
2112

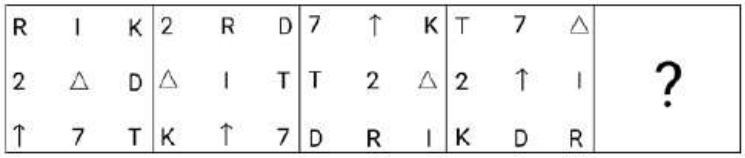
(c)
2094

(d)
2066

Answer: (d)

7.

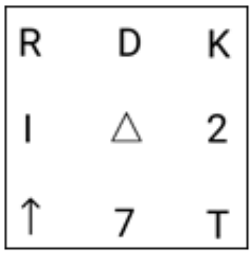
Which figure should replace the question mark (?) if the following figure series were to be continued?



(a)



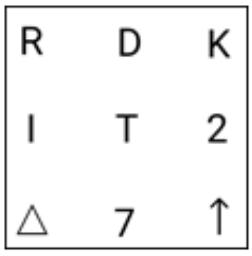
(b)



(c)



(d)



Answer: (d)

8.

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 stamps are keys. All keys are black. All black are grey.

Conclusion I: All keys are stamps.

Conclusion II: Some keys are black.

(a)

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

(b)

Only conclusion (II) is follow.

(c)

Only conclusion (I) is follow.

(d)

Neither conclusion (I) nor (II) is follow.

Answer: (b)

9.

What will come in the place of '?' in the following equation, if '+' and '–' are interchanged and '×' and '÷' are interchanged?

$17 \div 9 - 39 + 225 \times 15 = ?$

(a)

167

(b)

177

(c)

157

(d)

187

Answer: (b)

10.

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

1 14 79 404 2029 ?

(a)
10154

(b)
9848

(c)
9812

(d)
10132

Answer: (a)

12.

The position of how many letters will remain unchanged if each of the letter in the word 'ABSOLUTE' is arranged in alphabetical order?

(a)
Five

(b)
Two

(c)
Three

(d)
Four

Answer: (c)

13. Seven people, B, N, M, O, P, Y and S are sitting in a straight line, facing south. Only two people sit between P and S. N is the immediate neighbour of S and M. Only one person sits to the right of P. N sits second to the left of O. Y is an immediate neighbour of P.

Total how many people sit between P and M?

(a) Two

(b) Four

(c) Three

(d) One

Answer: (b)

14.

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 threads are soft. Some soft are fruit. All fruit is yellow.

Conclusion I: Some thread is fruit.

Conclusion II: Some fruit is yellow.

(a)

Neither conclusion (I) nor (II) is follow.

(b)

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

(c)

Only conclusion (II) is follow.

(d)

Only conclusion (I) is follow.

Answer: (c)

15.

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

21 24 29 36 47 ?

(a)

64

(b)

60

(c)

56

(d)

66

Answer: (b)

16.

Find out the correct alternative that when filled in the blanks in the same sequence will make the series logically complete.

WA_XV_FX_EFXTGF_SI_X

(a)

MNVKD

(b)

FCUXF

(c)

FVYNS

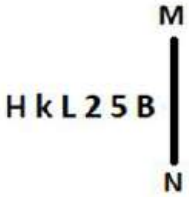
(d)

HKVHU

Answer: (b)

17.

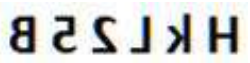
Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



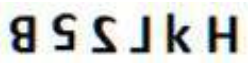
(a)



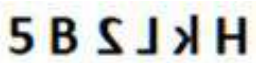
(b)



(c)



(d)



Answer: (b)

19.

Select the word-pair that best represents a similar relationship to the one expressed in the pair of words given below.

(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word)

Scissors : Cloth

(a)

Pen : Ink

(b)

Razor : Beard

(c)

Nail : Hammer

(d)

Furnace : Smoke

Answer: (b)

20.

