PREVIOUS YEAR PAPER

SSC MTS 2024 — 4 November 2024, Shift 2

SSC MTS & Havaldar · 4 November 2024 · 12:30 PM - 2:30 PM

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

Left out of the original paper: 14 (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, 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-2024-4-nov-shift-2/

Numerical and Mathematical Ability

1. If a sum doubles itself on certain rate of simple interest in 10 years, then at the same rate of interest, the sum will become 4 times itself in:

(a) 30 years
(b) 40 years
(c) 20 years
(d) 25 years

Answer: (a)

3. During the first year, the population of a village increased by 5%, and during the second year, it reduced by 6%. At the end of the second year, its population was 35,532. What was the population at the beginning of the first year?

(a) 36,000
(b) 38,000
(c) 37,568
(d) 34,567

Answer: (a)

5. In a school, class 11 th has three sections A, B and C. There are 30 students in Section A, 36 students in Section B, and 40 students in Section C. The average marks scored by the students in Section A, Section B and Section C in the Mathematics annual exam are 90, 85 and 70, respectively. Find the average marks scored by the whole class, correct to two places of decimals.

(a) 58.07
(b) 80.57
(c) 80.75
(d) 58.70

Answer: (c)

6. A car's radiator should contain a solution of 52% antifreeze. A motorist has 8 litres of 40% antifreeze. How many litres (rounded off to 2 decimal places) of 95% antifreeze liquid should he add to his solution to produce a 52% antifreeze?

(a) 4.26
(b) 3.45
(c) 2.23
(d) 1.92

Answer: (c)

8. A man on a tour travels first 120 km at 48 km/h and the next 120 km at 80 km/h. The average speed for the first 240 km of the tour is:

(a) 64 km/h
(b) 72 km/h
(c) 66 km/h
(d) 60 km/h

Answer: (d)

9. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 69 kg and 35 kg is:

(a) 51.8
(b) 49.8
(c) 48.8
(d) 50.8

Answer: (b)

10. Determine the smallest number which wh[illegible]ed by 20, 15 and 30 leaves remainder 6 in each case.

(a) 56
(b) 66
(c) 96
(d) 36

Answer: (b)

12. Find the simple interest (in ₹) on ₹3000 as a sum borrowed at 5% per year rate of interest for 3 years.

(a) 490
(b) 410
(c) 450
(d) 390

Answer: (c)

14. A shopkeeper mixes three types of seeds worth ₹240, ₹258 and ₹252 in 3 : 1 : 2. Average cost of the mixture is:

(a) ₹245
(b) ₹247
(c) ₹248
(d) ₹246

Answer: (b)

15.

If the volume of a hemisphere is 155232 cm^3, then half of the radius (in cm) of the hemisphere is: (Use $\pi = \frac{22}{7}$)

(a) 21
(b) 18
(c) 42
(d) 12

Q.16 Find the simple interest (in ₹) on ₹3000 as a sum borrowed at 3% per year rate of interest for 5 years. 1. 390

2. 410

3. 450

4. 490

Answer: (a)

16. Find the simple interest (in ₹) on ₹3000 as a sum borrowed at 3% per year rate of interest for 5 years.

(a) 390
(b) 410
(c) 450
(d) 490

Answer: (c)

18. The resistance of a wire is directly proportional to its length and inversely proportional to the square of its radius. Two wires of the same material have the same resistance and their radii are in the ratio of 7 : 8. The corresponding lengths of the wires are 147 cm and L cm, respectively. Find the value of L.

(a) 158
(b) 192
(c) 168
(d) 128

Answer: (b)

19. A trader gains 44% after selling an item at 25% discount on the printed price. What is the ratio of the cost price and the printed price of the item?

(a) 48 : 35
(b) 25 : 48
(c) 35 : 48
(d) 48 : 25

Answer: (b)

20. A cyclist covers a distance of 2.5 km in 4 minutes 10 seconds. How long will he take to cover a distance of 12 km at the same speed?

(a) 12 minutes
(b) 20 minutes
(c) 11 minutes
(d) 10 minutes

Answer: (b)

Reasoning Ability and Problem Solving

1. 11 is related to 106 following a certain logic. Following the same logic, 15 is related to 146. To which of the following is 19 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 – Operation 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) 189
(b) 178
(c) 186
(d) 177

Answer: (c)

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

DBF, HFJ, LJN, PNR, ?

(a) QOS
(b) SQU
(c) TRV
(d) FDH

Answer: (c)

4. What will come in the place of the question mark (?) in the following equation, if '+' and '×' are interchanged and '÷' and '−' are interchanged? 35 ÷ 4 + 6 − 3 × 12 = ?

