PREVIOUS YEAR PAPER

SSC MTS 2024 — 12 November 2024, Shift 1

SSC MTS & Havaldar · 12 November 2024 · 9:00 AM - 11:00 AM

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

Left out of the original paper: 21 (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 12 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-2024-12-nov-shift-1/

Numerical and Mathematical Ability

2. A man buys 15 identical articles for a total of ₹15. If he sells each of them for ₹1.32, then his profit percentage is:

(a) 8%
(b) 50%
(c) 23%
(d) 32%

Answer: (d)

3. A vehicle moves at 65 km/h for 4 hours before slowing down to 52 km/h for the next 2.5 hours. Calculate the average speed.

(a) 61.25 km/h
(b) 55 km/h
(c) 60 km/h
(d) 58.5 km/h

Answer: (c)

6. When a number is first increased by 18% and then decreased by 18%, the change in the number is _____.

(a) 3.24 % decrease
(b) 0%
(c) 3.24% increase
(d) 32.4% increase

Answer: (a)

7. I walk at a speed of 10 km/h and reach the destination in 2 hours. If I increase my speed by 5 km/h, how early would I reach my destination?

(a) 50 min
(b) 30 min
(c) 20 min
(d) 40 min

Answer: (d)

8. In an office having 160 staff members, 40% are females and the remaining are males. The average weight of females is 58 kg and that of males is 63 kg. Find the average weight of all staff members.

(a) 58 kg
(b) 68 kg
(c) 79 kg
(d) 61 kg

Answer: (d)

9. What sum (in ₹) will earn a simple interest of ₹240 in 4 years at 20% per year rate of interest?

(a) 450
(b) 600
(c) 150
(d) 300

Answer: (d)

11. The average age of a man and his son is 48 years. The ratio of their ages is 5 : 3. What is the son's age?

(a) 35 years
(b) 36 years
(c) 38 years
(d) 34 years

Answer: (b)

12. Find the simple interest (in ₹) on ₹2500 a sum borrowed at 4% per year rate of interest for 6 years.

(a) 540
(b) 600
(c) 640
(d) 560

Answer: (b)

13. A printer with a marked price of ₹9,000 is offered on successive discounts of 30%, 20%, and 15%. Identify the printer's selling price.

(a) ₹4,264
(b) ₹4,250
(c) ₹4,284
(d) ₹4,274

Answer: (c)

14. A person lent a sum of ₹30,000 on simple interest for 12 years, with an interest rate of 8% per annum for the first 4 years, 10% per annum for the next 3 years, and 15% per annum for last 5 years. How much interest (in ₹) will he earn at the end of 12 years?

(a) 38000
(b) 41100
(c) 40200
(d) 40800

Answer: (b)

15. The average of seven consecutive natural numbers is 56. The greatest number among them is:

(a) 58
(b) 59
(c) 61
(d) 60

Answer: (b)

17. The average score of 12 girls in a test was 16.5 and that of 18 boys in the same test was 16. The average score of girls and boys taken together in the same test was:

(a) 16.2
(b) 16.4
(c) 16.7
(d) 16.1

Answer: (a)

18. What is the radius of the largest right circular cone that can be cut out from a cube of edge 8.4 cm ?

(a) 4.1 cm
(b) 4.2 cm
(c) 2.2 cm
(d) 2.1 cm

Answer: (b)

Reasoning Ability and Problem Solving

2. 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). B is sitting second to the left of C. Only two people are sitting between B and D. D is an immediate neighbour of C. A is sitting third to the right of F. E is sitting to the immediate left of G. What is the position of E with respect to B?

(a) To the immediate right
(b) Third to the right
(c) To theimmediate left
(d) Second to the left

Answer: (d)

4. The second number in the given number pairs is obtained by performing certain mathematical operation(s) on the first number. Select the pair in which the numbers are related in the same way as are the numbers of the given pairs. (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 /deleting /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.)

