PREVIOUS YEAR PAPER

SSC MTS 2024 — 5 November 2024, Shift 2

SSC MTS & Havaldar · 5 November 2024 · 12:30 PM - 2:30 PM

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

Left out of the original paper: 19 (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 5 November 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-2024-5-nov-shift-2/

Numerical and Mathematical Ability

3. By selling an article for ₹20, a dealer makes a profit of 20%. By how much should he increase his selling price (in ₹, rounded off to two decimal place) so as to make a profit of 30%?

(a) 1.67
(b) 4.67
(c) 3.67
(d) 2.67

Answer: (a)

6. A number is increased by 24% and then decreased by 25%. What is the net increase or decrease percentage?

(a) Decrease 7%
(b) Increase 8%
(c) Decrease 8%
(d) Increase 7%

Answer: (a)

7. The average of all the numbers between 8 and 68 that are divisible by 9 is:

(a) 33
(b) 31.5
(c) 40.5
(d) 36

Answer: (d)

9. A policeman notices a thief from a distance of 220 m. He chases the thief when he started running the moment he saw the police. The thief and policeman run at the rate of 9 km/h and 11 km/h respectively. How much distance policeman has to cover for catching the thief?

(a) 1.21 km
(b) 0.98 km
(c) 0.86 km
(d) 1.48 km

Answer: (a)

12. Find the simple interest (in ₹) on ₹3000 as a sum borrowed at 9% per year rate of interest for 5 years.

(a) 1390
(b) 1310
(c) 1350
(d) 1290

Answer: (c)

13. Find the simple interest (in ₹) on ₹2500 as a sum borrowed at 8% per year rate of interest for 5 years.

(a) 940
(b) 1040
(c) 1000
(d) 960

Answer: (c)

14. If the numbers X + 2, X + 5, 2X − 3 and 3X − 5 are in proportion, then which of the following pairs of values is possible for X?

(a) 5 and 1
(b) 3 and 2
(c) 5 and 3
(d) 4 and 2

Answer: (a)

15. The monthly incomes of Selva for 3 mo[illegible] of [illegible]ear are ₹19,500, ₹21,500 and ₹22,000. What is Selva's average income per month for these [illegible]s?

(a) ₹20,500
(b) ₹20,000
(c) ₹21,000
(d) ₹21,500

Answer: (c)

16. The LCM of 16,20 and 24 is:

(a) 180
(b) 240
(c) 260
(d) 135

Answer: (b)

17. The average weight of 5 persons sitting in a boat is 28 kg. If the average weight of the boat and the persons sitting in the boat is 56 kg, what is the weight of the boat?

(a) 232 kg
(b) 196 kg
(c) 242 kg
(d) 122 kg

Answer: (b)

18. A and B start running on a circular race track whose length is 3240 m. A and B start from the same point and at the same time, but in opposite directions. If A runs at a speed of 10 m/s and they cross each other 3 minutes after they start running, then what is B's speed (in m/s)?

(a) 7.5
(b) 8.5
(c) 9
(d) 8

Answer: (d)

19. Ram borrows a sum of ₹24,000 from his friend Soham on 31December 2021 on the condition that he will return the same after one year with simple interest at 18% per annum. However, Ram is able to return the money on 1August 2022. What amount does Ram have to return to Soham?

(a) ₹26,520
(b) ₹26,250
(c) ₹25,250
(d) ₹25,520

Answer: (a)

20. What is the difference between the average of prime numbers between 30 and 50 and the average of multiples of 3 between 20 and 50?

(a) 5.3
(b) 4.5
(c) 2.6
(d) 3.2

Answer: (a)

Reasoning Ability and Problem Solving

2. In a code language, 'JASMINE' is coded as '213' and 'TULIP' is coded as '234'. How will 'CHAMELI' be coded in the same language?

(a) 148
(b) 153
(c) 157
(d) 143

Answer: (b)

4. In a certain code language, 'POST' is coded as '3854' and 'TIPS' is coded as '5648'. What is the code for 'O' in that language?

(a) 4
(b) 8
(c) 3
(d) 6

Answer: (c)

5. In the following number-pairs, the second number is obtained by applying certain mathema cal opera ons 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: Opera ons should be performed on the whole numbers, without breaking down the numbers into their cons tuent digits. E.g. 13 – Opera ons on 13 such as adding/subtrac ng/mul plying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathema cal opera ons on 1 and 3 is not allowed.)

