PREVIOUS YEAR PAPER

SSC MTS 2024 — 11 November 2024, Shift 2

SSC MTS & Havaldar · 11 November 2024 · 12:30 PM - 2:30 PM

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

Left out of the original paper: 18 (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 11 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-2024-11-nov-shift-2/

Numerical and Mathematical Ability

1. Out of his monthly income, Mr. Sharma spends 24% on house rent and 70% on household expenses and saves the balance. If every month, he saves ₹1,200, then what is his monthly income?

(a) ₹20,000
(b) ₹32,000
(c) ₹27,000
(d) ₹25,000

Answer: (a)

2. Find the simple interest (in ₹) on ₹2500 as a sum borrowed at 5% per year rate of interest for 2 years.

(a) 210
(b) 290
(c) 190
(d) 250

Answer: (d)

4. I walk at a speed of 10 km/h and reach my destination in 2 hrs. If I increase my speed by 2 km/h, how early would I reach my destination?

(a) 100 min
(b) 50 min
(c) 40 min
(d) 20 min

Answer: (d)

5. In a class of 40 students the ratio of boys to girls is 3 : 5. If the average marks scored by the boys in Science is 70 and the average marks scored by the whole class in Science is 60, then find the average marks scored by the girls in Science.

(a) 54
(b) 56
(c) 52
(d) 50

Answer: (a)

7. Rahul and Rohit start running on a circular track (of length 360 m) from the same point simultaneously with a speed of 3 m/s and 4 m/s. After how much time from the start, they will meet again at the starting point?

(a) 2 minutes
(b) 12 minutes
(c) 6 minutes
(d) 3 minutes

Answer: (c)

8. Manoj buys 1 kg tomato for ₹80 and sells it for ₹90. He also uses a weight of 800 gm in place of 1 kg. What is Manoj's actual profit percentage on the sale of 1 kg tomato?

(a) 40.625%
(b) 12.5%
(c) 37.5%
(d) 25%

Answer: (a)

10. The average marks obtained by 75 students in a certain examination is 38. Find the total marks.

(a) 4294
(b) 113
(c) 1406
(d) 2850

Answer: (d)

11. In a stationary shop, a pen is marked as ₹20 and is sold at a discount of 15%. The shopkeeper also offers a special discount of ₹8 on the pen. Find the cost price of the pen if the shopkeeper earns a profit of 20%.

(a) ₹62
(b) ₹60
(c) ₹75
(d) ₹50

Answer: (d)

12. Find the simple interest (in ₹) on ₹3500 as a sum borrowed at 3% per year rate of interest for 3 years.

(a) 255
(b) 315
(c) 275
(d) 355

Answer: (b)

14. In an examination, the average marks obtained by 15 students was 96, by 12 other students was 84 and by 13 other students was 68. Find the average marks of all 40 students.

(a) 83.3
(b) 87.6
(c) 68.5
(d) 78.6

Answer: (a)

17. ₹7,000 becomes₹7,567 in 2 years at simple interest at a certain rate percentage. Find the principal amount (in₹) that will become₹24,050 in 5 years at the same rate of interest.

(a) 24,000
(b) 18,300
(c) 20,000
(d) 12,500

Answer: (c)

18. The HCF of 204 and 1547 is:

(a) 17
(b) 15
(c) 18
(d) 19

Answer: (a)

20. The average weight of a family of five members (kg) whose weights are 40 kg, 49 kg, 56 kg, 69 kg and 36 kg is:

(a) 50
(b) 49
(c) 52
(d) 51

Answer: (a)

Reasoning Ability and Problem Solving

1. What will come in place of the question mark (?) in the following equation if '+' and '–' are interchanged and '×' and '÷' are interchanged? 111 – 1 + 36 ÷ 2 × 12 = ?

(a) 144
(b) 160
(c) 120
(d) 106

Answer: (d)

2. Adesh, Rinki, Narendra, Priya, Kiara, Sahil, and Lakshmi are sitting around a circular table, facing the centre (but not necessarily in the same order). Kiara sits third to the left of Sahil. Rinki sits to the immediate right of Priya, who sits with Sahil. Adesh sits second to the right of Lakshmi. Who is sitting to the immediate left of Adesh?

(a) Narendra
(b) Rinki
(c) Kiara
(d) Sahil

Answer: (c)

3. FH 61 is related to JL 69 in a certain way. In the same way, QS 76 is related to UW 84. To which of the following is LN 46 related, following the same logic?

