PREVIOUS YEAR PAPER

SSC MTS 2024 — 12 November 2024, Shift 2

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

74 of the paper's 89 questions · marks per question not printed on the response sheet

Left out of the original paper: 15 (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, 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-2024-12-nov-shift-2/

Numerical and Mathematical Ability

1. Find the number of lead balls of diameter 4 cm each that can be made from a sphere of diameter 24 cm.

(a) 108

(b) 432

(c) 216

(d) 144

Answer: (c)

3.

The table below shows the production of different types of scooters X, Y, Z and T by a company during four months.

Type of Scooter/Month	January	February	March	April
X	45	55	28	35
Y	75	47	58	26
Z	86	27	73	51
T	74	32	29	69
Total	**280**	**161**	**188**	**181**

In which month did the company produce the minimum number of scooters?

(a) April
(b) March
(c) February
(d) January

Q.4 A man rows downstream 27 km and upstream 18 km, taking one hour each time. What is the speed of the current? 1. 9 km/h

2. 1.5 km/h

3. 4.5 km/h

4. 6 km/h

Answer: (c)

4. A man rows downstream 27 km and upstream 18 km, taking one hour each time. What is the speed of the current?

(a) 9 km/h
(b) 1.5 km/h
(c) 4.5 km/h
(d) 6 km/h

Answer: (c)

5. The HCF of 28,35 and 42 is:

(a) 7

(b) 3

(c) 5

(d) 11

Answer: (a)

6. A shopkeeper marked the price of a commodity at ₹37,000 more than the actual cost. If the shopkeeper allowed a 15% discount, it would fetch ₹ 7,500 more than if he allowed a 20% discount. Find the cost price.

(a) ₹1,31,000

(b) ₹1,13,000

(c) ₹1,50,000

(d) ₹1,23,000

Answer: (b)

11. Find the simple interest (in ₹) on ₹2500 as a sum borrowed at 3% per year rate of interest for 2 years.

(a) 110

(b) 150

(c) 190

(d) 90

Answer: (b)

13. If 5 litres of vinegar containing 20% of water is mixed with 10 litres of vinegar containing 5% of water, then what percentage of the new vinegar mixture is water?

(a) 15%

(b) 10%

(c) 11.11%

(d) 20%

Answer: (b)

14. 16 women can finish a task in 20 days and 20 men take 32 days to finish the same task. How many days will 8 women and 16 men take to finish the same task?