10, 49 14, 69

(a) 18, 88
(b) 17, 89
(c) 17, 88
(d) 18, 89

Answer: (d)

6. In a certain code language, 'do it correctly' is wri n as 'nq sd fo' and 'Please do this' is written as 'rt fo in'. How is 'do' written in the given `o la uage?

(a) fo
(b) nq
(c) rt
(d) sd

Answer: (a)

7. 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 cameras are radios. All radios are routers. Conclusions: (I): Some cameras are routers. (II): No camera is a router.

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

Answer: (c)

8. What will come in the place of '?' in the following equation, if '+' and '–' are interchanged and '×' and '÷' are interchanged? 25 + 20 × 10 ÷ 2 – 5 = ?

(a) 26
(b) 10
(c) 19
(d) 39

Answer: (a)

10. 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 cameras are phones. No phone is a laptop.

Conclusions:
(I) Some phones are cameras.
(II) Some laptops are phones.

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

Answer: (d)

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

736, 689, 642, 595, 548 ?

(a) 501
(b) 511
(c) 499
(d) 481

Answer: (a)

12. In a certain code language, 'I Love biryani' is written as 'qs vx pg' and 'biryani was good' is written as 'vx pm ed'. How is 'biryani' written in the given code language?

(a) ed
(b) qs
(c) vx
(d) pm

Answer: (c)

13. U, V, W, X, Y, Z and A are sitting around a circular table facing the centre (but not necessarily in the same order). Only one person sits between Y and X when counted from the left of X. A sits third to the right of U. V sits third to the left of W. A sits to the immediate right of V. Z is not an immediate neighbour of V. How many people sit between Z and X when counted from the right of Z?

(a) Two
(b) Four
(c) Three
(d) One

Answer: (c)

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

JBM, MEJ, PHG, SKD, ?

(a) VNC
(b) WNA
(c) WNB
(d) VNA

Answer: (d)

16. Seven people A, B, C, D, E, F and G are sitting around a circular table, facing the centre (but not necessarily in the same order). D is sitting second to the left of B. Exactly two people are sitting between B and A when counted from the right of B. G is sitting to the immediate left of A. F is not an immediate neighbour of C. What is the position of G in respect to D?

(a) Third to the left of
(b) Third to the right of
(c) Second to the left of
(d) Second to the right of

Answer: (a)

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

310 × 2 − 3 ÷ 40 + 170 = ?

(a) 151
(b) 129
(c) 105
(d) 142

Answer: (c)

18. PS 41 is related to KN 47 in a certain way. In the same way, TW 30 is related to OR 36. To which of the following is VY 27 related following the same logic?

(a) LH 33
(b) HL 33
(c) QT 33
(d) TQ 33

Answer: (c)

19. EHJD is related to LOQK in a certain way based on the English alphabetical order. In the same way, GJLF is related to NQSM. To which of the following is ILNH related, following the same logic?

(a) PSUO
(b) SPOU
(c) SPUO
(d) PSOU

Answer: (a)

20. 22 is related to 43 following a certain logic. Following the same logic,35 is related to 69. To which of the following is 81 related, following the same logic?

(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 / subtracting / 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) 162
(b) 161
(c) 160
(d) 163

Answer: (b)

General Awareness

1. The shotgun (in the shooting sport) is a _____ gauge having a calibre of 18.5-millimetres (The gauge is a unit of measurement for firearms).

(a) 18
(b) 10
(c) 12
(d) 15

Answer: (c)

3. Who among the following was appointed as the Director of the Central Bureau of Investigation (CBI) in May 2023?

(a) Praveen Sood
(b) Rakesh Asthana
(c) Debadatta Chand
(d) Shantanu Roy

Answer: (a)

4. The Swaraj party was formed within _____ with the thought of contesting elections to enter the legislative councils with a view to obstructing the governance of the colonial government.

(a) All India Muslim League

(b) Independent Labour Party

(c) The Unionist Party

(d) Indian National Congress

Answer: (d)

5. Padma Shri Pandit Rajeev Tharanath, the famous _____ player is from the state of Karnataka.

(a) sarod

(b) flute

(c) violin

(d) sitar

Answer: (a)

6. Under Article 165, the Governor appoints a person who is qualified to be appointed a Judge of a High Court to be the _____ for the State.

(a) Comptroller Auditor General

(b) Attorney General

(c) Advocate-General

(d) Chief Minister

Answer: (c)

7. Which of the following Articles is automatically suspended when an emergency is declared on the grounds of external aggression?

