PREVIOUS YEAR PAPER

SSC MTS 2024 — 30 October 2024, Shift 1

SSC MTS & Havaldar · 30 October 2024 · 9:00 AM - 11:00 AM

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

Left out of the original paper: 18 (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, 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-2024-30-oct-shift-1/

Numerical and Mathematical Ability

2. The average of the first twelve multiples of 11 is:

(a) 71.5
(b) 70.5
(c) 69.5
(d) 68.5

Answer: (a)

3. By selling an article for ₹19.5, a dealer makes a profit of 10%. By how much should he increase his selling price (in ₹, rounded off to two decimal place) so as to make a profit of 30%?

(a) 6.55
(b) 3.55
(c) 5.55
(d) 4.55

Answer: (b)

4. The HCF of 21 and 49 is:

(a) 7
(b) 3
(c) 1
(d) 2

Answer: (a)

6. S gets 78, 75, 68, 64 and 58 marks in Hindi, English, Chemistry, Physics and Mathematics, respectively. What are his average marks per subject?

(a) 68.6
(b) 68.8
(c) 66.6
(d) 66.8

Answer: (a)

7. What will be the average of all the odd numbers from 11 to 71 (both inclusive)?

(a) 41
(b) 47
(c) 39
(d) 31

Answer: (a)

8. Gagandeep marks his goods 50% above the cost price and offers a discount of 25% on the marked price to his customers. What is the percentage gain of Gagandeep?

(a) 12.0%
(b) 13.5%
(c) 12.5%
(d) 13.0%

Answer: (c)

9. A person spends 75% of his income. If his income increases by 15% and expenditure decreases by 10%, then what percentage increase will occur in his savings?

(a) 47.5%
(b) 67.5%
(c) 22.5%
(d) 90%

Answer: (d)

10. The difference between the selling prices with 1 profit and 11% loss is Rs.454.50. What is the cost price of the item?

(a) Rs.1,505
(b) Rs.1,520
(c) Rs.1,515
(d) Rs.1,525

Answer: (c)

12. In a group of 200 members, 45% are teenagers and the remaining are adults. The average weight of the whole group is 62 kg. If the average weight of teenagers is 56 kg, then the nearest integral value of the average weight of adults is _____.

(a) 67 kg
(b) 84 kg
(c) 65 kg
(d) 79 kg

Answer: (a)

13. The diameter of a hollow hemisphere is 40 cm. Water is filled in it up to its brim. When spherical lead shots each of diameter 0.8 cm are dropped into the hemisphere, three-fifths of the water flows out. How many lead shots were dropped into the hemisphere?

(a) 30500
(b) 35700
(c) 35500
(d) 37500

Answer: (d)

14. A cooperative society increases the annual rate of simple interest from 10% to 16½ %, then the yearly income of a person increases by ₹ 1,077.70. The simple interest (in ₹) on the sum at 10% for four years will be:

(a) 8,240
(b) 16,580
(c) 6,632
(d) 9,120.3

Answer: (c)

15. Find the simple interest (in ₹) on ₹3000 as a sum borrowed at 5% per year rate of interest for 4 years.

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

Answer: (d)

16. A speed of 16 km/h is the same as:(Up to 1 place of decimal)

(a) 8.4 m/sec
(b) 2 m/sec
(c) 4.4 m/sec
(d) 8 m/sec

Answer: (c)

17.

The following table shows the percentage population of 4 states below poverty line, and the proportion of male and female.

State	Percentage of population below poverty line	Proportion of male and female	
		Below poverty line	Above poverty line
		Male : Female	Male : Female
A	36	1 : 4	5 : 7
B	21	5 : 3	7 : 11
C	10	2 : 7	5 : 9
D	28	3 : 9	1 : 5

If the total population of state D is [illegible]0[illegible]hen what is the number of females above poverty line in state D?

(a) 51,240
(b) 41,360
(c) 45,230
(d) 48,250

Q.18 Find the simple interest (in ₹) on ₹2500 as a sum borrowed at 5% per year rate of interest for 4 years. 1. 460

2. 500

3. 440

4. 540

Answer: (a)

18. Find the simple interest (in ₹) on ₹2500 as a sum borrowed at 5% per year rate of interest for 4 years.

(a) 460
(b) 500
(c) 440
(d) 540

Answer: (b)

19. The weight of a sphere is jointly proportional to the cube of its radius and the density of the material of which it is made. The radii of two spheres are 17 : 8 and the densities of materials 3 : 4. If the weight of the second sphere be 40 kg, then the approximate weight of the first sphere is:

(a) 123.26 kg
(b) 96 kg
(c) 287.87 kg
(d) 230 kg

Answer: (c)

20. If a man takes 36 minutes to cover a certain distance at a speed of 6 km/h, then the distance covered by him is:

(a) 2 km
(b) 3 km
(c) 2.5 km
(d) 3.6 km

Answer: (d)

Reasoning Ability and Problem Solving

2. In a certain code language, 'RESHMA' is coded as 'XJEPBO' and 'PRITHAM' is coded as 'JXEQFOM'. How will 'GOURI' be coded in that language?