(a) PR 54
(b) NK 56
(c) CG 51
(d) HU 52

Answer: (a)

5. In a certain code language, 'EVIL' is coded as '5731' and 'BEAD' is coded as '4816'.What is the code for 'E' in the given code language?

(a) 5
(b) 8
(c) 1
(d) 3

Answer: (c)

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

15 ÷ 15 – 30 + 225 × 25 = ?

(a) 426
(b) 246
(c) 236
(d) 146

Answer: (b)

9. Seven friends - M, N, O, P, Q, R, and S - are sitting around a circular table, facing the centre (but not necessarily in the same order). O is sitting third to the right of S. N is sitting second to the right of O. Q is an immediate neighbour of both M and S. P is an immediate neighbour of both O and N. Who is sitting to the immediate right of R?

(a) O
(b) N
(c) M
(d) S

Answer: (d)

10. In a certain code language, 'GOAT' is coded as '2684' and 'OPEN' is coded as '3598'.What is the code for 'O' in the given code language?

(a) 5
(b) 3
(c) 6
(d) 8

Answer: (d)

12. In a certain code language, 'FEEDING' is coded as 'ECBDJPJ' and 'SURFACE' is coded as 'RSOFBEH'. How will 'MIGRATE' be coded in the same language?

(a) LGDRBVH
(b) LHDRBUH
(c) LGCRCUI
(d) LGERBVG

Answer: (a)

13. 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.)

(6, 24, 36) (8, 11, 25)

(a) (18, 2, 47)
(b) (2, 14, 20)
(c) (5, 19, 30)
(d) (15, 23, 34)

Answer: (c)

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

CEH, FHK, IKN, LNQ, ?

(a) NPS
(b) OQT
(c) MOP
(d) PRU

Answer: (b)

16. KRAV is related to GNWR in a certain way based on the English alphabetical order. In the same way, UBKF is related to QXGB. To which of the following is IPYT related, following the same logic?

(a) PELU
(b) LUPE
(c) ELUP
(d) ELPU

Answer: (c)

17. 12 is related to 139 following a certain logic. Following the same logic, 17 is related to 284. To which ofthe following is 18 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) 324
(b) 309
(c) 312
(d) 319

Answer: (d)

18. What should come in place of the question mark (?) in the following series?

12, 18, 36, 90, 252, ?

(a) 738
(b) 876
(c) 800
(d) 789

Answer: (a)

General Awareness

1. In December 2023, who became the first women Chief of Central Industrial Security Force (CISF) in India?

(a) Archana Ramasundaram
(b) Vimla Mehra
(c) Nina Singh
(d) Rashmi Shukla

Answer: (c)

2. The autobiography, 'An Autobiography' by Jawaharlal Nehru is also known as _____.

(a) My Idea of Education
(b) The Accidental Prime Minister
(c) Toward Freedom
(d) The Unfinished Innings

Answer: (c)

3. In which of the following states is the groundnut fair, 'Kadalekayi Parishe' celebrated on the last Monday of the Karthika month of the Hindu calendar?

(a) Kerala
(b) Tamil Nadu
(c) Madhya Pradesh
(d) Karnataka

Answer: (d)

4. The earthquakes that are generated due to the explosion of chemical or nuclear devices are known as:

(a) Collapse earthquakes
(b) Explosion earthquakes
(c) Tectonic earthquakes
(d) Reservoir-induced earthquakes

Answer: (b)

5. Which of the following gases is generally used to flush bags of chips by the manufacturers?

(a) Compressed air
(b) Oxygen
(c) Carbon dioxide
(d) Nitrogen

Answer: (d)

6. In the year 1940, the national games were hosted which of the following cities?

(a) Lahore
(b) Lucknow
(c) Patiala
(d) Bombay

Answer: (d)

7. Who among the following was the founder of 'Satnami movement' in the central India?

(a) Ghasidas
(b) Narayan Guru
(c) Saint Haridas
(d) Jyoti Rao Phule

Answer: (a)

8. What does a budget deficit indicate?

(a) The government is saving for future projects
(b) The government is not allocating enough funds for public services
(c) Government revenue exceeds government spending
(d) Government spending exceeds government revenue

Answer: (d)

9. In which of the following years was the state of Golconda finally annexed into the Mughal empire?

(a) 1697
(b) 1687
(c) 1685
(d) 1690

Answer: (b)