(a) Article 35

(b) Article 22

(c) Article 32

(d) Article 19

Answer: (d)

8. The 'Mahawat' term is associated with which season in North-West India?

(a) Winter rainfall

(b) Post Monsoons rainfall

(c) Summer rainfall

(d) Rainy season

Answer: (a)

9. Which day is celebrated as International Day of Non-Violence?

(a) 15 th August

(b) 31 st October

(c) 2 nd October

(d) 31 st January

Answer: (c)

10. The English novel ‘Morning Face’ is written by:

(a) Mulk Raj Anand

(b) Vikram Seth

(c) Anita Desai

(d) RK Narayan

Answer: (a)

11. Rita Mustaphi who is honoured with Mcknight Fellowship of 2023 for her excellent innovation in which of the following Indian Dance Forms?

(a) Yakshagana

(b) Manipuri

(c) Kathakali

(d) Kathak

Answer: (d)

12. Brahmo Samaj, the theistic movement within Hinduism, was founded by Raja Ram Mohan Roy in the year _____.

(a) 1879

(b) 1839

(c) 1856

(d) 1828

Answer: (d)

13. Which of the following Census decades in India orded the highest crude death rate?

(a) 1941-1951

(b) 1911-1921

(c) 1991-2001

(d) 1931-1941

Answer: (b)

16. In which athletics event did Eldhose Paul win a gold medal at the Commonwealth Games 2022?

(a) Triple Jump

(b) Long Jump

(c) Javelin Throw

(d) Shot Put

Answer: (a)

17. Which volume of the ‘Akbar-Nama’ is known as Ain-i-Akbari and deals with Akbar’s administration, household, army and the revenues and geography of his empire?

(a) Fourth

(b) Second

(c) Fifth

(d) Third

Answer: (d)

18. Kelucharan Mohapatra is associated with which of the following dances?

(a) Dumhal
(b) Fugdi
(c) Odissi
(d) Bihu

Answer: (c)

20. Who among the following was a contemporary of Buddha, but is not considered the first founder of the religion?

(a) Arishtanemi
(b) Mahavira Swami
(c) Bhadrabahu
(d) Rishabhanath

Answer: (b)

21. If the body of an animal can be divided into two indistinguishable left and right halves through only one plane, then it possesses:

(a) asymmetricity
(b) bilateral symmetry
(c) radial symmetry
(d) centre of symmetry

Answer: (b)

22. In his autobiography, Babur described his intere n planning and laying out formal gardens, placed within rectangular walled enclosure nd d ed into four quarters by artificial channels. These gardens are known as _____ .

(a) Panch Bagh
(b) Saat Bagh
(c) Teen Bagh
(d) Chahar Bagh

Answer: (d)

25. Before the introduction of Periodic Labour Force Survey (PLFS), what type of surveys did the National Statistical Office (NSO) conduct for employment and unemployment indicators in India?

(a) Decennial surveys
(b) Quinquennial surveys
(c) Monthly surveys
(d) Biennial surveys

Answer: (b)

English Language and Comprehension

1. Select the INCORRECTLY spelt word.

(a) Forgotten
(b) Veneration
(c) Indoulgent
(d) Happiness

Answer: (c)

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

John's coffee is hot than Jack's.

(a) hottest
(b) most hot
(c) hotter
(d) more hotter

Answer: (c)

3. Select the most appropriate synonym of the underlined word. The politician's speech was an attempt to mitigate the concerns of the citizens.

(a) Aggravate
(b) Establish
(c) Lessen
(d) Understand

Answer: (c)

4. Select the most appropriate synonym of the underlined word. The news of her promotion left her feeling buoyant, with a sense of accomplishment and pride in her work.

(a) Shy
(b) Peculiar
(c) Dour
(d) Cheerful

Answer: (d)

5. Select the option that has an error in the use of present tense.

(a) I have performed all my duties with utmost sincerity.
(b) I am observing your mischievous activities for half an hour.
(c) The painter is painting the wall right now.
(d) The mother cooks delicious food for her children.

Answer: (b)

6. Identify the word that can replace the INCORRECTLY spelt word in the given sentence. The bakery is known for its scrumptous pastries, especially the cinnamon rolls.

(a) scrumptiouss
(b) scrumptuos
(c) scrumptious
(d) scrummptiouss

Answer: (c)

8. Identify the INCORRECTLY spelt word from the given sentence. Comprehensiveness constitues wisdom and many examples from history illustrate this fact.

