PREVIOUS YEAR PAPER

SSC MTS 2024 — 4 November 2024, Shift 1

SSC MTS & Havaldar · 4 November 2024 · 9:00 AM - 11:00 AM

70 of the paper's 90 questions · marks per question not printed on the response sheet

Left out of the original paper: 20 (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 4 November 2024, 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-2024-4-nov-shift-1/

Numerical and Mathematical Ability

1. Find the simple interest (in ₹) on ₹2000 as a sum borrowed at 8% per year rate of interest for 4 years.

(a) 680
(b) 580
(c) 600
(d) 640

Answer: (d)

2. The average of nine numbers is 6. When three new numbers are included, the average of the twelve numbers becomes 7.5. The average of three new numbers is:

(a) 12
(b) 12.5
(c) 11.5
(d) 8

Answer: (a)

3. How many seconds does Tiwari take to cover a distance of 600 m if he runs at a speed of 10 km/h?

(a) 212
(b) 200
(c) 216
(d) 205

Answer: (c)

5. A shopkeeper offered following four different discount schemes for buyers on an item.
A. Two successive discounts of 8%.
B. A discount of 11% followed by a discount of 5%.
C. Successive discounts of 13% and 3%
D. A discount of 16%. Which discount scheme should be opted for getting the item at minimum price?

(a) C
(b) B
(c) D
(d) A

Answer: (c)

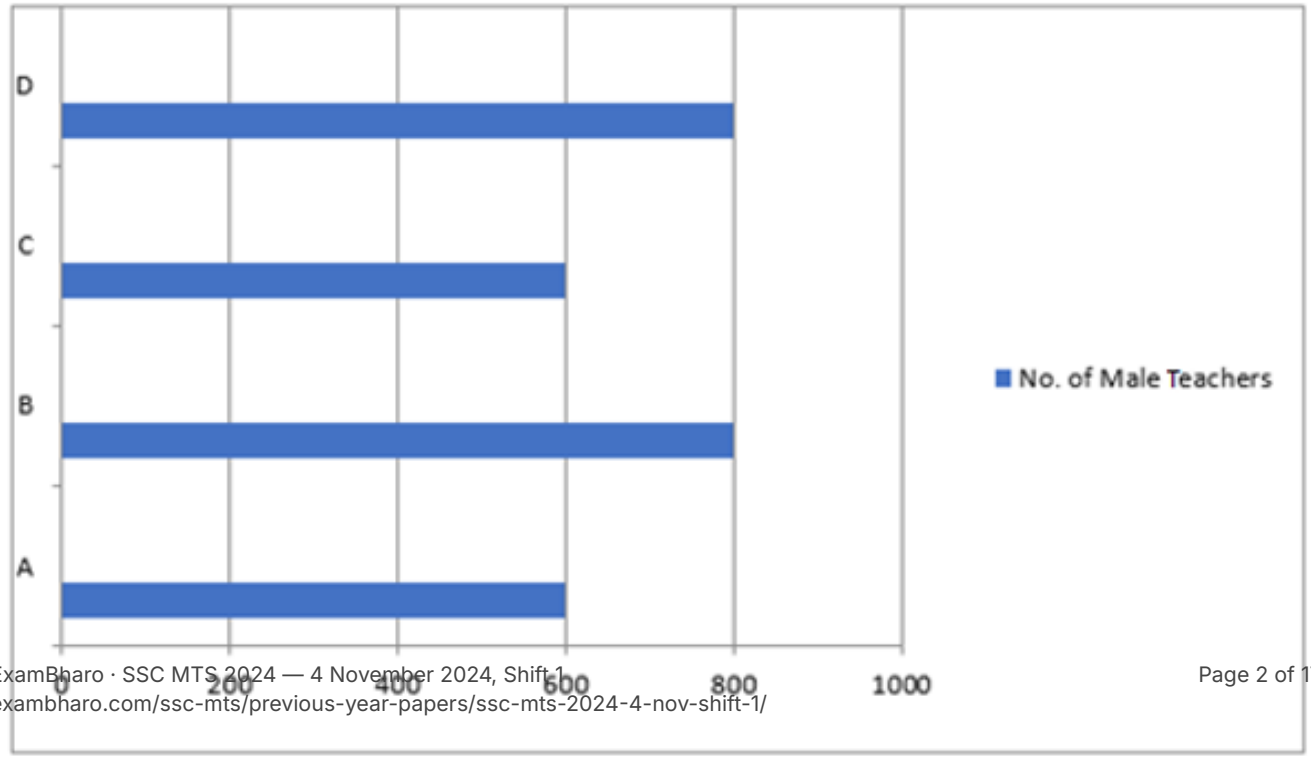
6.

