PREVIOUS YEAR PAPER

SSC MTS 2024 — 30 October 2024, Shift 3

SSC MTS & Havaldar · 30 October 2024 · 4:00 PM - 5:30 PM

73 of the paper's 89 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 30 October 2024, 4:00 PM - 5:30 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-2024-30-oct-shift-3/

Numerical and Mathematical Ability

1. The average monthly pocket money of Ram and Shyam is ₹2,460, Shyam and Manohar is ₹2,380 and Manohar and Ram is ₹2,760. Find the monthly pocket money of Ram alone.

(a) ₹2,048
(b) ₹2,840
(c) ₹2,408
(d) ₹2,480

Answer: (b)

3. Three bells toll at intervals of 12, 15 and 18 minutes, respectively. If all the three bells toll together at 8 a.m., when will they toll together next?

(a) 8 a.m.
(b) 11 a.m.
(c) 3 p.m.
(d) 10 a.m.

Answer: (b)

4. A bag contains coins of 1 rupee, 0.5 rupee and 0.25 rupee in the ratio of 5: 6: 8. If the total amount of money in the bag is ₹420,find the number of coins of type1 rupee, 0.5 rupee and 0.25 rupee are:

(a) 212,232,312
(b) 210,252,336
(c) 216,252,292
(d) 208,272,352

Answer: (b)

7. Rahul sells an article at 8% above its cost price. If he had bought it at 5% less than what he had paid for it and sold it at ₹8 less, he would have gained 12%. Find the cost price of the article.

(a) ₹650
(b) ₹550
(c) ₹700
(d) ₹500

Answer: (d)

8. If the price of a commodity is increased by 10% and 20% successively, what is the net percentage increase/decrease in its price, if it is further decreased by 25%?

(a) 1% Decrease
(b) 5% Decrease
(c) 5% Increase
(d) 1% Increase

Answer: (a)

10. Find the simple interest (in ₹) on ₹2000 as a sum borrowed at 8% per year rate of interest for 6 years.

(a) 1000
(b) 960
(c) 900
(d) 920

Answer: (b)

12. If the average of nine numbers is 360, then what is the sum of the nine numbers?

(a) 3420
(b) 1620
(c) 40
(d) 3240

Answer: (d)

13. A money lender lent out ₹40,000 in two parts, o[illegible]t 7% p.a. and the other at 6% p.a.. If the total annual simple interest on the amount is ₹2[illegible] wh[illegible]s the amount of money lent at 7%?

(a) ₹21,000
(b) ₹18,000
(c) ₹15,000
(d) ₹26,000

Answer: (c)

14. What sum (in ₹) will earn a simple interest of ₹240 in 2 years at 4% per year rate of interest?

(a) 3000
(b) 1500
(c) 4000
(d) 6000

Answer: (a)

15. Two sections A and B of class VIII consist of 42 and 38 students, respectively. If the average marks of section A is 400 and that of section B is 320, find the average marks of the whole class.

(a) 360
(b) 576
(c) 362
(d) 310

Answer: (c)

17. By selling an article for ₹19.5, a dealer makes a profit of 25%. By how much should he increase his selling price (in ₹) so as to make a profit of 50%?

(a) 6.9
(b) 5.9
(c) 4.9
(d) 3.9

Answer: (d)

20. In Class I there are 12 students of average age 20 years, and in Class II there are 16 students of average age 23 years. What is the average age (approximately) of both the classes?

(a) 17.6 years
(b) 20.7 years
(c) 21.7 years
(d) 15.3 years

Answer: (c)

Reasoning Ability and Problem Solving

1. POEN is related to LKAJ in a certain way based on the English alphabetical order. In the same way, RADIUS is related to NWZEQO. To which of the following is LOGIC related, following the same logic?

(a) HKCEY
(b) HKCFY
(c) GKCEY
(d) HGCFY

Answer: (a)

2. LJPN is related to SQWU in a certain way based on the English alphabetical order. In the same way, JHNL is related to QOUS. To which of the following is OMSQ related, following the same logic?

(a) VTZX
(b) TVZX
(c) TVXZ
(d) VTXZ

Answer: (a)

4. 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 doors are locks. Some doors are keys.

Conclusions:
(I) Some locks are keys.
(II) Some keys are doors.

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

Answer: (d)

6. In a certain code language, 'I like music' is written as 'mo ro go' and 'can I go' is writtenas 'ho mo bo'. How is 'I' writtenin the given language?