(a) 39
(b) 35
(c) 28
(d) 29

Answer: (a)

5. In a code language, 'STATION' is coded as '18' and 'JOURNALS' is coded as '20'. How will 'GOLDMEDAL' be coded in the same language?

(a) 72
(b) 28
(c) 22
(d) 44

Answer: (c)

6. What will come in the place of the question mark (?) in the following equation if '+' and '−' are interchanged and '×' and '÷' are interchanged? 12 × 3 − 5 ÷ 4 + 11 = ?

(a) 14
(b) 13
(c) 11
(d) 12

Answer: (b)

10. In a certain code language, 'SNOW' is written as '358' and 'BLEW' is written as '1293'. How is 'W' coded in the given language?

(a) 8
(b) 1
(c) 9
(d) 3

Answer: (d)

12. In a certain code language, 'system is backbone' is written as 'sdf wer tce' and 'backbone is you' is coded as 'tce kpo wer'. What is the meaning of the code 'sdf' in the given language?

(a) you
(b) system
(c) is
(d) backbone

Answer: (b)

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

41, 48, 55, 62, 69, ?

(a) 75
(b) 77
(c) 76
(d) 74

Answer: (c)

15. BMGC is related to GRDZ in a certain way based on the English alphabetical order. In the same way, LWAW is related to QBXT. To which of the following is VGUQ related, following the same logic?

(a) ALRN
(b) BKRO
(c) ZKSM
(d) BMQN

Answer: (a)

16. Select the set in which the numbers are related in the same way as are the numbers of the given 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.)

(284, 238) (271, 225)

(a) (212, 166)
(b) (252, 196)
(c) (297, 246)
(d) (185, 135)

Answer: (a)

17. A, B, C, D, E, F and G are sitting around a circular table facing the centre (but not necessarily in the same order). Only 3 people sit between C and E when counted from the right of C. Only 1 person sits between E and G when counted from the left of E. F sits immediate to the left of D. Only 2 people sit between B and F when counted from the left of B. How many people sit between G and B when counted from the left of G?

(a) 1
(b) 3
(c) 4
(d) 0

Answer: (d)

18. 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: All roses are lilies. No rose is a sunflower. Conclusions:
(I) All lilies are roses.
(II) No lily is a sunflower.

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

Answer: (d)

19. MK14 is related to QO19 in a certain way. In the same way, XV31 is related to BZ36. To which of the following is RP52 related, following the same logic?

(a) ED43
(b) VT57
(c) RT90
(d) ST58

Answer: (b)

20. E, F, G, H, L, K, and M are sitting around a circular table, facing the centre (but not necessarily in the same order). K sits to the immediate left of F. Only two people sit between K and L when counted from the left of K. Only two people sit between M and E when counted from the right of E. E sits to the immediate right of H. H is not an immediate neighbour of F. Who is sitting to the immediate right of G?

(a) H
(b) M
(c) F
(d) L

Answer: (d)

General Awareness

1. How many central banks can a country have?

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

Answer: (b)

2. The Uttarakhand Public Services (Horizontal Reservation for Women) Bill, 2022 provides how much reservation to women?

(a) 30%
(b) 20%
(c) 45%
(d) 25%

Answer: (a)

3. Which virus is responsible for causing common cold?

(a) Rhinovirus
(b) Coronavirus
(c) Hepatitis A
(d) Influenza

Answer: (a)

4. Akbar's first expedition towards Deccan was sent to Ahmednagar under the leadership of Prince Murad and _____.

(a) Man Singh
(b) Adham Khan
(c) Birbal
(d) Abdul Rahim Khan-i-Khanan

Answer: (d)

5. Which Rigvedic God is considered an intermedia[illegible]etween God and men?

(a) Yama
(b) Agni
(c) Varuna
(d) Indra

Answer: (b)

6. What is the rate of movement of tectonic plate boundaries?

(a) 2-5 km per year
(b) 1-2 inch per year
(c) 1-2 m per year
(d) 1-2 mm per year

Answer: (b)

7. Theravada is known as the official religion of which of the following neighbouring countries of India?

(a) Afghanistan
(b) Sri Lanka
(c) Pakistan
(d) Bangladesh

Answer: (b)

8. Which element is known for having the highest electronegativity on the periodic table?

(a) Carbon
(b) Fluorine
(c) Hydrogen
(d) Oxygen

Answer: (b)

9. Padma Subramanyam, Alarmel Valli, Yamini Krishnamurthy and Anita Ratnam are distinguished practitioners of _____.

(a) Kathak
(b) Odissi
(c) Bharatanatyam
(d) Kuchipudi

Answer: (c)

10. What does the term 'deuce' signify in tennis?

(a) A tied score at 40-40
(b) A fault in serving
(c) The final point in a game
(d) A let

Answer: (a)

11. After the decisive battle of Plassey of 1757, who a[illegible]ng the following was declared as the Nawab of Bengal by the British?