Select the combination of letters that when sequentially placed in the blanks of the given series will make it logically complete.

HLO_ J_OC LL_E _LOG P_OI

(a)

AONEL

(b)

ALONL

(c)

BGHPN

(d)

BLOEN

Answer: (b)

General Awareness

1. What is the maximum time gap between two sessions of the State Legislature?

(a) Three months

(b) Two months

(c) Six months

(d) One year

Answer: (c)

2. In 1951, the first Asian Games was held in which city?

(a) Jaipur

(b) Pune

(c) Mumbai

(d) New Delhi

Answer: (d)

3. What is a government budget?

(a) A report on the economic growth of a country.

(b) A plan for managing personal finances.

(c) A financial statement of a government's expected revenue and expenditure for a specific period.

(d) A document outlining foreign policy goals.

Answer: (c)

5.

Which of the following oceans extends into the Mediterranean Sea?

(a)

Indian Ocean

(b)

Pacific Ocean

(c)

Atlantic Ocean

(d)

Arctic Ocean

Answer: (c)

6. What is the meaning of the term ‘Collateral’ in banking?

(a) An investment portfolio

(b) A type of credit card

(c) A form of digital payment

(d) An asset pledged as security for a loan

Answer: (d)

7. The word ‘kathak’ is derived from which of the following words?

(a) Story

(b) Narrator

(c) Dance steps

(d) Bells

Answer: (a)

8. Which of the following autobiographies was written by Dr. APJ Abdul Kalam, the former president of India?

(a) One Life is Not Enough
(b) Waiting for a Visa
(c) Atmakatha
(d) Wings of Fire

Answer: (d)

9. Which Indian musician got the prestigious Academy Award?

(a) AR Rahman
(b) Anu Malik
(c) Naushad
(d) Bappi Lahiri

Answer: (a)

10. In relation to the state of Tamil Nadu, the Constitution (Scheduled Tribes) Order (Second Amendment) Act, 2022 will include the _____ and Kurivikkaran communities in the list of Scheduled Tribes in Tamil Nadu.

(a) Narikoravan
(b) Irular
(c) Kadar
(d) Kammara

Answer: (a)

11. Which antibiotic is considered the first r[illegible]cle [illegible]g, used to treat throat infections, meningitis, syphilis and other bacterial infections?

(a) Aciclovir
(b) Nifuratel
(c) Penicillin
(d) Metronidazole

Answer: (c)

12. Which of the following is the Fundamental Law of any country which sets out the framework and the principal functions of various organs of the government?

(a) Customs
(b) International Law
(c) Constitution
(d) Ordinance

Answer: (c)

13.

Who was the singer of the famous song 'Mere Desh Ki Dharti Sona Ugle' from the film 'Upkar' (1967)?

(a)

KJ Yesudas

(b)

Suresh Wadkar

(c)

Manna Dey

(d)

Mahendra Kapoor

Answer: (d)

15. Jyothi Yarraji created a new national record in 2023 in which of the following sports?

(a) Indoor hurdling

(b) High jump

(c) Shot put

(d) Long jump

Answer: (a)

16. Which physicist's experiment during a lecture in 18 showed the connection between electricity and magnetism?

(a) John Cockcroft

(b) William Gilbert

(c) Heinrich Hertz

(d) Hans Christian Oersted

Answer: (d)

17. In the performance of _____ dance, on one side raasa dances are performed by women, whereas on the opposite side instrumentalist play the pung choloms (drums) and the karataala (cymbals).

(a) Kathakali

(b) Yakshagana

(c) Odissi

(d) Manipuri

Answer: (d)

18. Who among the following was the founder of the Khudai Khidmatgars, a powerful nonviolent movement among the Pathans of North-West Frontier Province?

