PREVIOUS YEAR PAPER

SSC MTS 2024 — 29 October 2024, Shift 2

SSC MTS & Havaldar · 29 October 2024 · 12:30 PM - 2:30 PM

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

Left out of the original paper: 16 (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 29 October 2024, 12:30 PM - 2:30 PM. Each question is followed by its answer, and the answer key is repeated on the last page.

Take it as a timed practice test: exambharo.com/ssc-mts/previous-year-papers/ssc-mts-2024-29-oct-shift-2/

Numerical and Mathematical Ability

2. In how many years will ₹4,000 invested at the rate of 18% per annum simple interest amounts to ₹ 5,800?

(a) 3.5
(b) 2.5
(c) 3
(d) 2

Answer: (b)

4. By selling an article for ₹20, a dealer makes a profit of 10%. By how much should he increase his selling price (in ₹, rounded off to two decimal place) s...s to make a profit of 25%?

(a) 5.73
(b) 3.73
(c) 4.73
(d) 2.73

Answer: (d)

5. The average of 11 consecutive numbers is 30. The smallest number among these is:

(a) 12
(b) 18
(c) 25
(d) 28

Answer: (c)

8. An item was sold for ₹40 with a profit of 15%. If it were sold for ₹36, then what would have been the percentage of profit or loss? (rounded off to 1 decimal places).

(a) Profit 4.7%
(b) Loss 3.7%
(c) Loss 4.5%
(d) Profit 3.5%

Answer: (d)

9. The average of 7 numbers is 10.8. If the average of the first three be 10.5 and that of the last three is 11.4, find the value of the middle number.

(a) 9.7
(b) 9.5
(c) 9.9
(d) 9.8

Answer: (c)

12. Find the simple interest (in ₹) on ₹4000 as a sum borrowed at 4% per year rate of interest for 2 years.

(a) 280
(b) 320
(c) 360
(d) 260

Answer: (b)

13. If 5 + x, 2x + 7, 6x + 9 and y are in proportion when x = 2,then find the value of y.

(a) 33
(b) 45
(c) 42
(d) 28

Answer: (a)

14. The marked price of an item is 50% more than i[illegible]ost price. The shopkeeper offers two successive discounts of 10% and 15%. Wh[illegible] his [illegible]ofit percentage?

(a) 15%
(b) 14.75%
(c) 12.75%
(d) 15.75%

Answer: (b)

15. The average of 10 observations is 46. It was realised later that an observation was misread as 42 in place of 142. Find the correct average.

(a) 65
(b) 54
(c) 56
(d) 45

Answer: (c)

16. Two trains of lengths 108 metre and 112 metre are running at speeds of 45 km/h and 54 km/h, respectively, towards each other on parallel tracks. In how many seconds will they cross each other?

(a) 12 seconds
(b) 9 seconds
(c) 8 seconds
(d) 10 seconds

Answer: (c)

17. On a circular race track of 2500 m, Sahil and Reena are running in the same direction at speeds of 27 km/h and 45 km/h, respectively. After how much time will they meet each other for the first time?

(a) 500 seconds
(b) 450 seconds
(c) 480 seconds
(d) 530 seconds

Answer: (a)

18. The average age of 6 children and their father is 13 years, and this average is reduced by 4 years if the father is excluded. How old is the father?

(a) 38 years
(b) 42 years
(c) 41 years
(d) 37 years

Answer: (d)

19. If the radius of a right circular cylinder is d[illegible]ed by 40% and its height is increased by 75%, its volume will be decreased by:

(a) 65%
(b) 35%
(c) 37%
(d) 57%

Answer: (c)

20. Find the simple interest (in ₹) on ₹4000 as a sum borrowed at 4% per year rate of interest for 4 years.

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

Answer: (d)

Reasoning Ability and Problem Solving

1. S, U, B, J, E, C and T are sitting around a circular table facing the center (but not necessarily in the same order). C is sitting to the immediate right of T. U is an immediate neighbour of both T and E. Only one person is sitting between C and S when counted from the right of C. B is sitting to the immediate left of E. Who are the immediate neighbours of J?

(a) S and C

(b) S and E

(c) B and E

(d) U and B

Answer: (a)

3. What will come in place of the question mark (?) of the following equation, if '+' and '–' are interchanged and '×' and '÷' are interchanged?

17 – 9 + 20 × 4 ÷ 5 = ?

(a) 20

(b) 1

(c) 15

(d) 26

Answer: (b)

4. In a certain code language, 'written on paper' is written as 'ma rc gp' and 'paper and pen' is writtenas 'hk ma bo'. How will 'paper' be writtenin that language?