(a) Mir Qasim
(b) Murshid Quli Khan
(c) Mir Jafar Ali Khan
(d) Mansur Ali Khan

Answer: (c)

13. Which of the following dance awards is organised by the National Institute of Indian Classical Dance?

(a) Sanatan Sangeet Sanskriti
(b) Bharata Shastra Nritya Praveena
(c) Natya Shiromani National
(d) Abhinandan Saroja

Answer: (d)

14. In the year 1930, the Salt Satyagraha was led by who among the following?

(a) Sardar Vallabhbhai Patel
(b) Subhas Chandra Bose
(c) Jawaharlal Nehru
(d) Mahatma Gandhi

Answer: (d)

15. In which state is the Kaiga Nuclear Power Project located?

(a) Assam
(b) Gujarat
(c) Karnataka
(d) Bihar

Answer: (c)

16. Which of the following Biosphere reserves is located in Uttarakhand?

(a) Nanda Devi
(b) Nilgiri
(c) Dihang-Dibang
(d) Panchmarhi

Answer: (a)

17. Which of the following countries won its 8 th Men's Asian Cup cricket title in 2023?

(a) Sri Lanka
(b) Pakistan
(c) Bangladesh
(d) India

Answer: (d)

18. A regal ceremony in the form of Beating Retreat c nony on the evening of _____ marks the end of Republic Day celebrations.

(a) 27 th January
(b) 28 th January
(c) 29 th January
(d) 26 th January

Answer: (c)

19. Ranjani Hebbar was associated with which of the following fields?

(a) Folk music
(b) Hindustani music
(c) Bhajan
(d) Carnatic music

Answer: (d)

20. In which of the following years was the 11 th Fundamental Duty added in the Indian Constitution through the 86 th Amendment Act?

(a) 2002
(b) 1982
(c) 1986
(d) 1976

Answer: (a)

21. In February 2023, who was appointed as the CEO of NITI Aayog?
    (a) Monali Jaiswal
    (b) Iyer Parmeshwaran
    (c) Geetika Srivastava
    (d) BVR Subrahmanyam
    Answer: (d)

22. At which of the following places is the tomb of Sher Shah Suri situated?
    (a) Bargaon
    (b) Rajgir
    (c) Sasaram
    (d) Sultanpur
    Answer: (c)

23. Which of the following is written by Mulk Raj Anand?
    (a) The White Tiger
    (b) The Blue Umbrella
    (c) Untouchable
    (d) The Guide
    Answer: (c)

24. Which of the following is NOT mentioned in 'Liber as per the Preamble of the Indian Constitution?
    (a) Thought
    (b) Trust and hope
    (c) Faith and worship
    (d) Expression
    Answer: (b)

25. Based on the number of chambers in the heart, select the odd one from the following.
    (a) Chameleon
    (b) Turtle
    (c) Frog
    (d) Crocodile
    Answer: (d)

English Language and Comprehension

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

The humble surroundings of our company _____ creativity amongst the newly recruited employees.

(a) inspired
(b) connected
(c) banished
(d) filed

Answer: (a)

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

The fresh air / in the garden relaxes / the minds of children as / the environment is cleaner.

(a) the minds of children as
(b) the environment is cleaner
(c) The fresh air
(d) in the garden relaxes

Answer: (b)

4. Select the most appropriate word opposite in meaning (ANTONYM) to the underlined word in the given sentence.

Aunty Hema gave us her candid opinion on the skit w erformed on Children's Day.

(a) prejudiced
(b) strong
(c) frank
(d) intelligent

Answer: (a)

5. Your sibling accidentally broke your favourite vase. Which of the following idioms might you use to tell them not to worry about it?

(a) "Bite the bullet!"
(b) "Shallow brooks are noisy"
(c) "Don't cry over spilt milk!"
(d) "You're walking on air!"