(a) Khan Abdul Ghaffar Khan

(b) Abdul Qayyum Khan Kashmiri

(c) Mohammad Ali Jinnah

(d) Khan Abdul Jabbar Khan

Answer: (a)

19. In which year was the Vernacular Press Act passed?

(a) 1757 CE

(b) 1878 CE

(c) 1888 CE

(d) 1600 CE

Answer: (b)

20. Which state of India is associated with the famous thunderstorms 'Kaal Baisakhi'?

(a) West Bengal

(b) Karnataka

(c) Gujarat

(d) Haryana

Answer: (a)

21. According to Ministry of Commerce and Industry (2018-19), which state of India is the largest producer of Rubber?

(a) Maharashtra

(b) Gujarat

(c) Kerala

(d) Uttar Pradesh

Answer: (c)

22. In which year was the first Khelo India Winter Ga s held?

(a) 2022

(b) 2019

(c) 2021

(d) 2020

Answer: (d)

23. 'Losoong' festival, celebrated by the tribal community in _____, is usually the time when the farmers rejoice and celebrate their harvest.

(a) Sikkim

(b) Jharkhand

(c) Odisha

(d) West Bengal

Answer: (a)

24. According to the Human Development Index 2021, which group of neighbouring countries has ranked behind India?

(a) Maldives and Bhutan

(b) Pakistan and Afghanistan

(c) Bangladesh and China

(d) Sri Lanka and Bhutan

Answer: (b)

25. Which of the following statements is true about the Great Bath of the Indus Valley Civilisation?

(a) It was used for grain storage.

(b) It was used for farming.

(c) It was used as the water tank of the city.

(d) It was probably used for religious purpose.

Answer: (d)

English Language and Comprehension

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

France is a largest country.

(a) smaller

(b) larger

(c) smallest

(d) large

Answer: (d)

2. The following sentence has been split into four segments. Identify the segment that contains an error. Mr Sharma would have left / the station / by this time / tomorrow.

(a) tomorrow

(b) by this time

(c) the station

(d) Mr Sharma would have left

Answer: (d)

3. Select the most appropriate meaning of the underlined idiom in the following sentence.

"Do not turn a blind eye to all the mischief your child is up to", the teacher told the young parent.

(a) Close the door

(b) Take pride in

(c) Give rewards

(d) Pretend not to notice

Answer: (d)

4. Select the most appropriate option to fill in the blank. The mother _____ the chips because they were soggy.

(a) saved

(b) wasted

(c) discarded

(d) recovered

Answer: (c)

5. Identify the most appropriate meaning of the given word. Hope

(a) Caution

(b) Realism

(c) Cynicism

(d) Wish

Answer: (d)

6. Select the most appropriate meaning of the given idiom. Have egg on your face

(a) Defeat someone thoroughly

(b) To be made to look foolish or embarrassed

(c) Making a choice between two unpleasant choices

(d) Reveal a secret

Answer: (b)

7. The following sentence contains some errors. Select the option that correctly rectifies the error. The tiger was tranquiliized in the morning and keept in a cage to avoid disturbannces by human beings.

(a) The tiger was tranquilized in the morning and kept in a cage to avoiid disturbaences by human beings.

(b) The tiger was tranquilized in the morning and kept in a cage to avoid disturbances by human beings.

(c) The tiger was traanquilized in the morning and ,pt in a cage to avoid dissturbances by human beings.

(d) The tiger was tranquiliized in the morning ar .eept in a cage to avoid disturbances by human beings.

Answer: (b)

8. Select the most appropriate synonym of the bracketed word in the following sentence to fill in the blank. She's reading a _____(secrecy) novel and can't wait to find out who the killer is.

(a) crisis

(b) complication

(c) difficulty

(d) mystery

Answer: (d)

9. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

The viable of life / depends on a pair / of conflicting realities.

(a) depends on a pair

(b) No error

(c) The viable of life

(d) of conflicting realities

Answer: (c)

10. Parts of the following sentence have been given as options. Select the option that contains an error. I shall be playing for four hours.

