PREVIOUS YEAR PAPER

SSC MTS 2024 — 5 November 2024, Shift 1

SSC MTS & Havaldar · 5 November 2024 · 9:00 AM - 11:00 AM

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 5 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-2024-5-nov-shift-1/

Numerical and Mathematical Ability

4. A class of 42 students took a Physics test. 18 students had an average score of 95. The other students had an average score of 73. What is the average score (rounded off to one decimal place) of the whole class?

(a) 79.6
(b) 86.1
(c) 90.7
(d) 82.4

Answer: (d)

5. The average of 8 numbers 127, 432, p, 89, q, 99, 84 and 76 is 221 and the numbers p and q are two-digit numbers. If the units digit of p is one less than that of q and tens digit of q is one less than that of p, then the sum of the digits of p is:

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

Answer: (d)

6. Three numbers are in the ratio 3 : 4 : 5 and their LCM is 2400. Their HCF is:

(a) 60
(b) 40
(c) 30
(d) 25

Answer: (b)

8. A person marks his goods x% above the cost price and allows a discount of 28% on the marked price. If his profit is 22.4%, then the value of x is:

(a) 50
(b) 80
(c) 30
(d) 70

Answer: (d)

10. Arman leaves ₹2,17,600 to be divided among four sons, three daughters and five nephews. If each daughter receives 3 times as much as each nephew and each son receives 5 times as much as each nephew, how much does each son receive?

(a) ₹18,200

(b) ₹32,000

(c) ₹36,000

(d) ₹25,600

Answer: (b)

11. The milk and water in two buckets P and Q are in the ratio 5 : 3 and 1 : 4, respectively. In what ratio are the liquids in both the buckets mixed to obtain a new mixture in a third bucket R containing 50% milk and 50% water?

(a) 7 : 9

(b) 4 : 7

(c) 7 :13

(d) 12 : 5

Answer: (d)

12. When the price of an article was reduced by 10% its sale increased by 60%. What was the net effect on the revenue?

(a) Decrease of 24%

(b) Increase of 44%

(c) Decrease of 44%

(d) Increase of 24%

Answer: (b)

15. Kumar took a loan from a bank at the rate of 9.5% per annum at simple interest. After 6 years he had to pay ₹3,705 as interest only for the period. The principal amount borrowed by him was:

(a) ₹2,100

(b) ₹5,800

(c) ₹8,200

(d) ₹6,500

Answer: (d)

16.

An athlete crosses 1950 m distance in 13 minutes. What is his speed in km/hr?

(a) 6

(b) 7

(c) 8

(d) 9

Answer: (d)

18. If the radius of a cylinder is decreased by 25% and the height is increased by 25% to form a new cylinder, what is the percentage decrease in new volume (rounded off to two digits after the decimal)?

(a) 27.5%

(b) 29.69%

(c) 40.2%

(d) 39.5%

Answer: (b)

19. Find the simple interest (in ₹) on ₹3500 as a sum borrowed at 6% per year rate of interest for 5 years.

(a) 1010

(b) 990

(c) 1090

(d) 1050

Answer: (d)

Reasoning Ability and Problem Solving

2. In a certain language, 'this college bag is expensive' is coded as 'br od hy jh pb' and 'your bag looks very heavy' is coded as 'mh sa tn dl od'. How is 'bag' coded in the given language?

(a) jh

(b) br

(c) od

(d) mh

Answer: (c)

3. In a certain code language, 'sold the painting' is written as 'ju ri gi' and 'directors sold business' is coded as 'hu fe ju'. How is 'sold' coded in that language?

(a) ju

(b) hu

(c) ri

(d) fe

Answer: (a)

4. 11 is related to 127 following a certain logic. Following the same logic, 8 is related to 70. To which ofthe following is 14 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 13 canbe performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3is not allowed.)

(a) 217

(b) 240

(c) 194

(d) 202

Answer: (d)

5. Read the given statement(s) 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 statement(s).

Statements: Some pillows are curtains. No curtain is a bedsheet.

Conclusions:
(I) All pillows can never be bedsheets.
(II) Some curtains are not pillows.

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

Answer: (c)

7. In the following number-pairs, the second number is obtained by applying certain mathematical operations to the first number. 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 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.)