The total number of teachers in 4 districts A, B, C and D of a state is 4500. The percentagewise distribution of teachers in the 4 districts is given by the following table.

District	Percentage of teachers
A	20%
B	25%
C	25%
D	30%

The number of males in each distr... ...ven by the following bar graph. X-axis denotes the number of male teachers in 4 districts, and Y-axis denotes the 4 districts. Study the graph carefully and answer the question that follows.

Male Teachers in 4 Districts



(a) 67.10%
(b) 60.71%
(c) 61.71%
(d) 50.71%

Q.7 The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 66 kg and 39 kg is: 1. 52

2. 51

3. 50

4. 49

Q.8 Find the simple interest (in ₹) on ₹3500 as a sum borrowed at 5% per year rate of interest for 4 years.

Answer: (b)

7. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 66 kg and 39 kg is:
(a) 52
(b) 51
(c) 50
(d) 49

Answer: (c)

9. Ramesh sold a watch to Rahul at a gain of [illegible]d Rahul sold it to Arun at a loss of 10%. If Arun paid ₹1,800 to Rahul, then for how much did Ramesh sell it to Rahul?
(a) ₹3,000
(b) ₹3,500
(c) ₹2,000
(d) ₹2,500

Answer: (c)

10. The salary of T in January, February and March is ₹15,000 per month. His salary in July, August, September, October, November and December is ₹30,000 per month. His average salary per month for the year is ₹27,000. What is his salary (in ₹) in April, May and June per month?
(a) 28000
(b) 31000
(c) 25000
(d) 33000

Answer: (d)

12. A person has to cover a distance of 8 km in 1 hour. If he covers one-fourth of the distance in one-third of the total time, then what should his speed (in km/h) be to cover the remaining distance in the remaining time so that the person reaches the destination exactly on time?

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

Answer: (c)

17. A shopkeeper claims that he sells rock salt at ₹23 per kg, which costs him ₹25 per kg. But he gives 800 g instead of 1,000 g. What is his percentage profit or loss?

(a) Loss of 3%
(b) Profit of 8%
(c) Profit of 15%
(d) Loss of 5%

Answer: (c)

19. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 67 kg and 35 kg is:

(a) 48.4
(b) 51.4
(c) 49.4
(d) 50.4

Answer: (c)

20. The ratio of the number of boys to that of girls in a school is 7 : 9. If the number of girls in the school is 189, then the number of boys in that school is:

(a) 126
(b) 147
(c) 105
(d) 168

Answer: (b)

Reasoning Ability and Problem Solving

4. According to a code language, 256 means ‘they are nice’, 637 means ‘we are rude’ and 358 means ‘rude and nice’. What is the code for ‘nice’ in the same code language?

(a) 5
(b) 8
(c) 7
(d) 3

Answer: (a)

5. WN 22 is related to AR 29 in a certain way. In the same way, MD 19 is related to QH 26. To which of the following is EV 35 related following the same logic?

(a) ZI 42

(b) DK 42

(c) IZ 42

(d) KD 42

Answer: (c)

6. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (7, 40, 9) (9,71, 10) (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.)

(a) (11, 106, 5)

(b) (5, 12, 18)

(c) (13, 150, 19)

(d) (8, 49, 12)

Answer: (c)

7. What will come in place of the question mark (?) in the following equation if '+' and '–' are interchanged and '×' and '÷' are interchanged? 56 – 14 × 7 ÷ 22 + 63 = ?