(a) 10

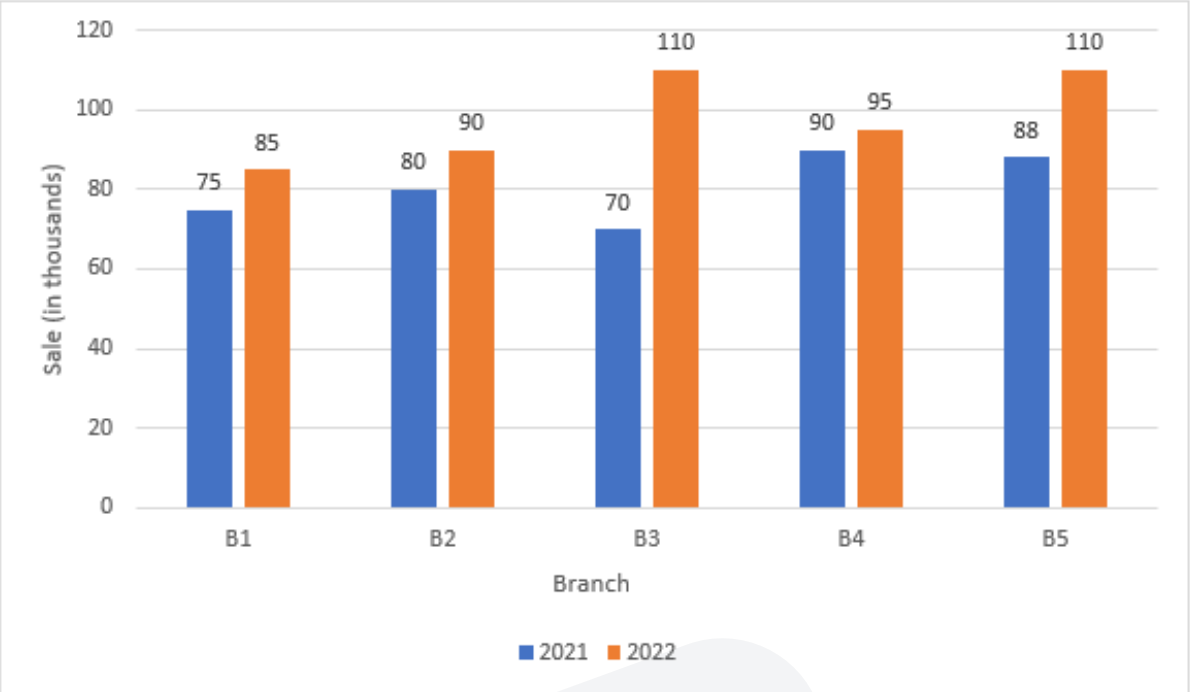
(b) 16

(c) 32

(d) 20

Answer: (d)

15. Study the given bar graph and answer the question that follows. The given bar graph shows the sale of toys (in thousands) from five branches of a manufacturer for two consecutive years, 2021 and 2022.



What is the difference between the average sales (in thousands) of all the five branches in 2021 and 2022?

(a) 15.4

(b) 16.4

(c) 17.4

(d) 18.4

Q.16 Find the simple interest (in ₹) on ₹3000 as a sum borrowed at 6% per year rate of interest for 6 years. 1. 1020

2. 1120

3. 1080

4. 1040

Answer: (c)

16. Find the simple interest (in ₹) on ₹3000 as a sum borrowed at 6% per year rate of interest for 6 years.

(a) 1020

(b) 1120

(c) 1080

(d) 1040

Answer: (c)

17. The average age of a mother and her daughter is 42 years. The ratio of their ages is 9 : 5, respectively. Find the daughter's age (in years).

(a) 20
(b) 35
(c) 30
(d) 25

Answer: (c)

18. A solid sphere of radius 12 cm is melted and cast into small spherical balls, each of diameter 2.4 cm. Find the number of balls thus obtained.

(a) 1050
(b) 500
(c) 980
(d) 1000

Answer: (d)

19. A's income and expenditure are in the ratio 5 : 4. If his total savings are ₹56,000, what is his expenditure in ₹?

(a) 2,44,000
(b) 4,42,000
(c) 2,42,000
(d) 2,24,000

Answer: (d)

Reasoning Ability and Problem Sc

1. 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 bed is a chair. No chair is table.

Conclusions:
(I) No bed is a table.
(II) Some tables may be chairs.

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

Answer: (b)

2. Which two numbers should be interchanged to make the following equation correct?

(16÷ 4) × 6 + 26 −48 + 9× 8 = 154

(Note: Interchange should be done of the entire number and not individual digits of a given number.)

(a) 26 and 48
(b) 6 and 9
(c) 4 and 8
(d) 16 and 48

Answer: (d)

4. In a certain code language, 'please fill this' is written as 'km tu dk' and 'this is book' is written as 'dk pu sy'. How is 'this' written in the given language?

(a) tu
(b) py
(c) km
(d) dk

Answer: (d)

5. WGQA Is related to XHRB in a certain way based on the English alphabetical order. In the same way, HRBL is related to ISCM. To which of the following is GQAK related, following the same logic?

(a) HRKM
(b) HRBL
(c) HTBM
(d) HRBM

Answer: (b)

6. 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 cats are dogs. No cat is a horse. Conclusions: (I): No dog is a horse. (II): No horse is a cat.

(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: (a)

7. Select the number from among the given options that can replace the question mark (?) in the following series.

13, 26, 39, 52, 65, ?

(a) 78
(b) 79
(c) 77
(d) 80

Answer: (a)

8. In a certain code language, 'COAT' is coded as '3571' and 'PAIN' is coded as '4238'.What is the code for 'A' in the given code language?

(a) 3
(b) 7
(c) 8
(d) 2

Answer: (a)

9. A, B, C, D, E, F and G are sitting around a circular table facing the centre (but not necessarily in the same order). A sits second to the left of D, who is third to the left of E. C sits third to the right of G, who is not an immediate neighbour of E. B sits second to the right of G. What is the position of B with respect to C?