(a) gp

(b) ma

(c) bo

(d) hk

Answer: (b)

6. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. Select the set 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 their constituent digits. E.g. 13 – Operations on 13 such as adding/ subtracting / multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) 34, 24 85, 75

(a) 42, 31

(b) 54, 52

(c) 36, 32

(d) 66, 56

Answer: (d)

7. In a certain code language, ‘ORANGE’ is written as ‘LIZMTV’ and ‘PURPLE’ is written as ‘KFIKOV’. What is the code for ‘MAGENTA’ in the given code language?

(a) NZTVMHZ
(b) NZSVMGZ
(c) NZTVMGZ
(d) NZTVNGZ

Answer: (c)

8. In a certain code language, ‘rose are similar’ is written as ‘ki ko ku’ and ‘rose has thorns’ is coded as ‘ke ki ka’. How is ‘rose’ coded in that language?

(a) ki
(b) ko
(c) ka
(d) ku

Answer: (a)

9. AS 9 is related to UU 2 in a certain way. In the same way, BT 6 is related to VV −1. To which of the following is HG 9 related, following the same logic?

(a) BI 2
(b) BG −2
(c) AJ 2
(d) AI 2

Answer: (a)

11. What should come in place of the quest mar) in the following series? 263, 268, 278, 293, 313, ?

(a) 341
(b) 339
(c) 340
(d) 338

Answer: (d)

12. P, Q, R, S, T and U are six friends sitting around a circular table, facing the centre (but not necessarily in the same order), having their breakfast. U is sitting exactly between Q and S and is third to the right of T. R is sitting to the immediate left of S. Who is the immediate neighbour of both P and R?

(a) S
(b) T
(c) U
(d) Q

Answer: (b)

13. 23 is related to 62 following a certain logic. Following the same logic, 37 is related to 104. To which ofthe following is 19 related, following the same logic?(NOTE: Operations should be performed on the whole numbers, without breaking down the numbersinto its constituent digits. E.g. 13 – Operations on 13 such as adding /subtracting /multiplying etc. to 13can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1and 3 is not allowed)

(a) 57
(b) 50
(c) 42
(d) 38

Answer: (b)

14. TOVR is related to UPWS in a certain way based on the English alphabetical order. In the same way, QLSO is related to RMTP. To which of the following is NIPL related following the same logic?

(a) OJQM
(b) JOQM
(c) JOMQ
(d) OJMQ

Answer: (a)

16. 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: Some books are notes. All notes are co[illegible].

Conclusions:
(I) Some books are copies.
(II) No books is copies.

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

Answer: (b)

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

BCD, FGH, JKL, NOP, ?

(a) QRS
(b) RQS
(c) RST
(d) QSR

Answer: (c)

18. In a certain code language, ‘she can sing’ is written as ‘dq tk dp’ and ‘sing with me’ is writtenas ‘az dq js’. How is ‘sing’ writtenin the given language?

(a) dp
(b) tk
(c) dq
(d) az

Answer: (c)

20. What will come in the place of the question mark ‘?’ in the following equation, if ‘+’ and ‘−’ are interchanged and ‘×’ and ‘÷’ are interchanged? 39 + 3 ÷ 12 − 33 × 11 =?

(a) 5
(b) 6
(c) 3
(d) 4

Answer: (b)

General Awareness

1. Which of the following Parts of the Indian Constitution mentions about the relations between the Union and the States?

(a) Part VIII
(b) Part XI
(c) Part X
(d) Part VII

Answer: (b)

2. By what name is the species of Scaphopoda Mollusca 'Dentalium' commonly known?

(a) Duck mussel
(b) Tusk shells
(c) Heart clam
(d) Head foot

Answer: (b)

3. Stunted growth, which is common in children growing up in extreme poverty, is a sure sign of _____.

(a) Undernutrition
(b) Lack of Clothing
(c) Lack of Housing
(d) Sleep Deprivation

Answer: (a)

4. In November 2023, who was appointed as the Chief Information Commissioner of India?

(a) Heeralal Samariya
(b) Arvind Subramanian
(c) Rajiv Gauba
(d) Randeep Guleria

Answer: (a)

5. Which of the following is NOT a service of micro finance institution?

(a) Micro insurance
(b) Micro loan
(c) Micro saving
(d) Micro deposit

Answer: (d)

6. When did Bindusara ascend the Maurya throne?

(a) 321 BCE
(b) 299 BCE
(c) 297 BCE
(d) 301 BCE

Answer: (c)

7. Which of the following Articles of the Constitution of India provides for the promotion of international peace and security?