(a) FORLD
(b) EORLD
(c) FDRLD
(d) FORLC

Answer: (a)

4. S, T, U, V, W, X and Y are sitting around a circular table facing the centre (but not necessarily in the same order). Only four people are sitting between S and W when counted from the right of S. Only one person is sitting between W and Y when counted from the left of W. Only two people are sitting between S and X when counted from the left of S. Only two people are sitting between U and Y when counted from the left of U . Only one person is sitting between U and V when counted from the left of V. Who is sitting to the immediate right of X ?

(a) W
(b) Y
(c) V
(d) S

Answer: (a)

6. In a certain code language, 'LIME' is coded as '4826' and 'FOLD' is coded as '9378'. What is the code for 'L' in that language?

(a) 8
(b) 2
(c) 4
(d) 7

Answer: (a)

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

12 ÷ 13 + 128 – 343 × 49 = ?

(a) 35
(b) 54
(c) 53
(d) 45

Answer: (a)

9. In the following number-pairs, the second number is obtained by applying certain mathema cal opera ons 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: 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.)

7, 27 11, 43

(a) 15, 58
(b) 14, 59
(c) 15, 59
(d) 14, 58

Answer: (c)

11. NUQM is related to PWSO in a certain way based on the English alphabetical order. In the same way, JQMI is related to LSOK. To which of the following is FMIE related, following the same logic?

(a) HOKG
(b) HOGK
(c) OHGK
(d) OHKG

Answer: (a)

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

NRT, JNP, FJL, BFH, ?

(a) XZS
(b) XAD
(c) XDF
(d) XBD

Answer: (d)

15. What should come in place of the question mark (?) in the following series? -553, -532, -511, -490, -469, ?

(a) 448
(b) 458
(c) -458
(d) -448

Answer: (d)

16. What will come in the place of '?' in the following equation, if '+' and '÷' are interchanged and '×' and '–' are interchanged? 24 + 3 ÷ 8 × 2 – 6 =?

(a) – 6
(b) 6
(c) 4
(d) 18.75

Answer: (c)

17. FLLC is related to HNNE in a certain way based on the English alphabetical order. In the same way, AFFW is related to CHHY. To which of the following is PVVM related, following the same logic?

(a) RXXO
(b) ROXX
(c) XXOR
(d) XXRO

Answer: (a)

18. U, V, W, X, Y, Z and A are sitting around a circular table facing the centre (but not necessarily in the same order). X sits third to the left of Y. W sits second to the left of V. Only Y sits between A and W. U is not an immediate neighbour of X. Who sits fourth to the right of Z?

(a) U
(b) A
(c) W
(d) Y

Answer: (a)

General Awareness

1. What do you call the body cavity that is lined by mesoderm?

(a) Diploblasts
(b) Coelom
(c) Radial symmetry
(d) Triploblasts

Answer: (b)

2. On 19 July 2023, who was appointed as the 25 th Director General of the Indian Coast Guard?

(a) VK Singh
(b) K Natarajan
(c) BS Raju
(d) Rakesh Pal

Answer: (d)

4. The Huttari dance, observed as an annual tradition, is a leisurely performance that takes place during the harvesting season in _____.

(a) Telangana
(b) Karnataka
(c) Andhra Pradesh
(d) Odisha

Answer: (b)

5. Which Kuchipudi dancer received National Nrity[illegible]hiromani Award 2022?

(a) Jatin Goswami
(b) Anita Sharma
(c) Aparna Satheesan
(d) Anindita Neogy Anaam

Answer: (c)

7. With which of the following organisations was Henry Louis Vivian Derozio, a teacher of Hindu College of Calcutta, associated?

(a) Rahnumai Mazdayasnan Sabha
(b) Young Bengal Movement
(c) Paramahansa Mandali
(d) Sree Narayana Dharma Paripalana Yogam

Answer: (b)

8. Gangubai Hangal, a renowned Indian music personality, is recognised for her contributions in which of the following fields?