(a) 37

(b) 13

(c) 63

(d) 35

Answer: (a)

8. In a certain code language, 'eat your food' is written as 'wb hs lg' and 'food is tasty' is writtenas 'sw lj hs'. How is 'food' writtenin the given language?

(a) sw

(b) hs

(c) lg

(d) li

Answer: (b)

9. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

XDZ, THV, PLR, ?, HTJ

(a) LPO

(b) KPO

(c) LPN

(d) MPN

Answer: (c)

11. KGNI is related to LHOJ in a certain way based on the English alphabetical order. In the same way, GCJE is related to HDKF. To which of the following is OKRM related, following the same logic?

(a) LPNS

(b) PLSN

(c) PLNS

(d) LPSN

Answer: (b)

12. In a certain code language, 'N E W S ' is coded as '2 @ 3 #' and 'D E W S' is coded as '4 @ 3 #". What is the code for 'D' in that language?

(a) 3

(b) @

(c) 2

(d) 4

Answer: (d)

14. Seven people C, H, A, P, T, E and R are sitting around a circular table, facing the centre (but not necessarily in the same order). T is sitting to the immediate right of E and to the immediate left of R. Only one person is sitting between E and C when counted from the left of E. Only one person is sitting between R and H when counted from the right of R. Who is sitting to the immediate left of C?

(a) A

(b) P

(c) H

(d) E

Answer: (c)

15. Seven people A, B, C, D, E, F and G are sitting around a circular table, facing away from the centre (but not necessarily in the same order). Exactly three people are sitting between E and B when counted from the right of E. C is sitting second to the left of B. A is sitting to the immediate right of D. E and F are not neighbours. How many people are sitting between C and A when counted from the right of C?

(a) 3

(b) 4

(c) 2

(d) 1

Answer: (a)

16. What should come in place of the question mark (?) in the given series?

483 502 521 540 559 ?

(a) 562

(b) 586

(c) 573

(d) 578

Answer: (d)

18. 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 laptops are speakers. Some laptops are desktops.

Conclusions:
(I) Some speakers are desktops.
(II) Some desktops are not laptops.

(a) Neither conclusion I nor II follows.
(b) Only conclusion II follows.
(c) Only conclusion I follows.
(d) Both conclusions I and II follow.

Answer: (c)

19. Select the correct combination of mathematical signs that can sequentially replace the * signs and balance the given equation. 12 * 3 * 4 = 6 * 8 * 8

(a) +, ×, −, +
(b) ×, −, ×, +
(c) ×, +, −, ×
(d) ×, +, ×, −

Answer: (d)

20. 9 is related to 83 following a certain logic. Follow , the same logic, 13 is related to 171. To which ofthe following is 15 related, following the sa logic?(NOTE: Operations should be performed on the whole numbers, without kin own the numbersinto its constituent digits. E.g. 13 – Operations on 13 such as adding /subtrac ultiplying etc. to 13can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1and 3 is not allowed)

(a) 231
(b) 227
(c) 235
(d) 225

Answer: (b)

General Awareness

1. To which position in the Mughal administration under Akbar does Diwan-i-Ala refer?

(a) Defence Minister
(b) Finance Minister
(c) Court Writer
(d) Prime Minister

Answer: (b)

2. According to Census 2011 of India, which Indian state has the highest urban population percentage?

(a) Maharashtra
(b) Goa
(c) Kerala
(d) Mizoram

Answer: (b)

3. When did the Hockey wizard Major Dhyan Chand make his Olympic debut?

(a) 1924, Paris
(b) 1936, Berlin
(c) 1932, Los Angeles
(d) 1928, Amsterdam

Answer: (d)

4. In the Vedic period, education was begun with which of the following?

(a) Niyoga
(b) Vanaprastha
(c) Upanayana
(d) Grihastha

Answer: (c)

5. The memoir of which of the following actors is titl Unfinished'?

(a) Deepika Padukone
(b) Katrina Kaif
(c) Priyanka Chopra
(d) Alia Bhatt

Answer: (c)

6. The space-filling model emphasises the relative size of each atom based on its _____.

(a) fixed radius for all atoms
(b) covalent radius
(c) van der Waals radius
(d) ionic radius

Answer: (c)

8. 'Doabs' are found in which physical feature of India?