(a) Article 47
(b) Article 51
(c) Article 44
(d) Article 49

Answer: (b)

9. Where of the following was Bal Gangadhar Tilak's Home Rule Movement active?

(a) Bihar
(b) Maharashtra
(c) Madras
(d) Punjab

Answer: (b)

10. In which of the following years did the battle of Plassey take place?

(a) 1796
(b) 1776
(c) 1787
(d) 1757

Answer: (d)

11. According to Census of India 2011, which is the largest religious community in India?

(a) Sikhs
(b) Christians
(c) Muslims
(d) Hindus

Answer: (d)

12. The 'Mangla' oil field is located in which district of Rajasthan?

(a) Bharatpur
(b) Barmer
(c) Kota
(d) Jaipur

Answer: (b)

13. At which of the following places is the Lalbagh Flower Show organised, where thousands of flower varieties are put on display in different forms with a particular theme (which changes every year) during the exhibition?

(a) Bengaluru
(b) Hyderabad
(c) Patiala
(d) Patna

Answer: (a)

14. Women's Reservation Bill 2023 [The Constitutio One Hundred Twenty-Eighth Amendment) Bill, 2023] was introduced in Lok Sabha on ___ _ ___.

(a) 21 Sep 2023
(b) 20 Sep 2023
(c) 19 Sep 2023
(d) 22 Sep 2023

Answer: (c)

15. To which of the following classes of compounds does cyclohexane belong?

(a) Benzenoid aromatic compound
(b) Heterocyclic compound
(c) Non-benzenoid aromatic compound
(d) Alicyclic compound

Answer: (d)

16. Vedantam Satyanarayana Sarma is associated with which of the following dances?

(a) Kathakali
(b) Mohiniyattam
(c) Kuchipudi
(d) Odissi

Answer: (c)

17. Groundwater is an important source of water. The top level of the groundwater layer is called:

(a) water table
(b) underground water
(c) sea level
(d) well

Answer: (a)

18. Sanchi stupa was rediscovered in the year _____ by General Henry Taylor.

(a) 1819
(b) 1818
(c) 1816
(d) 1817

Answer: (b)

19. If the server manages to land a legal serve and the receiver is unable to return the ball, it is known as an ace and the server gets the point. Which of the following sport is referred here?

(a) Boxing
(b) Tennis
(c) Shooting
(d) Wrestling

Answer: (b)

20. Which Indian actress from the following, is also a popular dancer and received the Smita Patil Memorial award for her role in the movie Damini?

(a) Rekha
(b) Jaya Prada
(c) Meenakshi Seshadri
(d) Madhuri Dixit

Answer: (c)

21. In which of the following cities was the headquarters of Theosophical Society established in British India?

(a) Ashok Nagar
(b) Adyar
(c) Alandur
(d) Ayanavaram

Answer: (b)

22. _____ was/were the mascot(s) of the Women's Asian Hockey Champions Trophy in 2023.

(a) Juhi
(b) Blaze and Tonk
(c) Yashi
(d) Hansa

Answer: (a)

23. Which of the following Union Territories of India marks the lowest poverty in National Multidimensional Poverty Index: A Progress Review 2023?

(a) Puducherry
(b) Chandigarh
(c) Delhi
(d) Lakshdweep

Answer: (a)

24. The Narora _____ Power Station is located in Uttar Pradesh.

(a) Natural Gas
(b) Thermal
(c) Atomic
(d) Wind

Answer: (c)

25. Which Hindustani classical musician is credited with popularising the Sarangi as a solo classical instrument?

(a) Pandit Ravi Shankar
(b) Pandit Shiv Kumar Sharma
(c) Pandit Jnan Prakash Ghosh
(d) Pandit Ram Narayan

Answer: (d)

English Language and Comprehension

1. The following sentence has been split into fo gments. Identify the segment that contains a grammatical error. The dog / eager wagged / its tail when / it saw its owner.

(a) The dog
(b) it saw its owner
(c) eager wagged
(d) its tail when

Answer: (c)

3. Select the appropriate option that can substitute the underlined word in the following sentence to make it grammatically correct.

Meerut is farthest from Delhi.

(a) far
(b) most farthest
(c) farther
(d) more farther

Answer: (a)

4. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. The soldiers / sacrifice their lives / to guarding / the nation and its boundaries.

(a) sacrifice their lives
(b) to guarding
(c) the nation and its boundaries
(d) The soldiers

Answer: (b)

6. Select the INCORRECTLY spelt word.

Majority of communication satelites are placed in geostationary orbits around the earth, which means that their speed matches the rate of its rotation.