18, 37 22, 45

(a) 24, 72
(b) 26, 53
(c) 25, 57
(d) 27, 59

Answer: (b)

8. Find the missing term in the following series: MM, LO, KQ, __, IU, HW.

(a) JS
(b) JP
(c) KS
(d) KP

Answer: (a)

10. A, C, F, E, B, U and P are sitting around a circular table facing away from the centre (but not necessarily in the same order). F is sitting third to the right of E. P is sitting third to the left of A. U is sitting third to the right of C. E is an immediate neighbour to the left of P. C is not an immediate neighbour of P. Who among the following is sitting third to the right of U?

(a) E
(b) P
(c) B
(d) A

Answer: (c)

12. What will come in the place of '?' in the following equation, if '+' and '–' are interchanged and '×' and '÷' are interchanged? 6 ÷ 3 × 2 + 1 – 2 = ?

(a) 7

(b) 5

(c) 3

(d) 10

Answer: (d)

13. In a certain code language, 'listen to music' is written as 'fd si lr' and 'you should listen' is writtenas 'lr ep wi'. How is 'listen' writtenin the given language?

(a) wi

(b) ep

(c) lr

(d) fd

Answer: (c)

14. 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: •Some mats are yolks. •Some toys are mats. Conclusions: (I)Some mats are jute. (II)Toy is a yolk.

(a) Both conclusions (I) and (II) follow

(b) Only conclusion (II) follows

(c) Neither conclusion (I) nor (II) follows

(d) Only conclusion (I) follows

Answer: (c)

15. In a certain code language, 'quip area flash' is coded as 'er to pg' and 'bacon quip bonus' is coded as 'to my te'. How is 'quip' coded in the given language?

(a) pg

(b) er

(c) to

(d) my

Answer: (c)

17. JK 3 is related to MH 6 in a certain way. In the same way, OD 11 is related to RA 14. To which of the following is RD 14 related, following the same logic?

(a) UB 19

(b) UA 14

(c) UZ 17

(d) UA 17

Answer: (d)

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

31 × 961 ÷ 155 – 73 + 54 = ?

(a) 24
(b) 22
(c) 44
(d) 42

Answer: (a)

19. MKQO is related to TRXV in a certain way based on the English alphabetical order. In the same way, KIOM is related to RPVT. To which of the following is HFLJ related, following the same logic?

(a) OMSQ
(b) OMQS
(c) MOQS
(d) MOSQ

Answer: (a)

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

6 ,7, 9, 13, 21, ?

(a) 40
(b) 38
(c) 37
(d) 39

Answer: (c)

General Awareness

1. As per National Multidimensional Poverty Index report 2023, what is the poverty rate of India (2019-21)?

(a) 20.89%
(b) 14.96%
(c) 20.61%
(d) 15.47%

Answer: (b)

2. Which of the following groups of plants are categorised as cryptogams?

(a) Gymnosperms and Angiosperms
(b) Pteridophyta and Angiosperms
(c) Thallophyta and Gymnosperms
(d) Bryophytes and Thallophyta

Answer: (d)

3. Which physical feature of India is known for its lateritic soil which supports plantation crops?

(a) Chhota Nagpur Pleateau

(b) Western Ghats

(c) The Himalayas

(d) Malabar Coast

Answer: (b)

4. Select the correct order of the following metals in terms of their increasing reactivities.

(a) Au, Cu, Mg and K

(b) K, Cu, Mg and Au

(c) K, Mg, Cu and Au

(d) Au, Mg, Cu and K

Answer: (a)

5.

Match the following and choose the correct option:

1 Multi-Party System	a) USA
2 Two Party system	b) China
3 Single Party system	c) India

(a) 1 - a, 2 - b, 3 - c

(b) 1 - c, 2 - b, 3 - a

(c) 1 - b, 2 - c, 3 - a

(d) 1 - c, 2 - a,3 - b

Q.6 Who among the following assumed the position of Central Vigilance Commissioner (CVC) in May 2023?

Answer: (d)

6. Who among the following assumed the position of Central Vigilance Commissioner (CVC) in May 2023?

(a) Praveen Kumar Srivastava

(b) Rajiv Gauba

(c) Rajeev Sinha

(d) Amitabh Kant

Answer: (a)

7. According to the National Multidimensional Poverty Index of India: A Progress Review 2023, which of the following states has the LOWEST percentage of population being multidimensionally poor?