(a) Illustrate
(b) Wisdom
(c) Constitues
(d) Comprehensiveness

Answer: (c)

9. Select the word segment that substitutes the bracketed word segment correctly and completes the sentence meaningfully.

The movie was (mostly over) when we entered the hall.

(a) almost over
(b) most done
(c) more done
(d) most over

Answer: (a)

10. Select the most appropriate meaning of the underlined phrase.

Can you please stop con nuously complaining about the student's shortcomings?

(a) Whining
(b) Jesting
(c) Grunting
(d) Crying

Answer: (a)

12. Select the most appropriate option to fill in the blanks.

An adventurer packed _____ backpack and _____ assortment of survival gear for the challenging trek through the wilderness.

(a) a; a
(b) an; an
(c) a; an
(d) an; a

Answer: (c)

13. select the most appropriate synonym of the word given in brackets.

Despite facing numerous challenges, her [tenacious] determination never faded one bit.

(a) stubborn
(b) gentle
(c) confused
(d) weak

Answer: (a)

14. In the following sentence the underlined part contains as error. Alternatives to the underlined part are given as options. Select the correct alternative. He looked extremely smart and handsomest in the black suit.

(a) handsome
(b) handsomer
(c) most handsome
(d) handsomely

Answer: (a)

15. 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. Yesterday, / my surgeon / operate on my knee.

(a) my surgeon
(b) No error
(c) Yesterday
(d) operate on my knee

Answer: (d)

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

After the heavy rains last Thursday, the water in the river raised another three feet.

(a) rose another three feet
(b) raise another three feet
(c) will raise another three feet
(d) risen another three feet

Answer: (a)

17. Select the option that does NOT contain an adverb.

(a) He never forgets his homework.
(b) She ran swiftly to catch the thief.
(c) Maya was quite absent-minded during class today.
(d) Rohit loves chocolate.

Answer: (d)

18. Select the most appropriate ANTONYM to substitute the underlined word in the given sentence. How would you describe your ideal vacation destination?

(a) gloomy
(b) faulty
(c) reproving
(d) instant

Answer: (b)

19. Select the most appropriate option to fill in the blank. We all _____ at the sky as it was full of stars that night.

(a) Gazed
(b) Saw
(c) Hooked
(d) Packed

Answer: (a)

20. Select the most appropriate option to fill in the blank. I need to _____ my shoelaces before going out.

(a) tie
(b) thigh
(c) tye
(d) thai

Answer: (a)

Passage — for questions 21–25

> In the following passage, some words have be eted. Read the passage carefully and select the most appropriate option to fill in each blank.
>
> In the realm of literature, metaphors and similes are like (1) _____ tools for writers. They serve to (2) _____ the reader's understanding and make the text more (3) _____. However, it's crucial for writers to (4) _____ use them, as excessive figurative language can (5) _____ the clarity of the writing.

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

(a) inoperative
(b) indispensable
(c) concision
(d) believable

Answer: (b)

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

(a) flaw
(b) abdicate
(c) cavitate
(d) illuminate

Answer: (d)

23. Select the most appropriate option to fill in blank number 3.
    (a) substantiality
    (b) vivid
    (c) ambiguity
    (d) meaning
    Answer: (b)

24. Select the most appropriate option to fill in blank number 4.
    (a) judiciously
    (b) indiscriminately
    (c) pathetically
    (d) spatially
    Answer: (a)

25. Select the most appropriate option to fill in blank number 5.
    (a) clarify
    (b) simplify
    (c) detract from
    (d) enhance
    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

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

Reasoning Ability and Problem Solving

2	**(b)**	4	**(c)**	5	**(d)**	6	**(a)**	7	**(c)**	8	**(a)**
10	**(d)**	11	**(a)**	12	**(c)**	13	**(c)**	15	**(d)**	16	**(a)**
17	**(c)**	18	**(c)**	19	**(a)**	20	**(b)**				

General Awareness

1	**(c)**	3	**(a)**	4	**(d)**	5	**(a)**	6	**(c)**	7	**(d)**
8	**(a)**	9	**(c)**	10	**(a)**	11	**(d)**	12	**(d)**	13	**(b)**
16	**(a)**	17	**(d)**	18	**(c)**	20	**(b)**	21	**(b)**	22	**(d)**
25	**(b)**										

English Language and Comprehension

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