11, 88 14, 112

(a) 16, 128

(b) 28, 226

(c) 24, 196

(d) 19, 151

Answer: (a)

5. In a certain code language, 'you are a good friend' is coded as 'es an pz fd mq' and 'his friend is very kind' is coded as 'ck mq pn ag sb'. How is 'friend' coded in the given language?

(a) fd

(b) mq

(c) es

(d) ck

Answer: (b)

6. In a certain code language, 'MOTH' is coded as '25 and 'TOME' is coded as '1453'. What is the code for 'E' in that language?

(a) 1

(b) 4

(c) 3

(d) 5

Answer: (c)

7. 13 is related to 103 following a certain logic. Following the same logic, 9 is related to 71. To which of the following is 15 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) 119

(b) 117

(c) 109

(d) 112

Answer: (a)

9. OJNI is related to GBFA in a certain way based on the English alphabetical order. In the same way, QLPK is related to IDHC. To which of the following is VQUP related, following the same logic?

(a) NIMH
(b) NIHM
(c) INHM
(d) INMH

Answer: (a)

10. In a code language, 'ROASTER' is coded as '96' and 'GUM' is coded as '41'. How will 'ARTIST' be coded in the same language?

(a) 88
(b) 77
(c) 82
(d) 87

Answer: (d)

12. Which two numbers should be interchanged to make the given equation correct? (12÷ 3) × 18 - 2× 4 + 42÷ 6 = 69 (Note: Interchange should be done of entire number and not individual digits of a given number)

(a) 3 and 6
(b) 18 and 12
(c) 3 and 4
(d) 2 and 6

Answer: (d)

13. What should come in place of the questio(?) in the following series? 3, 7, 15, 31, 63, ?

(a) 177
(b) 127
(c) 576
(d) 168

Answer: (b)

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

29 × 841 ÷ 87 + 37 – 59 = ?

(a) 52
(b) 25
(c) 65
(d) 55

Answer: (b)

17. 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: No soap is a lotion. No lotion is a conditioner.

Conclusions:
(I) No soap is a conditioner.
(II) Some conditioners are lotions.

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

Answer: (a)

18. What should come in place of the question mark (?) in the given series based on the English alphabetical order? AEH, DHK, GKN, JNQ, ?

(a) NRU
(b) MQT
(c) MQX
(d) PQT

Answer: (b)

19. Six persons – L, M, N, O, P and Q – are sitting around a circular table facing the centre, but not necessarily in the same order. O is sitting second to the left of Q. P is not an immediate neighbour of Q. M is sitting second to the right of L. N is sitting at the immediate right of Q. Who is an immediate neighbour of both, L and N?

(a) M
(b) O
(c) P
(d) Q

Answer: (c)

General Awareness

1. Which of these state governments has implemented PESA act in November 2022?

(a) Uttar Pradesh
(b) Punjab
(c) Madhya Pradesh
(d) Rajasthan

Answer: (c)

2. The national animal of Nepal is:

(a) snow leopard

(b) cow

(c) camel

(d) tiger

Answer: (b)

3. The cold subarctic climate region possesses forest lands having conifers as main vegetation. These forest lands are known as:

(a) Mangrove

(b) Savanna

(c) Taiga

(d) Tundra

Answer: (c)

4. With reference to medieval history, consider the following statements.
1. The founder of the Chola dynasty called the 'Imperial Cholas' was Vijayalaya (9th century AD).
2. One of the important dynasties which ruled in northern India was Gurjara-Pratiharas.
3. Palas ruled in western India and Rashtrakutas ruled in southern India in the early years (750 -1000). Which of the given statement(s) is/are correct?

(a) 1 and 2 only

(b) 1 and 3 only

(c) 2 only

(d) 1 only

Answer: (a)

5. Which of the following statements is/are true for the Religious Festivals in India? 1.Losar festival is majorly celebrated by Buddhist community of India. 2.Navroz festival is majorly celebrated by the Parsi community of India. 3.Saga Dawa is majorly celebrated by the Muslim community of India.