(a) Manipur

(b) Rajasthan

(c) Sikkim

(d) West Bengal

Answer: (c)

8. In which year was the Shri Mahila SEWA Sahakari Bank established?

(a) 1971
(b) 1974
(c) 1975
(d) 1972

Answer: (b)

9. In 1973, the first female high court judge of India Anna Chandy published her autobiography _____ in Malayalam.

(a) The Test of My Life
(b) Playing it My Way
(c) Atmakatha
(d) The Race of My Life

Answer: (c)

10. Kathakali, one of the classical dance forms, is performed primarily in which state of India?

(a) Kerala
(b) Tamil Nadu
(c) Punjab
(d) Andhra Pradesh

Answer: (a)

11. Where was the India House established to work f ndia's liberation from British possession?

(a) London
(b) San Francisco
(c) Kabul
(d) Berlin

Answer: (a)

12. Which of the following features of the Indian Constitution is added by the 97 th Constitutional Amendment Act?

(a) Independent Bodies
(b) Elections to the Panchayats
(c) Cooperative Societies
(d) Foreign Policy

Answer: (c)

13. Which of the following languages was used by the Sangam poets for composing the texts?

(a) Kannada
(b) Tamil
(c) Telugu
(d) Malayalam

Answer: (b)

14. Sedimentary rocks are formed by the process of deposition and compaction of fragments of rocks of various sizes. This process is called:

(a) liquefaction
(b) weathering
(c) lithification
(d) lacoliths

Answer: (c)

15. Who received 'Sangeet Natak Akademi' award 2022 for his/her contribution in the field of Kathak?

(a) Shobha Koser
(b) Rajendra Gangani
(c) Nalini and Kamalini Asthana
(d) Jagdish Gangani

Answer: (c)

16. The religious festival, 'Easter' is celebrated by which community?

(a) Muslim community
(b) Christian community
(c) Parsi community
(d) Jain community

Answer: (b)

17. The elliptical shapes in temple architecture in Dr[illegible]ian style are known by which of the given terms?

(a) Vrita
(b) Nasi
(c) Gajaprishta
(d) Ayatasra

Answer: (c)

18. In which year did Roshan Mistry become the first Indian woman to win an Asian Games medal when she took the silver in the 100-m sprint?

(a) 1954, Asian Games
(b) 1951, Asian Games
(c) 1958, Asian Games
(d) 1962, Asian Games

Answer: (b)

19. What is the meaning of the term 'drop shot' in tennis?

(a) A powerful overhead shot
(b) A shot that hits the lines on the court
(c) A powerful service
(d) A shot played softly and close to the net

Answer: (d)

20. Indian classical vocalist and Padma Vibhushan awardee Kishori Amonkar belongs to which of the following gharanas?

(a) Agra gharana
(b) Mewati gharana
(c) Indore gharana
(d) Jaipur gharana

Answer: (d)

21. Which of the following organisations was established in Bombay by Atmaram Pandurang?

(a) Veda Samaj
(b) Poona Sarvajanik Sabha
(c) Prarthana Samaj
(d) Satya Sodhak Samaj

Answer: (c)

22. Which of the following location has NOT been selected for setting up the seven PM Mega Integrated Textile Region and Apparel (PM MITRA) Park for the textile sector announced by the Government of India in March 2023?

(a) Karnataka
(b) Gujarat
(c) West Bengal
(d) Maharashtra

Answer: (c)

23. Which of the following is a NOT a natur fibre p grown in India?

(a) Cotton
(b) Hemp
(c) Jute
(d) Polyester

Answer: (d)

24. What is denatured alcohol?

(a) Pure Ethanol
(b) Ethanol mixed with little methanol
(c) Pure Methanol
(d) Propanol

Answer: (b)

25. Who was appointed as the governor of Bengal by Sultan Balban after the revolt and subsequent death of Tughril Beg?

(a) Zafar Khan
(b) Bughra Khan
(c) Khizr Khan
(d) Mahmud Khan

Answer: (b)

English Language and Comprehension

1. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. As he is not satisfied / with the jury's decision, / he appeal / in the higher court.

(a) he appeal
(b) with the jury's decision
(c) in the higher court
(d) as he is not satisfied

Answer: (a)

2. Select the option that correctly rectifies the underlined spelling error.

He received an honarary degree for his contributions.

(a) Honorary
(b) Honnary
(c) Honnaary
(d) Honnorary

Answer: (a)

3. Select the option that has an error in the usage of the present perfect tense.

(a) I have completed my task.
(b) Ravi has completed his project.
(c) Ravi has complete his homework.
(d) Rashi has completed her homework.