(a) Immediate right
(b) Immediate left
(c) Second to the left
(d) Second to the right

Answer: (b)

10. What should come in place of the question mark (?) in the given series based on the English alphabetical order? AAA, BCD, CEG, DGJ, ?

(a) EHN
(b) EIM
(c) FIK
(d) FGK

Answer: (b)

11. 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 third to the right of D. G is sitting second to the left of A. E is sitting to the immediate right of G. Only three people are sitting between E and C when counted from the left of E. C is not an immediate neighbour of A. The position of how many persons will remain unchanged except A if all the persons are arranged in the English alphabetical order in anti-clockwise direction, starting from A and keeping the position of A unchanged?

(a) None
(b) Three
(c) Two
(d) One

Answer: (d)

12. In a certain code language, 'BLAME' is coded as 'YOZNV' and 'GLAZE' is coded as 'TOZAV'. What is the code for 'PRAKASH' in the given code language?

(a) KJZPZHS
(b) KIZPZHS
(c) KIZPZHT
(d) KIZQZHS

Answer: (b)

13. What will come in the place of the question mark ('?') in the following equation, if '+' and '×' are interchanged and '÷' and '–' are interchanged? 18 × 72 – 3 ÷ 2 + 11 = ?

(a) 31
(b) 20
(c) 32
(d) 24

Answer: (b)

15. KINL is related to QOTR in a certain way based on the English alphabetical order. In the same way, NLQO is related to TRWU. To which of the following is PNSQ related, following the same logic?

(a) VTWY
(b) VTYW
(c) TVYW
(d) TVWY

Answer: (b)

17. In a certain code language, 'KIDS' is coded as '97&5' and 'DESK' is coded as 'R759'. What is the code for 'E' in the given code language?

(a) R
(b) 9
(c) 7
(d) 5

Answer: (a)

20. 9 is related to 37 following a certain log... Follo...g the same logic, 3 is related to 13. To which of the following is 8 related, following the sa...? (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) 29
(b) 35
(c) 33
(d) 31

Answer: (c)

General Awareness

1. Which element is located in Group 18 of the periodic table and is known for its lack of chemical reactivity?

(a) Helium
(b) Oxygen
(c) Fluorine
(d) Chlorine

Answer: (a)

2. Which of the following groups of organisms are more vulnerable to the acidification of ocean?

(a) Marine algae
(b) Marine reptiles
(c) Calcifying organisms
(d) Marine mammals

Answer: (c)

3. Who among the following Indian leaders was the first member to be elected to the British Parliament?

(a) Motilal Nehru
(b) Dadabhai Naoroji
(c) Bhikaji Cama
(d) Lala Hardayal

Answer: (b)

4. At which of the following places the written form of teachings of Jainism in which they are presently available, were written around 1500 years ago?

(a) Shravanabelagola
(b) Pataliputra
(c) Mathura
(d) Valabhi

Answer: (d)

5. The Talcher Thermal Power Station is located in which state?

(a) Andhra Pradesh
(b) Rajasthan
(c) Odisha
(d) Bihar

Answer: (c)

6. The SEWA Cooperative Bank was first initiated in _____ in the year _____.

(a) Varanasi; 1974
(b) Ahmedabad; 1984
(c) Ahmedabad; 1974
(d) Varanasi; 1984

Answer: (c)

7. In which city was the 141 st session of the International Olympic Committee (IOC) inaugurated in India?

(a) Chennai
(b) Prayagraj
(c) Mumbai
(d) Delhi

Answer: (c)

8. Which of the following is the zonal headquarter of North Eastern Railway?

(a) Hubli

(b) Kolkata

(c) Gorakhpur

(d) Allahabad

Answer: (c)

9. In which Indian city is the DY Patil Cricket Stadium located?

(a) Navi Mumbai

(b) Pune

(c) Nashik

(d) Aurangabad

Answer: (a)

10. Which Article of the Constitution of India deals with the composition of the Legislative Council?

(a) Article 171

(b) Article 168

(c) Article 181

(d) Article 169

Answer: (a)

11. The Kamakshi Saunsthan temple of Goa is crowne ith the _____ two-storied tower and with a golden Kalash perched on its Shikhar.