(a) Only 1

(b) Both 1 and 2

(c) Only 2

(d) Both 2 and 3

Answer: (b)

6. Birju Maharaj is related to which of the following classical dance forms?

(a) Kathakali

(b) Kathak

(c) Garba

(d) Bharatanatyam

Answer: (b)

7. Which of the following peaks is NOT located in India?

(a) Guru Shikar
(b) Nanda Devi
(c) Dhaulagiri
(d) Mahendragiri

Answer: (c)

8. In which year did John Dalton present his atomic theory, the second part of which states that all atoms of a particular element are equal?

(a) 1808
(b) 1811
(c) 1825
(d) 1800

Answer: (a)

9. Padma Bhushan awardee Mogubai Kurdikar was associated with which of the following music styles?

(a) Hindustani Classical music
(b) Theatre music
(c) Jazz music
(d) Folk music

Answer: (a)

10. Who among the following elect(s) the presiding cer of the Vidhan Sabha in India?

(a) Members of Vidhan Parishad
(b) President
(c) Members of Vidhan Sabha
(d) Governor

Answer: (c)

12. Which of the following is an informal group consisting of 4 to 10 individuals who seek loans against mutual guarantee?

(a) Rural cooperatives
(b) Self-help group
(c) Grameen model bank
(d) Joint liability group

Answer: (d)

13. Who has been appointed as the new Chief of the Special Protection Group (SPG) by the centre in November 2023?

(a) Rakesh Asthana
(b) Ashok Kumar Mishra
(c) Anil Kumar Dhasmana
(d) Alok Sharma

Answer: (d)

14. Which state in India hosted the 77 th edition of the Santosh Trophy?
    (a) Arunanchal Pradesh
    (b) Madhya Pradesh
    (c) Himanchal Pradesh
    (d) Uttar Pradesh
    Answer: (a)

15. Which of the following vitamins includes cobalt as an essential component?
    (a) Vitamin B12
    (b) Vitamin A
    (c) Vitamin E
    (d) Vitamin D
    Answer: (a)

16. Who among the following was the first woman President of the Indian National Congress?
    (a) Sarojini Naidu
    (b) Annie Besant
    (c) Sucheta Kriplani
    (d) Aruna Asaf Ali
    Answer: (b)

17. _____ was awarded, Padma Shri in 1970 for his c ribution to the field of Kuchipudi dance.
    (a) Mushtaq Husain Khan
    (b) Sthanam NarasimhaRao
    (c) V Satyanarayana Sarma
    (d) Dwaram Venkataswami Naidu
    Answer: (c)

18. The construction of Mehrangarh fort of Jodhpur was initiated during the reign of which ruler?
    (a) Maharawal Jaswant Singh
    (b) Rao Bika
    (c) Rao Jodha
    (d) Sawai Man Singh
    Answer: (c)

19. The major carbohydrate of milk is
    (a) lactose
    (b) Fructose
    (c) starch
    (d) maltose
    Answer: (a)

20. Who became the Nawab of Bengal after the death of Alivardi Khan in the year 1756?
(a) Shuja-Ud-Daulah
(b) Siraj-Ud-Daulah
(c) Saadat Ali Khan
(d) Wazir Ali
Answer: (b)

21. Which of the following iron and steel plants is located in Jharkhand?
(a) Durgapur
(b) Salem
(c) Vijay Nagar
(d) Bokaro
Answer: (d)

22. What is a 'double fault' in tennis?
(a) Serving two faults in a row
(b) A serve that goes out of bounds
(c) A fault called by the linesman
(d) A serve that hits the net and goes into the correct service box
Answer: (a)

23. The 11 th Fundamental Duty to the Indian Constitu was added in the year _____ by the 86 th Constitutional Amendment Act.
(a) 2001
(b) 2002
(c) 2000
(d) 2004
Answer: (b)

24. Which of the following Census recorded negative population growth in India?
(a) 1971
(b) 1991
(c) 2011
(d) 1921
Answer: (d)

25. Kharavela was an important ruler of which dynasty?
(a) Sunga Dynasty
(b) Vardhan Dynasty
(c) Gupta Dynasty
(d) Chedi Dynasty
Answer: (d)

English Language and Comprehension

1. Rectify the sentence by selecting the correct spelling from the options. After the storm passed, the sun emarged from behind the clouds.