Answer: (c)

4. Select the INCORRECTLY spelt word.

(a) Occurred
(b) Questionnaire
(c) Peculiar
(d) Mischievious

Answer: (d)

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

Skeleton in the cupboard

(a) An interesting and thoughtful fact
(b) A famous and hidden fact
(c) A popular and known fact
(d) An embarrassing and hidden fact

Answer: (d)

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

I regret / in notify that / the model you want/ is out of stock.

(a) the model you want
(b) is out of stock
(c) I regret
(d) in notify that

Answer: (d)

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

Through thick and thin

(a) To pass through thick and thin air
(b) To be supportive in both good and bad times
(c) To possess both thick and thin clothes
(d) To travel through thick and thin clouds

Answer: (b)

8. Select the INCORRECTLY spelt word.

(a) Sculpter
(b) Pursuit
(c) Almighty
(d) Stampede

Answer: (a)

9. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

When Shina reached the bus stand, she realised that she has left her wallet at home.

(a) No improvement required
(b) she had left her wallet
(c) she leaves her wallet
(d) she had been left her wallet

Answer: (b)

11. Select the most appropriate synonym of the underlined word.

The corporator gathered heaps of curses, and his misdeeds can never be forgiven by the people.

(a) Consequences
(b) Arguments
(c) Transgressions
(d) Confrontation

Answer: (c)

12. Select the most appropriate ANTONYM of the underlined word

It is a betterment of his work.

(a) Popularity
(b) Growth
(c) Improvement
(d) Worsening

Answer: (d)

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

Sarah said that she hates it when people _____ at her.

(a) stare
(b) star
(c) steer
(d) stair

Answer: (a)

15. Select the option that can be used as a one-word substitute for the given phrase.

A medicine to counteract the effect of another medicine

(a) Alimony
(b) Antibiotic
(c) Antidote
(d) Anticoagulant

Answer: (c)

16. The following sentence has been split into four segments. Identify the segment that contains grammatical error(s).

At the zoo, a curious child / fed an elephant some peanuts, / while enthusiastic group of the visitors / watched in amazement.

(a) At the zoo, a curious child
(b) while enthusiastic group of the visitors
(c) fed an elephant some peanuts
(d) watched in amazement.

Answer: (b)

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

Contaminate

(a) Clean
(b) purify
(c) Excel
(d) Pollute

Answer: (d)

18. From the given options, identify the sentence which is in the positive degree.

(a) I have a greater idea in this regard.

(b) His brother is an intelligent boy.

(c) She is the most beautiful girl of the class.

(d) They are playing hockey with longer sticks.

Answer: (b)

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

The ambiguous statement of the leader raised criticism among the public.

(a) Confusing

(b) Disorganised

(c) Clear

(d) Puzzled

Answer: (c)

20. Select the most appropriate option to fill in the blank. From contacting our loved ones to buying groceries for our daily needs, mobile phones fulfilled our every requirement during the COVID-19 pandemic. Not only during the pandemic, but mobile phones have also _____ our needs since the time of their invention.

(a) exasperated

(b) served

(c) annoyed

(d) incensed

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.
>
> It was Saturday evening last week. My parents and younger sister had (1)_____ to my uncle's house to (2)_____the day. I had stayed back to prepare for a class test. At 5:00 p.m, someone (3)_____the door bell. To my shock and dismay, one of my distant relatives, Mr. Sinha (4)_____ standing with his suitcase. I had to call him in most unwillingly. He was a big bore and nothing less than a chatterbox. I asked his preference (5)____ coffee and tea.

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

(a) gone

(b) went

(c) go

(d) going

Answer: (a)

23. Select the most appropriate option to fill in blank number 3.++))
    (a) ring
    (b) rings
    (c) rang
    (d) rung

    Answer: (c)

24. Select the most appropriate option to fill in blank number 4.++))
    (a) were
    (b) was
    (c) been
    (d) is

    Answer: (b)

25. Select the most appropriate option to fill in blank number 5.++))
    (a) between
    (b) among
    (c) on
    (d) around

    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

4	**(d)**	5	**(d)**	6	**(b)**	8	**(d)**	10	**(b)**	11	**(d)**	12	**(b)**	15	**(d)**
16	**(d)**	18	**(b)**	19	**(d)**										

Reasoning Ability and Problem Solving

2	**(c)**	3	**(a)**	4	**(d)**	5	**(c)**	7	**(b)**	8	**(a)**	10	**(c)**	12	**(d)**
13	**(c)**	14	**(c)**	15	**(c)**	17	**(d)**	18	**(a)**	19	**(a)**	20	**(c)**		

General Awareness

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

English Language and Comprehension

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