(a) Ghazal Singing
(b) Sufi Music
(c) Rabindra Sangeet
(d) Hindustani Classical Music

Answer: (d)

9. Large tidal waves caused by an underwater earthquake or volcanic eruption are known as a _____.

(a) tsunami
(b) hurricane
(c) typhoon
(d) tornado

Answer: (a)

10. The God of Small Things is a novel authored by whom among the following authors?

(a) Rohinton Mistry
(b) Shashi Tharoor
(c) Fakira
(d) Arundhati Roy

Answer: (d)

11. Most of the Harappan sites are primarily divided o _____ parts.

(a) four
(b) two
(c) eight
(d) six

Answer: (b)

12. As per the 2011 census, which of the following union territories had the lowest population?

(a) Lakshadweep
(b) Chandigarh
(c) Puducherry
(d) Andaman and Nicobar Islands

Answer: (a)

13. In basketball, how many points are awarded when a basket is scored from outside the 6.25-metre line?

(a) Six points
(b) Three points
(c) Two points
(d) Five points

Answer: (b)

14. In which of the following empires of South India was the Kamalapuram tank built in the 15 th century?

(a) Bidar
(b) Vijayanagara
(c) Chola
(d) Bijapur

Answer: (b)

15. If labour is employed in a job but is not actually utilised for the production of goods and services, it is known as:

(a) disguised unemployment
(b) educated unemployment
(c) urban unemployment
(d) seasonal unemployment

Answer: (a)

16. Which of the following National Waterways (NW) is associated with the Udyogamandal and the Champakkara canals?

(a) NW-25
(b) NW-10
(c) NW-5
(d) NW-3

Answer: (d)

17. In May 2023, who was sworn in as the r[illegible] Cer[illegible] Vigilance Commissioner of India?

(a) PK Srivastava
(b) GC Murmu
(c) Suresh N Patel
(d) Amit Khare

Answer: (a)

18. As a part of the Non-Cooperation Movement in 1922, the angry peasants had set ablaze the police station of which place?

(a) Chauri Chaura
(b) Kakori
(c) Dhaka
(d) Dandi

Answer: (a)

19. Meher had two large chunks of coal. She set fire to the first chunk and broke the second one into pieces. Help Meher understand what kind of changes happened to the two chunks of coal at the end of the activity by choosing all the applicable statements.
A. Both chunks of coal underwent physical changes only.
B. The changes were reversible for the first chunk of coal only.
C. Only physical changes took place for the second chunk of coal.
D. Both chunks of coal underwent chemical changes only.
E. The first case is an example of chemical changes.

(a) Only A and B
(b) Only D
(c) Only B and D
(d) Only C and E

Answer: (d)

20. What is the study of the interactions between living organisms and their environment called?

(a) Geology
(b) Ecology
(c) Chemistry
(d) Biology

Answer: (b)

21. Scissor style and Western Roll are the techniques used in:

(a) long jump
(b) high jump
(c) pole vault
(d) triple jump

Answer: (b)

22. Which of the following is NOT considered as a Fundamental Duty?

(a) To uphold and protect the sovereignty, unity and integrity of India
(b) To develop the scientific temper, humanism and the spirit of inquiry and reform
(c) To value and preserve the rich heritage of our composite culture
(d) To uphold and protect secularism

Answer: (d)

23. Which of the following rivers flows north of the Tropic of Cancer in India?

(a) Yamuna
(b) Tapi
(c) Mahanadi
(d) Penganga

Answer: (a)

24. In which of the following states is the Mamallapuram Utsav celebrated?
    (a) Uttarakhand
    (b) Kerala
    (c) Tamil Nadu
    (d) Karnataka
    Answer: (c)

25. With reference to provinces under Mauryan dynasty, which of the following pairs is correct?
    (a) Uttarapatha (North) - Suvarnagiri
    (b) Dakshinapatha (South) - Ujjain
    (c) Avantiratha (West) - Taxila
    (d) Prachyapatha (East) - Toshali
    Answer: (d)

English Language and Comprehension

1. Select the most appropriate idiom to replace the underlined segment in the given sentence.

We were asked to vote for the candidates by raising our hands to indicate voting for or against a proposition.
    (a) changing hands
    (b) getting out of hand
    (c) a show of hands
    (d) tipping our hands
    Answer: (c)

2. Select the most appropriate meaning of the underlined word in the given sentence. The military operation was part of a conspiracy against national security.
    (a) Enthusiasm
    (b) Motivation
    (c) Plot
    (d) willfulness
    Answer: (c)

3. 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'.

Manisha set apart with her friends to explore the countryside.
    (a) set aside
    (b) set in
    (c) set out
    (d) No substitution required
    Answer: (c)

4. Select the INCORRECTLY spelt word.

(a) Exaggeration
(b) Sacrilege
(c) Assesment
(d) Committee

Answer: (c)

5. Select the most appropriate meaning of the underlined word in the given sentence.

I agreed with your assessment.