(a) The Coastal Plains
(b) The Himalayan Mountains
(c) The Peninsular Plateau
(d) The Northern Plains

Answer: (d)

9. Which of the following Harappan cities was found without a citadel?
   (a) Banawali
   (b) Kalibangan
   (c) Chanhudaro
   (d) Lothal
   Answer: (c)

10. A person with a very low count of red blood cells is medically known to have _____.
   (a) Jaundice
   (b) Scurvy
   (c) Anaemia
   (d) Goitre
   Answer: (c)

11. Australia won the Men's T20 World Cup Cricket in 2021 defeating New Zealand by _____.
   (a) 8 wickets
   (b) 10 runs
   (c) 8 runs
   (d) 10 wickets
   Answer: (a)

12. The Republic Day parade is held every year at Kar ya Path, in which of the following cities?
   (a) Jaipur
   (b) Dispur
   (c) Bangalore
   (d) New Delhi
   Answer: (d)

13. With which Kathak gharana was Pandit Janki Prasad affiliated?
   (a) Lucknow
   (b) Benaras
   (c) Jaipur
   (d) Rajgarh
   Answer: (b)

14. Sitara Devi was a classical dancer of India who used to perform _____.
   (a) Kathakali
   (b) Kathak
   (c) Odissi
   (d) Sattriya
   Answer: (b)

15. Water from melting snow or rainfall or the spring drains downwards through an area of land and finally gets mixed into a large water body like river or ocean. This area of land is called:

(a) Estuary
(b) Bay
(c) Delta
(d) Drainage Basin

Answer: (d)

16. Which of the following Acts was the first intervention by the British government in the East India Company's territorial affairs?

(a) The Pitt's India Act, 1784
(b) The Charter Act of 1793
(c) The Charter Act of 1813
(d) The Regulating Act, 1773

Answer: (d)

17. Who among the following is appointed as the chairman of the 16 th Finance Commission?

(a) Dr Vijay Kelkar
(b) Arvind Panagariya
(c) NK Singh
(d) YV Reddy

Answer: (b)

18. What is the year of foundation of the Women's I n Association (WIA)?

(a) 1927
(b) 1917
(c) 1937
(d) 1907

Answer: (b)

19. In which of the following groups of States and Union Territories is 'slash and burn' agriculture known as 'Dipa'?

(a) Odisha and Puducherry
(b) Chhattisgarh and Lakshadweep
(c) Rajasthan and Andaman & Nicobar Islands
(d) Chhattisgarh and Andaman & Nicobar Islands

Answer: (d)

20. Mukhya Mantri Sikho Kamao Yojana was launched by which of these state governments?

(a) Uttar Pradesh
(b) Gujarat
(c) Maharashtra
(d) Madhya Pradesh

Answer: (d)

21. What is the term for the maximum population size that an environment can sustain indefinitely?
    (a) Ecological niche
    (b) Biotic potential
    (c) Pioneer species
    (d) Carrying capacity
    Answer: (d)

22. In which neighbouring country of India is the Haa Summer Festival celebrated?
    (a) Bhutan
    (b) Maldives
    (c) Sri Lanka
    (d) Afghanistan
    Answer: (a)

24. The Indian Constitution originally consisted of how many Articles?
    (a) 345
    (b) 595
    (c) 495
    (d) 395
    Answer: (d)

English Language and Comprehension

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

She asked if he could recount a moment when he felt completely serene.
    (a) turbulent
    (b) hilarious
    (c) pacific
    (d) derogatory
    Answer: (a)

2. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Mohit have appreciated Riya for her hard work.
    (a) have appreciates
    (b) had appreciating
    (c) has appreciated
    (d) No substitution required
    Answer: (c)

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

Stories are how we make _____ of our lives and of the world.

(a) sagacious
(b) sense
(c) sensitivity
(d) innate

Answer: (b)

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

Fondness

(a) Dislike
(b) Mistake
(c) Brilliance
(d) Liking

Answer: (d)

6. Select the most appropriate ANOTNYM of the word 'zest' in the given sentence.

The peppy and energetic music of the DJ was able to remove the passivity and dullness present in the party.