(a) go
(b) bo
(c) mo
(d) ho

Answer: (c)

7. Which two numbers should be interchanged to ma[illegible]he following equation correct? 9 × 2 −(150 ÷ 5) + 24 + (32÷ 8) × 6 + 15 = 71 (Note: Interchang[illegible]ould be done of the entire number and not individual digits of a given number.)

(a) 5 and 6
(b) 2 and 6
(c) 9 and 6
(d) 5 and 15

Answer: (b)

9. Seven colleagues (L, M, N, O, P, Q, R) are sitting around a circular meeting table, all facing towards the centre (but not necessarily in the same order). O is sitting to the immediate right of L, while P is sitting to the immediate left of L. Only Q is sitting between R and N, and another one of R's immediate neighbours is M, who is also an immediate neighbour of O. Which two of the following are not immediate neighbours?

(a) Q and N
(b) P and N
(c) O and R
(d) R and M

Answer: (c)

10. 2 is related to 9 following a certain logic. Following the same logic, 4 is related to 65. To which of the following is 8 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) 517
(b) 515
(c) 511
(d) 513

Answer: (d)

11. In a certain code language, 'you may laugh' is coded as 'CD EJ KO' and 'may I go' is coded as 'TK PO EJ'. How is 'may' coded in that code language?

(a) EJ
(b) PO
(c) CD
(d) TK

Answer: (a)

12. Select the number from among the given options that can replace the question mark (?) in the following series. 5, 16, 60, 236, 940, ?

(a) 678
(b) 3756
(c) 4678
(d) 6899

Answer: (b)

13. Lalla, Bablu, Mahesh, Abdul, Arif, Surekha and Kiku are sitting around a circular table, facing the centre (but not necessarily in the same order). Lalla sits 2nd to the right of Bablu. Mahesh sits 3 rd to the left of Abdul. Arif sits to the immediate left of Abdul. Surekha is an immediate neighbour of Bablu. Kiku is not an immediate neighbour of Surekha. Who sits third to the right of Abdul?

(a) Lalla
(b) Kiku
(c) Surekha
(d) Bablu

Answer: (a)

14. What will come in the place of '?' in the following equation, if '+' and '–' are interchanged and '×' and '÷' are interchanged? 102 – 36 + 59 ÷ 4 × 2 = ?

(a) 10
(b) 5
(c) 20
(d) 15

Answer: (c)

15. In a certain code language, 'GET' is coded as ‘50’ and 'CAB' is coded as ‘76’. How will 'RUN' be coded in the same language?

(a) 28
(b) 29
(c) 30
(d) 31

Answer: (b)

16. 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 laptops are desktops. No desktop is a computer.

Conclusions:
(I) No laptop is a computer.
(II) Some computers are desktops.

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

Answer: (c)

17. In a code language, 'XCMY' is coded as ‘AHPD’ a' PGVK' is coded as ‘SLYP’. How will 'JOCH' be coded in that language?

(a) PSDN
(b) NRFK
(c) MTFM
(d) LTDL

Answer: (c)

18. 11 is related to 57 following a certain logic. Following the same logic, 14 is related to 72. To which of the following is 17 related, following the same logic?

(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.)

(a) 89
(b) 85
(c) 83
(d) 87

Answer: (d)

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

TQQ, PRM, LSI, HTE, ?

(a) DUA
(b) EUB
(c) DUB
(d) EUA

Answer: (a)

General Awareness

1. Which state in India has the highest population density as per the 2011 census?

(a) Tamil Nadu
(b) Uttar Pradesh
(c) West Bengal
(d) Bihar

Answer: (d)

2. Who among the following started the Khilafat Movement against the British government?

(a) Syed Nabiullah and MA Ansari
(b) Shaukat Ali and Mohammad Ali
(c) Syed Raza Ali and Muhammad Ali Jinnah
(d) Maulana Mazharul Haque and Mian Abdul A

Answer: (b)

3. Which of the following country's official language is Sinhala?

(a) Maldives
(b) Sri Lanka
(c) Myanmar
(d) Nepal

Answer: (b)

4. Who among the following Dance Gurus got Padma Vibhushan in the year 2000?

(a) Ileana Citarist
(b) Kelucharan Mohapatra
(c) Bipin Singh
(d) Birju Maharaj

Answer: (b)

5. Who among the following authors wrote ‘Kamayani’, ‘Dhruvswamini’, ‘Kankal’, ‘Titli’, ‘Skandagupta’, ‘Lahar’ and ‘Mamta’?