(a) Disagreed
(b) Rejected
(c) Supported
(d) Doubted

Answer: (c)

7. Identify the preposition that needs to be omitted to correct the sentence.

They live near to the park.

(a) to
(b) They
(c) live
(d) near

Answer: (a)

8. Select the option that correctly rectifies the ined spelling error in the given sentence.

In the first half century after U.S. independence, a major preportion of the nation's labour force shifted from the agricultural to the manufacturing sector.

(a) priposon
(b) preposion
(c) prepotion
(d) proportion

Answer: (d)

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

The _____ model who can be selected for this advertisement is Meera Narayan.

(a) more better
(b) best
(c) most best
(d) most good

Answer: (b)

11. Select the most appropriate meaning of the underlined word in the context of the following sentence.

We should go to the Himalayas this spring.

(a) To jump
(b) Coiled metal
(c) A season
(d) A water body

Answer: (c)

12. Select the option with the correctly spelt word to fill in the blank.

The delta of river _____ looks like a bird's foot because a lot of sediment is carried into the calm sea water.

(a) Missisippi
(b) Mississipi
(c) Mississippi
(d) Mississipppi

Answer: (c)

13. Select the option that can be used as a one-word substitute for the given group of words.

The irrational fear of snakes

(a) Necrophobia
(b) Xenophobia
(c) Nomophobia
(d) Ophidiophobia

Answer: (d)

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

Ally

(a) Gloomy
(b) Infamy
(c) Enemy
(d) Dreamy

Answer: (c)

15. The given sentence is divided into four segments. Select the segment with the grammatical error. I was surprised / to see my / daughter, Manya, riding her / new bicycle confident.

(a) daughter, Manya, riding her
(b) I was surprised
(c) new bicycle confident
(d) to see my

Answer: (c)

16. Select the most appropriate option to fill in the blank. How long have you been _____ these contact lenses?

(a) swimming
(b) prevailing
(c) seeing
(d) wearing

Answer: (d)

19. Select the most appropriate synonym of the underlined word. Ritu is a diligent girl who looks after her aged parents.

(a) stupid
(b) lethargic
(c) hardworking
(d) innocent

Answer: (c)

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

Despite the challenges, / the team is determined to / completed / the project on time and within budget.

(a) Despite the challenges
(b) the team is determined to
(c) the project on time and within budget
(d) completed

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.
>
> A weed is an untamed plant that (1)_____ where it is not wanted, usually among gardens or crops. The majority of weeds are (2)_____. While some are toxic to horses and cattle, others harm mature crops by (3)_____them of water, sunlight, soil and minerals. There are various ways that weeds (4)_____. They are (5)_____ transported from one location to another as trash, dust or fodder.

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

(a) perfects
(b) evolves
(c) amends
(d) spreads

Answer: (d)

22. Select the most appropriate option to fill in blank number 2.
    (a) delicates
    (b) dangerous
    (c) grace
    (d) vices
    Answer: (b)

23. Select the most appropriate option to fill in blank number 3.
    (a) relieving
    (b) spoiling
    (c) digesting
    (d) depriving
    Answer: (d)

24. Select the most appropriate option to fill in blank number 4.
    (a) entertain
    (b) extension
    (c) breach
    (d) propagate
    Answer: (d)

25. Select the most appropriate option to fill in blank number 5.
    (a) every
    (b) consequence
    (c) frequently
    (d) rare
    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

2	**(a)**	3	**(b)**	4	**(a)**	6	**(a)**	7	**(a)**	8	**(c)**
9	**(d)**	10	**(c)**	12	**(a)**	13	**(d)**	14	**(c)**	15	**(d)**
16	**(c)**	17	**(a)**	18	**(b)**	19	**(c)**	20	**(d)**		

Reasoning Ability and Problem Solving

2	**(a)**	4	**(a)**	6	**(a)**	7	**(a)**	9	**(c)**	11	**(a)**
13	**(d)**	15	**(d)**	16	**(c)**	17	**(a)**	18	**(a)**		

General Awareness

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

English Language and Comprehension

1	**(c)**	2	**(c)**	3	**(c)**	4	**(c)**	5	**(c)**	7	**(a)**
8	**(d)**	9	**(b)**	11	**(c)**	12	**(c)**	13	**(d)**	14	**(c)**
15	**(c)**	16	**(d)**	19	**(c)**	20	**(d)**	21	**(d)**	22	**(b)**
23	**(d)**	24	**(d)**	[illegible]	**(c)**						