10. Palkigundu Minor Rock Edicts of Ashoka are located in _____.

(a) Telangana
(b) Tamil Nadu
(c) Karnataka
(d) Maharashtra

Answer: (c)

11. The Great Granary was one of the largest granaries in the _____.

(a) Egyptian Civilization
(b) Mesopotamian Civilization
(c) Harappan Civilization
(d) Mayan Civilization

Answer: (c)

12. Who among the following Indian dancers was hon ed with the Padma Vibhushan in 1971, who was also known as the father of modern Indian danc

(a) Pandit Durga Lal
(b) Uday Shankar
(c) Kelucharan
(d) Pandit Birju Maharaj

Answer: (b)

13. As on February 2024, Nitish Kumar is the 9 th time Chief Minister of which state?

(a) Odisha
(b) Chattisgarh
(c) Bihar
(d) Jharkhand

Answer: (c)

14. In the 1974 edition of the Guinness Book of Records, which playback singer was mentioned as the most recorded artist in human history?

(a) Pulapaka Susheela
(b) Lata Mangeshkar
(c) KS Chithra
(d) Alka Yagnik

Answer: (b)

15. What is the female literacy rate in India, as per the 2011 census?

(a) 66.44%
(b) 64.66%
(c) 65.46%
(d) 65.64%

Answer: (c)

16. Forward Bloc was founded in 1939-40 by which of the following leaders?

(a) Subhash Chandra Bose
(b) Rash Behari Bose
(c) Jawahar Lal Nehru
(d) Chittaranjan Das

Answer: (a)

17. Dandiya Raas is a famous dance form of which state?

(a) Punjab
(b) Uttar Pradesh
(c) Chhattisgarh
(d) Gujarat

Answer: (d)

18. Which of the following is/are the highest judiciary [illegible]ndia?

(a) District Courts
(b) Supreme Court
(c) High Courts
(d) Parliament

Answer: (b)

19. The Mayurbhanj District in Odisha is a part of which Biosphere Reserve from the following?

(a) Dehang Debang
(b) Similipal
(c) Pachmarhi
(d) Nokrek

Answer: (b)

20. As per Ministry of Road Transport and Highways, what is the total length of National Highways in India as of November 2022?

(a) 1,85,633 kilometres
(b) 1,45,897 kilometres
(c) 1,86,908 kilometres
(d) 1,44,634 kilometres

Answer: (d)

21. Which of the following neighbouring countries of India is most populous?

(a) Bangladesh
(b) Afghanistan
(c) Bhutan
(d) Pakistan

Answer: (d)

22. Who among the following athletes was conferred with the Arjuna Award, 2021 by President Ram Nath Kovind?

(a) Dutee Chand
(b) Arpinder Singh
(c) Tajinder Pal Singh Toor
(d) Swapna Barman

Answer: (b)

23. Which of the following is the federal feature of the Indian Constitution?

(a) Bicameralism
(b) Integrated Judiciary
(c) Single Citizenship
(d) All India Service

Answer: (a)

24. When a sailor jumps out of a rowing boat, the bo moves backwards. This represents:

(a) the First law of motion
(b) the Third law of motion
(c) rectilinear motion
(d) the Second law of motion

Answer: (a)

25. When the body is deprived of energy from food, which of the following tissues is used to feed on its own?

(a) Nervous tissue
(b) Collenchyma tissue
(c) Epithelial tissue
(d) Adipose tissue

Answer: (d)

English Language and Comprehension

1. Select the most appropriate synonym of the underlined word in the given sentence. A lot of social work is hindered due to corrupt politicians.

(a) Obstructed
(b) Collided
(c) Helped
(d) Abided

Answer: (a)

4. Based on the context of the given sentence, select the most appropriate idiom to fill in the blank.

Siri was feeling _____ after receiving praise from her professor for completing the project ahead of schedule.

(a) under the weather
(b) in the dark
(c) in the same boat
(d) on top of the world

Answer: (d)

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

My sister is allergic with peanuts, so be cautious when preparing her meal.

(a) so be cautious
(b) when preparing her meal.
(c) allergic with peanuts
(d) My sister is

Answer: (c)

6. Select the most appropriate ANTONYM of the word in brackets to fill in the blank. The mountain peak offers a breathtaking view, a striking contrast to the _____(peculiar) scenery below.