(a) four hours
(b) I
(c) shall be playing
(d) for

Answer: (c)

11. Select the most appropriate meaning of the underlined segment in the given sentence. Our team is all on the same page when it comes to our goals for the upcoming project.

(a) Be confused
(b) Be in agreement
(c) Be unsure
(d) Be in conflict

Answer: (b)

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

(a) To suffer a defeat
(b) To fall from a height
(c) To remain calm
(d) To fall asleep

Answer: (a)

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

A person who avoids sensory pleasures and physical comforts

(a) Frugal
(b) Epicurean
(c) Bohemian
(d) Ascetic

Answer: (d)

14. Select the INCORRECTLY spelt word.

(a) Chivalrous
(b) Expose
(c) Conffess
(d) Convict

Answer: (c)

15. Select the option that can be used as a one-word substitute for the given group of words. A person living in solitude like a saint for religious practices.

(a) Hermit
(b) Cretin
(c) Heir
(d) Heretic

Answer: (a)

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

(a) Jealous
(b) Fierce
(c) Graceful
(d) Nervous

Answer: (c)

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

No sooner had the sun risen over the horizon when the birds began to chirp and the squirrels started to scamper around the park.

(a) when the birds begin
(b) than birds begin
(c) when birds began
(d) than the birds began

Answer: (d)

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

During the meeting, he went on a long and angry _____ about how the project was being mismanaged.

(a) shout
(b) whisper
(c) rant
(d) mutter

Answer: (c)

19. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. I had / a bad habit of / waking up / lately.

(a) lately
(b) waking up
(c) a bad habit of
(d) I had

Answer: (a)

20. Select the most appropriate option to fill in the blank. Chaitnya was _____ from the school due to his misappropriate behaviour.

(a) expelled
(b) xpelled
(c) expeled
(d) xpeled

Answer: (a)

Passage — for questions 21–25

> In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank. Once there was a king named Midas who was granted a (1)_____ by Dionysus, the god of wine. For his wish, Midas asked that whatever he (2)_____ would turn to gold. Despite Dionysus' efforts to prevent it, Midas pleaded that this was a fantastic wish, and so, it was bestowed. Excited about his newly-earned (3)_____, Midas started touching all kinds of things, turning each item into pure gold. But soon, Midas became (4)_____. As he picked up a piece of food, he found he couldn't eat it. It had turned to gold in his hand. Hungry, Midas groaned, "I'll starve! Perhaps this was not such an excellent wish after all!" Seeing his dismay, Midas' (5)_____ daughter threw her arms around him to comfort him, and she, too, turned to gold. "The golden touch is no blessing," Midas cried.

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

(a) slavery
(b) wish
(c) employment
(d) job

Answer: (b)

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

(a) next felt
(b) touched
(c) kept
(d) left

Answer: (b)

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

(a) legacies
(b) powers
(c) awards
(d) visuals

Answer: (b)

24. Select the most appropriate option to fill in blank number 4.
    (a) mad
    (b) hungry
    (c) tired
    (d) angry

    Answer: (b)

25. Select the most appropriate option to fill in blank number 5.
    (a) estranged
    (b) guarded
    (c) beloved
    (d) hated

    Answer: (c)

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	**(b)**	3	**(b)**	4	**(a)**	5	**(a)**	6	**(a)**	7	**(c)**
10	**(d)**	11	**(a)**	13	**(d)**	14	**(a)**	16	**(b)**	17	**(d)**
18	**(c)**	20	**(d)**								

Reasoning Ability and Problem Solving

1	**(b)**	2	**(a)**	3	**(d)**	4	**(b)**	6	**(d)**	7	**(d)**
8	**(b)**	9	**(b)**	10	**(a)**	12	**(c)**	13	**(b)**	14	**(c)**
15	**(b)**	16	**(b)**	17	**(b)**	19	**(b)**	20	**(b)**		

General Awareness

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

English Language and Comprehension

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