(a) hexagonal

(b) octagonal

(c) pentagonal

(d) circular

Answer: (b)

12. To remain healthy and disease free, taking a balanced diet is very important. A balanced diet is:

(a) a diet that contains adequate amount of protein and fat

(b) a diet that contains sufficient amount of all the nutrients that the human body needs to grow properly

(c) a diet that contains appreciable number of vitamins and minerals

(d) a diet that contains adequate amount of carbohydrates

Answer: (b)

13. In February 2023, which Indian-American was appointed as the CEO of YouTube?

(a) Satya Nadella

(b) Anjali Sud

(c) Vivek Ramaswamy

(d) Neal Mohan

Answer: (d)

14. During which of the following Prime Minsters' leadership were Fundamental Duties incorporated in the Indian Constitution?

(a) Lal Bahadur Shastri
(b) Atal Bihari Vajpai
(c) Jawahar Lal Nehru
(d) Indira Gandhi

Answer: (d)

15. Which of the following autobiographies is written by the former Indian Judge Leila Seth?

(a) Challenges of Governance: An Insider's View
(b) Justice for the Judge: An Autobiography
(c) In Pursuit of Justice: An Autobiography
(d) On Balance: An Autobiography

Answer: (d)

16. Who among the following signed the Treaty of Allahabad in August 1765 with the Nawab of Awadh and Shah Alam II, the Mughal Emperor?

(a) Robert Clive
(b) Warren Hastings
(c) William Bentick
(d) Earl Mountbatten

Answer: (a)

17. The title of 'Chief of the Merchants' or 'Malikut-T r' was conferred on Mahmud Gawan by which of the following Bahamani kings?

(a) Bahman Shah
(b) Humayun Shah
(c) Mohammad Shah
(d) NizamuddinAhmad III

Answer: (b)

18. In which year did Guru Indira PP Bora receive the Padma Shri Award?

(a) 2019
(b) 2018
(c) 2020
(d) 2021

Answer: (c)

19. Pradhan Mantri MUDRA Yojana (PMMY) is a scheme launched in 2015 for providing loans up to _____ lakh to the noncorporate, non-farm small/micro enterprises.

(a) 10
(b) 8
(c) 5
(d) 2

Answer: (a)

20. Indian classical singer, Kesarbai Kerkar belonged to which of the following gharanas?

(a) Agra gharana
(b) Jaipur-Atrauli gharana
(c) Delhi gharana
(d) Benaras gharana

Answer: (b)

22. The Ananda Pagoda is a famous festival of which neighbouring country of India?

(a) Myanmar
(b) Pakistan
(c) Maldives
(d) Afghanistan

Answer: (a)

23. Which of the following Indian classical dance forms was developed by Siddhendra Yogi?

(a) Kathak
(b) Dandiya
(c) Kuchipudi
(d) Kathakali

Answer: (c)

24. The president of which country was the chief gue t the Indian Republic Day Ceremony of 2023?

(a) Egypt
(b) Morocco
(c) Sudan
(d) Lebanon

Answer: (a)

25. Na onal Sickle Cell Anaemia Elimina on Programme, introduced in the Union Budget 2023, aims to eliminate sickle cell gene c transmission by the year _____.

(a) 2049
(b) 2047
(c) 2045
(d) 2040

Answer: (b)

English Language and Comprehension

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

I concur with the decision of our principal, when he says that students who display indiscipline should be dismissed from the institute irrespective of their academic achievements.

(a) credit
(b) differ
(c) promote
(d) coincide

Answer: (b)

2. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

My manager thanked the staff for there continued dedication and support.

(a) for they're continued
(b) No substitution required
(c) for there continuous
(d) for their continued

Answer: (d)

4. Select the INCORRECTLY spelt word..

(a) Taciturn
(b) Particulate
(c) Outsource
(d) Stubbal

Answer: (d)

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

After school, we / went home and / told our respective parents / off the incident.

(a) went home and
(b) told our respective parents
(c) After school, we
(d) off the incident

Answer: (d)

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

spontaneous

(a) scarce
(b) deliberate
(c) separate
(d) dirty

Answer: (b)

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

While the stock market experiences volatility, financial analysts _____ market trends and provide investment advice.

(a) monitored
(b) have monitored
(c) monitor
(d) were monitored

Answer: (c)

9. Select the grammatically correct sentence from the given options.

(a) Since yesterday, the policeman had been waiting for the woman to take a details of a case.
(b) Since yesterday, a policeman had been waiting for a woman to take the details of the case.
(c) Since yesterday, the policeman had been waiting for a woman to take a details of the case.
(d) Since yesterday, the policeman had been waiting for the woman to take the details of the case.