(a) beautiful
(b) ordinary
(c) abnormal
(d) odd

Answer: (b)

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

(a) Majestic
(b) Ordinary
(c) Modest
(d) Humble

Answer: (a)

8. Select the most appropriate meaning of the underlined idiom.

The poet had to draw on his fancy to write all his sonnets.

(a) use his clothes
(b) use his memory
(c) use his imagination
(d) use his money

Answer: (c)

9. Select the most appropriate ANTONYM of the word 'opacity' in the given sentence.

The diminishing and deteriorating visibility in winter leads to the revival of accident cases on the highway.

(a) visibility
(b) diminishing
(c) revival
(d) deteriorating

Answer: (a)

10. Select the option that rectifies the INCORRECTLY spelt word in the given sentence.

She tried not to embarras her friend by bringing up the awkward incident at the party.

(a) embarress
(b) emberrass
(c) embarass
(d) embarrass

Answer: (d)

12. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. Our team lost the game / only because of / a mistake / with one of our players.

(a) Our team lost the game
(b) with one of our players
(c) only because of
(d) a mistake

Answer: (b)

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

Ramgopal is having a very big house in Mumbai.

(a) having
(b) have
(c) has
(d) were having

Answer: (c)

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

Her presentation was both informative and _____.

(a) entertainer
(b) entertain
(c) entertainingly
(d) entertaining

Answer: (d)

15. Select the most appropriate article to fill in the blank. Select 'no article' if no article is required. The doctor asked the patient to have _____ MRI scan of his brain.

(a) an
(b) a
(c) no article
(d) the

Answer: (a)

16. In the following sentence the underlined part contains as error. Alternatives to the underlined part are given as options. Select the correct alternative. They had a least celebration on her birthday.

(a) less
(b) most less
(c) little
(d) lesser

Answer: (c)

17. Select the option that can be used as a one-word substitute for the given phrase. A person who does not believe in the institution of marriage

(a) Nihilist
(b) Misogamist
(c) Masochist
(d) Misogynist

Answer: (b)

19. Select the INCORRECTLY spelt word.

(a) Unnecessary
(b) Argument
(c) Misinterpret
(d) Exagerate

Answer: (d)

20. Select the INCORRECTLY spelt word.

A) Occasion
B) Privilege
C) Bizzare
D) Definitely

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

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.
>
> Speaking is a powerful tool (1)_____ human communication. It allows us to convey thoughts, emotions and ideas to others. Effective speaking (2)_____ not only the words we choose but also our tone, body language and overall presentation. Public speaking, in particular, can be (3)_____ a skill and an art, enabling individuals to inspire, educate and persuade audiences. (4)_____ it is a casual conversation with a friend or a formal presentation to a large group, the ability to express (5)_____ clearly and confidently through speaking is a valuable skill that can greatly impact our personal and professional lives.

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

(a) at
(b) on
(c) for
(d) with

Answer: (c)

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

(a) involves
(b) involve
(c) involving
(d) involved

Answer: (a)

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

(a) and
(b) both
(c) until
(d) though

Answer: (b)

24. Select the most appropriate option to fill in blank number 4.
    (a) Neither
    (b) Whereas
    (c) Because
    (d) Whether

    Answer: (d)

25. Select the most appropriate option to fill in blank number 5.
    (a) itself
    (b) ourselves
    (c) themselves
    (d) herself

    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	**(a)**	2	**(d)**	4	**(d)**	5	**(a)**	7	**(c)**	8	**(a)**
10	**(d)**	11	**(d)**	12	**(b)**	14	**(a)**	17	**(c)**	18	**(a)**
20	**(a)**										

Reasoning Ability and Problem Solving

1	**(d)**	2	**(c)**	3	**(a)**	5	**(c)**	8	**(b)**	9	**(d)**
10	**(d)**	12	**(a)**	13	**(c)**	14	**(b)**	16	**(c)**	17	**(d)**
18	**(a)**										

General Awareness

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

English Language and Comprehension

1	**(a)**	4	**(d)**	5	**(c)**	6	**(b)**	7	**(a)**	8	**(c)**
9	**(a)**	10	**(d)**	12	**(b)**	13	**(c)**	14	**(d)**	15	**(a)**
16	**(c)**	17	**(b)**	19	**(d)**	20	**(a)**	21	**(c)**	22	**(a)**
23	**(b)**	24	**(d)**	[illegible]	**(b)**						