Answer: (c)

6. Select the most appropriate ANTONYM of the given word.

Fetid

(a) Fatal
(b) Fatigued
(c) False
(d) Fragrant

Answer: (d)

7. Select the most appropriate ANTONYM of the given word.

Show

(a) Display
(b) Exhibit
(c) Register
(d) Cover

Answer: (d)

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

He hardness ever / complains about / his workload because / he enjoys his job.

(a) complains about
(b) he enjoys his job
(c) He hardness ever
(d) his workload because

Answer: (c)

9. Select the INCORRECTLY spelt word.

A) Exaggerate
B) Accommodate
C) Exuberant
D) Perservere

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

Answer: (a)

10. Select the most appropriate synonym of the underlined word in the given sentence.

I have a vague memory of meeting her many years ago.

(a) Symbolic
(b) Hazy
(c) evident
(d) pellucid

Answer: (b)

11. Select the option that will improve the underlined part of the given sentence.

We agree that Professor Revanth is very knowledgeable, but we do not like attending his classes because he always keeps blowing the trumpet .

(a) the blow of a trumpet
(b) sounding the trumpet
(c) blowing his own trumpet
(d) the sound of the trumpet

Answer: (c)

12. Select the most appropriate ANTONYM of the underlined word in the given sentence.

The late secretary of our society was known for his ruthless treatment of all the security personnel of the society.

(a) Compassionate
(b) Startled
(c) Brutal
(d) Fragile

Answer: (a)

13. Select the option that corrects the error in the given sentence. She performed bad in the exam.

(a) bad
(b) goodly
(c) badly
(d) good

Answer: (c)

14. Select the INCORRECTLY spelt word in the given sentence. Applicants who are younger and prettier than you will continue appliying.

(a) prettier
(b) applicants
(c) younger
(d) appliying

Answer: (d)

15. Select the option that will correct the underlined part of the given sentence. In case no correction is required, select No correction needed.

Naveen is as tall as Rocky.

(a) the tallest
(b) tall as
(c) taller than
(d) No correction needed

Answer: (d)

16. Select the option that can be used as a one-word substitute for the given group of words. The act of talking to oneself, often audibly

(a) Dialogue
(b) Solitude
(c) Monologue
(d) Soliloquy

Answer: (d)

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

How can someone / walk this farthest / just for / peace of mind?

(a) just for
(b) walk this farthest
(c) peace of mind
(d) How can someone

Answer: (b)

18. Parts of the following sentence have been given as options. Select the option that contains an error. An eucalyptus tree in my backyard acts as a landmark for many to reach my house.

(a) An eucalyptus tree
(b) acts as a landmark for many
(c) to reach my house
(d) in my backyard

Answer: (a)

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

The teacher asked us to _____ our essays for spelling and grammar errors.

(a) advise
(b) recognise
(c) revolve
(d) revise

Answer: (d)

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

I dream of a country where even the least talented person has the _____ to earn a living.

(a) priority
(b) landmark
(c) opportunity
(d) admit

Answer: (c)

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. Students want (1)_____ as the primary outcome of higher education. Hence, practical experience becomes (2)_____ valuable to a student's degree. Indian students are highly (3)_____ at theoretical learning but lack practical training. This (4)_____ an issue for decades in the Indian job market. In order to address this (5)_____ issue, state governments have to take a lead. The AP government in the past three years have made efforts to bridge this long-lasting gap between theoretical and practical learning of the students.

21. Select the most appropriate option to fill in blank 1.
    (a) appoint
    (b) appointed
    (c) employability
    (d) employable

    Answer: (c)

22. Select the most appropriate option to fill in blank 2.
    (a) hardly
    (b) voicelessly
    (c) abruptly
    (d) equally

    Answer: (d)

23. Select the most appropriate option to fill in blank
    (a) relaxed
    (b) spiritual
    (c) competitive
    (d) spirit

    Answer: (c)

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

    Answer: (c)

25. Select the most appropriate option to fill in blank 5.
    (a) insignificant
    (b) momentary
    (c) appetite
    (d) perennial

    Answer: (d)

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)**	3	**(a)**	5	**(c)**	6	**(c)**	8	**(d)**	9	**(b)**
10	**(b)**	12	**(c)**	14	**(b)**	15	**(a)**	16	**(c)**	18	**(b)**
19	**(b)**	20	**(b)**								

Reasoning Ability and Problem Solving

1	**(c)**	3	**(c)**	4	**(a)**	5	**(c)**	6	**(b)**	10	**(d)**
12	**(b)**	13	**(c)**	15	**(a)**	16	**(a)**	17	**(d)**	18	**(d)**
19	**(b)**	20	**(d)**								

General Awareness

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

English Language and Comprehension

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