(a) peppy
(b) dullness
(c) energetic
(d) remove

Answer: (b)

7. Select the option that rectifies the spelling error of the underlined word.

The historic cathedrel stood as a symbol of faith and architectural marvel, drawing visitors from around the world.

(a) cathedral
(b) cathidral
(c) cathidrel
(d) cathedril

Answer: (a)

8. Select the most appropriate synonym of the word given in brackets to fill in the blank.

In the absence of her parents, the little girl felt _____ (lonely).

(a) collectively
(b) alone
(c) sociable
(d) crowded

Answer: (b)

10. Select the INCORRECTLY spelt word.

(a) Creative
(b) Search
(c) Multiple
(d) Revaeled

Answer: (d)

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

Much of the beauty and glory of life have disappeared.

(a) of life
(b) beauty and glory
(c) Much of the
(d) have disappeared.

Answer: (d)

12. Select the most appropriate adjective to fill in the blank.

Among the three little cats, the first was _____ and the second was smaller.

(a) most smallest
(b) small
(c) more small
(d) most small

Answer: (b)

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

A room for cleaning and storing dishes and cooking utensils and for doing messy kitchen work.

(a) Sanatorium
(b) Scullery
(c) Dormitory
(d) Overlay

Answer: (b)

14. Parts of the following sentence have been given as options. Select the option that contains an error. This is one of best movies I have ever seen.

(a) movies
(b) one of best
(c) I have ever seen
(d) This is

Answer: (b)

15. Rectify the sentence by selecting the correct spelling from the options.

While threatening the integrity of Universal values, the campaign to spread democracy will not suceed.

(a) Suucced
(b) Succsed
(c) Succeed
(d) Sucseed

Answer: (c)

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

He is the friendly man in the group.

(a) most friendly
(b) friendlier
(c) friendliest
(d) more friendly

Answer: (c)

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

Baker's Dozen

(a) A pile of bread
(b) Choosing quality over quantity
(c) One unit extra with one dozen
(d) When shopkeepers put something extra

Answer: (c)

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

Departing or having departed from a country to settle elsewhere

(a) Native
(b) Immigrant
(c) Excommunicate
(d) Emigrant

Answer: (d)

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

Despite facing numerous challenges, the team successfully _____ the project ahead of schedule.

(a) completed
(b) has been completed
(c) will be completed
(d) had completed

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. The (1)_____ life in Kashmir was drawing to its end after three (2)_____ months. Miss Joan was leaving a week earlier than Mrs. Rhodes, and about two days before she left, I took her alone to the hotel for dinner. We walked to the hotel in (3)_____ silence, a silence so heavy that I could (4)_____ breathe. The hotel seemed to be far away and yet not far (5)_____.

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

(a) biquadratic
(b) tonetic
(c) mucolytic
(d) romantic

Answer: (d)

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

(a) jealous
(b) analogous
(c) anonymous
(d) glorious

Answer: (d)

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

(a) slack
(b) perfect
(c) direct
(d) select

Answer: (b)

24. Select the most appropriate option to fill in blank number 4.=

(a) gladly
(b) loudly
(c) gradually
(d) hardly

Answer: (d)

25. Select the most appropriate option to fill in blank number 5.=

(a) thorough

(b) enough

(c) overweigh

(d) clough

Answer: (b)

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

1	**(d)**	2	**(a)**	3	**(c)**	5	**(c)**	6	**(b)**
7	**(c)**	9	**(c)**	10	**(d)**	12	**(c)**	17	**(c)**
19	**(c)**	20	**(b)**						

Reasoning Ability and Problem Solving

4	**(a)**	5	**(c)**	6	**(c)**	7	**(a)**	8	**(b)**
9	**(c)**	11	**(b)**	12	**(d)**	14	**(c)**	15	**(a)**
16	**(d)**	18	**(c)**	19	**(d)**	20	**(b)**		

General Awareness

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

English Language and Comprehension

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