(a) emergad
(b) amergad
(c) emerged
(d) amarged

Answer: (c)

2. Select the most appropriate option to fill in the blank. The assignment was _____ early in the morning.

(a) do
(b) doe
(c) dew
(d) due

Answer: (d)

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

The way Sonam performs live on stage can be called the _____ one.

(a) perfectable
(b) more perfect
(c) most perfect
(d) mostly perfect

Answer: (c)

4. Select the most appropriate ANTONYM of the given word:

Grapple

(a) Wrestle
(b) Grumble
(c) Clasp
(d) Release

Answer: (d)

5. Select the meaningful and correctly spelt word from the given options to fill in the blank.

The oceans cover more than 70% of the Earth's surface, making them the largest _____ on the planet.

(a) habitat
(b) hybrid
(c) habitude
(d) habit

Answer: (a)

6. Select the INCORRECTLY spelt word.

(a) Bureaucracy
(b) Lieutanant
(c) Rendezvous
(d) Augment

Answer: (b)

7. Select the most appropriate synonym of the underlined word in the given sentence. He is a complete novice when it comes to driving a car.

(a) Expert
(b) Zealous
(c) Amateur
(d) Swindler

Answer: (c)

8. Select the most appropriate synonym of the underlined word in the following sentence. Don't fight over such a trivial issue.

(a) Complex
(b) Controversial
(c) Insignificant
(d) Tricky

Answer: (c)

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

Smart watches are the last gadgets used by younger generations.

(a) latest
(b) the latest
(c) later
(d) the later

Answer: (b)

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

Straight from the horse's mouth

(a) Directly from the person involved
(b) Directly eating from the provider
(c) Giving no expression at all
(d) Rumours begin at home

Answer: (a)

12. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

My sister performed / brilliant / in the competition / yesterday.

(a) in the competition
(b) brilliant
(c) yesterday
(d) my sister performed

Answer: (b)

14. Select the most appropriate ANTONYM for the underlined word.

They want to bifurcate the states.

(a) Divide
(b) Combine
(c) Examine
(d) Support

Answer: (b)

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

My brother plays the guitar _____ than I do.

(a) best
(b) good
(c) well
(d) better

Answer: (d)

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

He is an intelligent person who always thinks before he _____.

(a) acted
(b) acts
(c) acting
(d) act

Answer: (b)

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:
>
> In the realm of literature, words are the (1) _____ of creation, and authors are the (2) _____ of meaning. They skillfully weave stories with (3) _____ narratives that can (4) _____ the depths of human emotion. A well-crafted novel can (5) _____ readers into its world, making them forget the passage of time.

21. Select the most appropriate option to fill in blank number 1.
    (a) mundane
    (b) isolate
    (c) tools
    (d) convey
    Answer: (c)

22. Select the most appropriate option to fill in blank number 2.
    (a) direction
    (b) keepers
    (c) coward
    (d) vibrators
    Answer: (b)

23. Select the most appropriate option to fill in blank number 3.
    (a) vivid
    (b) defrost
    (c) mundane
    (d) convey
    Answer: (a)

24. Select the most appropriate option to fill in blank number 4.
    (a) teacher
    (b) sailor
    (c) banker
    (d) pilot
    Answer: (d)

25. Select the most appropriate option to fill in blank number 5.
    (a) immerse
    (b) isolate
    (c) install
    (d) repel
    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	**(d)**	3	**(c)**	6	**(a)**	7	**(d)**	8	**(d)**	9	**(d)**
11	**(b)**	12	**(b)**	13	**(c)**	14	**(b)**	15	**(b)**	17	**(a)**
18	**(b)**										

Reasoning Ability and Problem Solving

2	**(d)**	4	**(a)**	5	**(b)**	6	**(c)**	7	**(a)**	9	**(a)**
10	**(d)**	12	**(d)**	13	**(b)**	16	**(b)**	17	**(a)**	18	**(b)**
19	**(c)**										

General Awareness

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

English Language and Comprehension

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