Answer: (d)

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

Ritu was still standing in the queue when the film was starting.

(a) film starts
(b) film started
(c) film had began
(d) film begins

Answer: (b)

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

I am thinking about colouring my _____.

(a) hare
(b) air
(c) hair
(d) heir

Answer: (c)

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

Regular physical exercise improves cardiovascular health, reducing the risk of heart disease and _____.

(a) strike
(b) stroke
(c) stock
(d) struck

Answer: (b)

14. Select the most appropriate synonym of the given word. Entangle

(a) Trap
(b) Engross
(c) Intrude
(d) Enlarge

Answer: (a)

15. Select the most appropriate idiom that can substitute the underlined segment in the given sentence.

After the long and tedious project, Sarah felt like she was at the limit of her patience.

(a) finishing line
(b) end of her rope
(c) tip of the iceberg
(d) crossroads

Answer: (b)

16. Select the most appropriate meaning of the given idiom. To look black

(a) To roll on ice
(b) To seem unfavourable
(c) To cry bitterly
(d) To give an approving expression

Answer: (b)

17. The following sentence has been split ir four ments. Identify the segment that contains a grammatical error. She speaks / so soft that / anyone / can hear her.

(a) hardly anyone
(b) can hear her
(c) She speaks
(d) so soft that

Answer: (d)

18. Select the correct spelling of the underlined word in the given sentence.

Sometimes, the nicknames of children, given to them by their loved ones in childhood, give them a true sense of embarresment, especially when they are called by those names in front of others.

(a) emberressment
(b) embrrassment
(c) embarrassment
(d) embarresmint

Answer: (c)

19. Select the most appropriate expression that can substitute the underlined words in the given sentence. The watchman tried every possible way to catch the thief of the hostel.

(a) arrived at the eleventh hour

(b) explored every avenue

(c) cut the cackle

(d) called it a day

Answer: (b)

20. In the following sentence the underlined part contains as error. Alternatives to the underlined part are given as options. Select the correct alternative. We never expected most from her.

(a) many

(b) more

(c) little

(d) much

Answer: (d)

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.
>
> Westminster Abbey's 1._____ was one of Edward the Confessor's greatest accomplishments as king of England from 1042 to 1066. Edward was King Ethelred's son and he had a lot of pressure as his father was known to be an incompetent ruler. The Dan drove Edward from England, and he lived in exile in Normandy. According to legend, Edward prom d that if he could make it back to his realm in safety, he would travel to St. Peter's in Rome. Upon h eturn and 2._____ in Winchester in 1042, he discovered that he could not abandon his subjects. was freed from his pledge by the Pope, but only if he established or 3._____ a monast di ed to St. Peter. As a result, Westminster Abbey was constructed in the Norman 4._____. He ed that London was not the 5._____ place to built the Minster. Hence, a location known as 'Westminster' was discovered to be to the west of the metropolis.

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

(a) configuration

(b) construction

(c) geometry

(d) arrangement

Answer: (b)

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

(a) personification

(b) inauguration

(c) dethronement

(d) coronation

Answer: (d)

23. Select the most appropriate option to fill in blank number 3.
    (a) decorate
    (b) renovation
    (c) update
    (d) fix

    Answer: (a)

24. Select the most appropriate option to fill in blank number 4.
    (a) designate
    (b) style
    (c) dub
    (d) label

    Answer: (b)

25. Select the most appropriate option to fill in blank number 5.
    (a) appropriate
    (b) allot
    (c) annex
    (d) seize

    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

1	**(c)**	3	**(c)**	4	**(c)**	5	**(a)**	6	**(b)**	11	**(b)**	13	**(b)**	14	**(d)**
15	**(c)**	16	**(c)**	17	**(c)**	18	**(d)**	19	**(d)**						

Reasoning Ability and Problem Solving

1	**(b)**	2	**(d)**	4	**(d)**	5	**(b)**	6	**(a)**	7	**(a)**	8	**(a)**	9	**(b)**
10	**(b)**	11	**(d)**	12	**(b)**	13	**(b)**	15	**(b)**	17	**(a)**	20	**(c)**		

General Awareness

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

English Language and Comprehension

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