(a) Jaishankar Prasad
(b) Suryakant Tripathi Nirala
(c) Bhisham Sahni
(d) Krishna Sobti

Answer: (a)

6. There shall be a/an _____ with the Prime Minister at the head to aid and advise the President in the exercise of his functions.

(a) Council of Ministers
(b) Attorney General for India
(c) Parliament
(d) Council of States

Answer: (a)

8. In which game are terms like break, cannons, cue, potting, and kissed commonly used?

(a) Golf
(b) Polo
(c) Billiards
(d) Chess

Answer: (c)

9. Who was sent as an envoy to China during the ti of Muhammad bin Tughluq?

(a) Ziauddin Barani
(b) Al-Biruni
(c) Hasan Nizami
(d) Ibn Battuta

Answer: (d)

10. Who has been appointed as the 'UPI Safety Ambassador' by the National Payments Corporation of India (NPCI) to enhance safety awareness on digital payment platforms in November 2023?

(a) Taapsee Pannu
(b) Ayushmann Khurrana
(c) Pankaj Tripathi
(d) Rajkummar Rao

Answer: (c)

11. Which Indian city hosted the Women's Asian Hockey Champions Trophy event in 2023?

(a) Ranchi
(b) Bhubaneshwar
(c) Bhopal
(d) New Delhi

Answer: (a)

12. Who is known to have revived Bharatnatyam dance form in its modern version today?

(a) Mallika Sarabhai
(b) Rukmini Devi
(c) T Balasaraswati
(d) Yamini Krishnamurthy

Answer: (b)

13. Megasthenes was an ambassador who was sent to the court of which Indian ruler by the Greek ruler, Seleucus Nicator?

(a) Ashoka
(b) Chandragupta
(c) Bindusara
(d) Pushyamitra Shunga

Answer: (b)

14. Who among the following founded the Servants of India Society in 1905 with the help of MG Ranade?

(a) Gopal Krishna Gokhale
(b) Mahatma Gandhi
(c) Bal Gangadhar Tilak
(d) Jawaharlal Nehru

Answer: (a)

15. On 25 August 2023, which State Government ex[illegible]nded its ongoing 'Breakfast Scheme' for students of classes 1 to 5, studying in 31,0[illegible]ove[illegible]ent schools across the State?

(a) Jharkhand
(b) Tamil Nadu
(c) Karnataka
(d) Goa

Answer: (b)

16. Which chemical compound is commonly utilised as a preservative in tomato sauce?

(a) Green Tea Extract
(b) Carnosic Acid
(c) Vinegar
(d) Sodium Benzoate

Answer: (d)

17. The Guindy National Park is located in which state?

(a) Rajasthan
(b) Tamil Nadu
(c) Madhya Pradesh
(d) Maharashtra

Answer: (b)

18. In which Indian state do we find caves named after elephant statues found in it?
(a) Rajasthan
(b) Karnataka
(c) Maharashtra
(d) Odisha
Answer: (c)

19. Which country was a major importer of dye intermediates and castor oils from India in 2022-23?
(a) Japan
(b) Belgium
(c) China
(d) Brazil
Answer: (c)

20. The Krebs cycle of aerobic respiration is carried out within which of the following cell organelles?
(a) Lysosome
(b) Spirogyra
(c) Nucleus
(d) Mitochondria
Answer: (d)

21. When the pH value of soils is more than 7.5, they considered to be:
(a) slightly acidic soils
(b) alkaline soils
(c) strongly acidic soils
(d) neutral soils
Answer: (b)

22. The cultural sport of Maharashtra, 'dahi-handi' is associated with which festival?
(a) Krishna Janmashtami
(b) Ramanavmi
(c) Holi
(d) Ganesh Chaturthi
Answer: (a)

23. Which of the following dance performances begins with the Kelikottu?
(a) Kathakali
(b) Odissi
(c) Kathak
(d) Bharatanatyam
Answer: (a)

24. The budget of the central government is known as the _____.
    (a) union budget
    (b) annual exposed budget
    (c) state budget
    (d) revised budget
    Answer: (a)

25. What writ means 'We Command'?
    (a) Certiorari
    (b) Habeas Corpus
    (c) Mandamus
    (d) Prohibition
    Answer: (c)

English Language and Comprehension

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

The company decided / to phase up its / outdated technology / and embrace innovation.
    (a) and embrace innovation.
    (b) The company decided
    (c) outdated technology
    (d) to phase up its
    Answer: (d)

3. Select the most appropriate synonym of the given word.

Fabricate
    (a) Construct
    (b) Garments
    (c) Fascinate
    (d) Floral
    Answer: (a)

4. Select the most appropriate synonym of the given word. Fantastic
    (a) Fanciful
    (b) Practical
    (c) Graceful
    (d) Delicate
    Answer: (a)

5. Select the most appropriate synonym of the underlined word in the following sentence. You must adhere to the rules of this place.