(a) Satelites
(b) Rotation
(c) Geostationary
(d) Communication

Answer: (a)

7. Select the most appropriate synonym of the given word. Meticulous

(a) Negligent
(b) Random
(c) Careless
(d) Precise

Answer: (d)

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

The sudden plot twist in the story added an element of _____ that kept readers on the edge of their seats.

(a) monotony
(b) ambiguity
(c) redundancy
(d) predictability

Answer: (b)

9. Select the most appropriate ANTONYM of the word given in brackets to fill in the blank. The _____(sarcastic) comments by her husband made her feel uncomfortable, and she decided to walk out of the relationship.

(a) ambiguous
(b) gracious
(c) ruinous
(d) harmonious

Answer: (b)

12. Identify the most appropriate ANTONYM of the word in brackets. The teacher commended the student for his (diligent) efforts.

(a) Conscientious
(b) Hardworking
(c) Lazy
(d) Industrious

Answer: (c)

13. Select the option that can be used as a one-word substitute for the given phrase. One who is a newcomer

(a) Narcissist
(b) Polyglot
(c) Nepotist
(d) Neophyte

Answer: (d)

14. Select the most appropriate synonym of the underlined word in the following sentence. She is an epitome of grace.

(a) Destroyer
(b) Believer
(c) Admirer
(d) Example

Answer: (d)

15. Select the most appropriate option to fi[illegible]the [illegible]nk.

She had a _____ for creating beautiful artwork.

(a) post
(b) mode
(c) talent
(d) trigger

Answer: (c)

16. Select the INCORRECTLY spelt word.

(a) Eficcient
(b) Tournament
(c) Belligerent
(d) Parliament

Answer: (a)

17. Parts of the following sentence have been given as options. Select the option that contains an error. The 100-year-old banyan was blown off in the storm last night.

(a) in the storm
(b) was blown off
(c) The 100-year-old banyan
(d) last night

Answer: (b)

18. The following sentence has been split into four segments. Identify the segment that contains a grammatical/spelling error. According to Mr. Sharma / the news have come / as another blow / to the family members.

(a) as another blow
(b) to the family members
(c) According to Mr. Sharma
(d) the news have come

Answer: (d)

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

The speaker delivered an engaging speech that inspired the audience.

(a) dreary
(b) important
(c) captivating
(d) unnecessary

Answer: (c)

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

The teacher called up the class due to the sudden snowstorm.

(a) called on the class
(b) called out the class
(c) called in the class
(d) called off the class

Answer: (d)

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.
>
> Despite her background role in the past, Ms Navalnaya has always been a crucial supporter of (1)..... husband and was instrumental in getting him out of Russia for (2)..... treatment when he was poisoned with Novichok nerve agent in 2020. She has been (3)..... as the 'First Lady' of the Russian opposition. And Alexei said himself that he could not continue his increasingly desperate and onesided fight against the Kremlin without her. Their very public love story and family life - they have two children - (4)..... seen as an inspiration for their supporters. Yulia Ambrosimova was born in Moscow in 1976, daughter of the respected scientist Boris Ambrosimov. As economics graduate, she had a career in banking but (5)..... her job to bring up their two children when Alexei rose to prominence as an opposition politician.

21. Select the most appropriate option to fill in blank number 1.
    (a) their
    (b) them
    (c) hers
    (d) her

    Answer: (d)

22. Select the most appropriate option to fill in blank number 2.
    (a) urgent
    (b) slow
    (c) crazy
    (d) interesting

    Answer: (a)

23. Select the most appropriate option to fill in blank number 3.
    (a) detected
    (b) described
    (c) deleted
    (d) changed

    Answer: (b)

24. Select the most appropriate option to fill in blank number 4.
    (a) has been
    (b) will been
    (c) was being
    (d) is been

    Answer: (a)

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

(a) gave up

(b) brought about

(c) broke down

(d) keep back

Answer: (a)

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)**	4	**(d)**	5	**(c)**	8	**(d)**	9	**(c)**	12	**(b)**
13	**(a)**	14	**(b)**	15	**(c)**	16	**(c)**	17	**(a)**	18	**(d)**
19	**(c)**	20	**(d)**								

Reasoning Ability and Problem Solving

1	**(a)**	3	**(b)**	4	**(b)**	6	**(d)**	7	**(c)**	8	**(a)**
9	**(a)**	11	**(d)**	12	**(b)**	13	**(b)**	14	**(a)**	16	**(b)**
17	**(c)**	18	**(c)**	20	**(b)**						

General Awareness

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

English Language and Comprehension

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