(a) Comply
(b) Strict
(c) Remember
(d) Aware

Answer: (a)

6. Select the most appropriate adjective to fill in the blank.

After coming from a long journey he said, “It feels so _____ to be home”.

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

Answer: (b)

7. Select the option that can be used as a one-word substitute for the given group of words. A word, number , or other figure that looks the same when viewed (or rotated) upside down .

(a) Anadiplosis
(b) Alliteration
(c) Anagram
(d) Ambigram

Answer: (d)

9. Select the INCORRECTLY spelt word...

(a) Vigilante
(b) Masquerade
(c) Squadroun
(d) Caricature

Answer: (c)

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

Piquant

(a) Bitter
(b) Bland
(c) Delicious
(d) Delectable

Answer: (b)

11. Select the INCORRECTLY spelt word.

(a) Choronology
(b) Competent
(c) Soliloquy
(d) Protein

Answer: (a)

12. The following sentence has been split into four segments. Identify the segment that contains an error in the usage of indefinite articles. We have invited / our friends / for a / dinner.

(a) dinner
(b) We have invited
(c) our friends
(d) for a

Answer: (d)

13. Select the idiom that can substitute the bracketed word segment correctly and complete the given sentence meaningfully. The negotiations reached a point where both parties had to (confront the consequences of their actions) and make tough decisions.

(a) face the music
(b) break a leg
(c) cut corners
(d) get cold feet

Answer: (a)

14. Parts of the following sentence have be[illegible]ive[illegible]s options. Select the option that contains a grammatical error. If you don't find any error, [illegible]lo error' as your answer.

Mohan is still confused about his higher studies.

(a) No error
(b) Mohan is still
(c) his higher studies
(d) confused about

Answer: (a)

15. Select the INCORRECTLY spelt word..

(a) Postuer
(b) Gesture
(c) Culture
(d) Lecture

Answer: (a)

16. Select the most appropriate meaning of the underlined idiom in the given sentence. My old car was pressed into service as an emergency vehicle for my ailing grandmother.

(a) Cared for by old people

(b) Asking for special maintenance

(c) To use for a particular purpose when a special need occurs.

(d) Used to take someone to the hospital

Answer: (c)

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

Ramya would gladly help Manya if you had asked her.

(a) is to gladly help

(b) will gladly help

(c) was to have gladly helped

(d) would have gladly helped

Answer: (d)

20. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. The manager had / thrown up the / drunk people sitting / inside his office premises.

(a) drunk people sitting

(b) inside his office premises

(c) thrown up the

(d) The manager had

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.
>
> Man, it would seem, has (1)_____ from arboreal apes. They lived a happy life in tropical forests, eating coconuts when they were hungry, and throwing them at each other when they were not. They were (2)_____ occupied in gymnastics and acquired an (3)_____ which to us is truly (4)_____. But after some millions of years of this arboreal paradise, their numbers increased to the point where the supply of coconuts was no longer (5)_____.

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

(a) descended

(b) ascended

(c) recommended

(d) extended

Answer: (a)

22. Select the most appropriate option to fill in blank number 2.
    (a) perpetually
    (b) professionally
    (c) bisectionally
    (d) conspiratorially

    Answer: (a)

23. Select the most appropriate option to fill in blank number 3.
    (a) civility
    (b) density
    (c) agility
    (d) variability

    Answer: (c)

24. Select the most appropriate option to fill in blank number 4.
    (a) disappointing
    (b) boring
    (c) astonishing
    (d) frightening

    Answer: (c)

25. Select the most appropriate option to fill in blank number 5.
    (a) deficient
    (b) delicate
    (c) adequate
    (d) consecrate

    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

1	**(b)**	3	**(b)**	4	**(b)**	7	**(d)**	8	**(a)**	10	**(b)**
12	**(d)**	13	**(c)**	14	**(a)**	15	**(c)**	17	**(d)**	20	**(c)**

Reasoning Ability and Problem Solving

1	**(a)**	2	**(a)**	4	**(d)**	6	**(c)**	7	**(b)**	9	**(c)**
10	**(d)**	11	**(a)**	12	**(b)**	13	**(a)**	14	**(c)**	15	**(b)**
16	**(c)**	17	**(c)**	18	**(d)**	20	**(a)**				

General Awareness

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

English Language and Comprehension

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