PREVIOUS YEAR PAPER

SSC MTS 2024 — 28 October 2024, Shift 3

SSC MTS & Havaldar · 28 October 2024 · 4:00 PM - 5:30 PM

71 of the paper's 89 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 28 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-2024-28-oct-shift-3/

Numerical and Mathematical Ability

2. In an election between two candidates, one person got 35% of the votes and lost by 6 votes. Assuming that there were no invalid votes, what was the total number of votes?

(a) 50
(b) 30
(c) 18
(d) 20

Answer: (d)

3. A chair was sold for ₹8,601 after giving two successive discounts of 8.5% and 6%. Find the marked price.

(a) ₹9,848
(b) ₹10,000
(c) ₹9,000
(d) ₹9,612

Answer: (b)

4. Find the simple interest (in ₹) on ₹3500 as a sum borrowed at 4% per year rate of interest for 3 years.

(a) 360
(b) 460
(c) 380
(d) 420

Answer: (d)

5. Sunita borrows ₹5,500 for 3 years at 6.5% per annum simple interest. She immediately lends it to Vedanshi at 9.3% per annum simple interest for 3 years. Find her gain (in ₹) in the transaction per year.

(a) 154
(b) 149
(c) 157
(d) 161

Answer: (a)

6. In a ration shop, there is a certain amount of cereals to distribute to 42 families for 15 days. If 48 kg of cereals can be distributed to 30 families for 7 days, then the quantity of cereals already in the shop was:

(a) 96 kg

(b) 112 kg

(c) 144 kg

(d) 84 kg

Answer: (c)

7. In a circular race of 1100 m, P and Q start from the same point, at the same time and at speeds of 36 km/h and 63 km/h, respectively. When will they meet again for the first time on the track if they are running in the opposite direction?

(a) 40 s

(b) 10 s

(c) 20 s

(d) 27 s

Answer: (a)

8. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 72 kg and 35 kg is:

(a) 51.4

(b) 50.4

(c) 52.4

(d) 49.4

Answer: (b)

10. Find the simple interest (in ₹) on ₹3500 as a sum borrowed at 7% per year rate of interest for 5 years.

(a) 1165

(b) 1265

(c) 1225

(d) 1185

Answer: (c)

12. By selling an article for ₹19.5, a dealer makes a profit of 30%. By how much should he increase his selling price (in ₹) so as to make a profit of 35%?

(a) 0.75

(b) 1.75

(c) 2.75

(d) 3.75

Answer: (a)

13. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 68 kg and 39 kg is:

(a) 51.4
(b) 52.4
(c) 49.4
(d) 50.4

Answer: (d)

14. The LCM of 3,4 and 5 is:

(a) 20
(b) 60
(c) 30
(d) 48

Answer: (b)

16. The mean of five numbers is 55. If one of the numbers is excluded, the mean gets reduced by 5. Which of the following is the excluded number?

(a) 55
(b) 65
(c) 75
(d) 50

Answer: (c)

19. A cylindrical glass with a diameter of 20 cm is h ıg the juice to a height of 9 cm. An ice cube of size 8 cm is amerced in it completely. H muc ill the juice level rise in the glass? (Use π = 3.142 and answer correctly up to the nearesı ..

(a) 63 mm
(b) 17 mm
(c) 16 mm
(d) 163 mm

Answer: (c)

20. A motor car starts with a speed of 60 km/h and increases its speed after every two hours by 15 km/h. In how much time will it cover a distance of 450 km?

(a) 5 hours
(b) 9 hours
(c) 6 hours
(d) 2 hours

Answer: (c)

Reasoning Ability and Problem Solving

2. What will come in place of the question mark (?) in the following equation if '+' and '−' are interchanged and '×' and '÷' are interchanged? 62 − 36 + 18 ÷ 6 × 3 = ?

(a) 27
(b) 17
(c) 62
(d) 107

Answer: (c)

3. In a certain code language, 'VOLT' is coded as '5731' and 'LEAD' is coded as '4186'. What is the code for 'L' in the given code language?

(a) 8
(b) 3
(c) 4
(d) 1

Answer: (d)

4. Seven friends - Asha, Sreeja, Mamata, Ramya, Hema, Jaya, and Mohini - are sitting around a circular table, facing the centre (but not necessarily in the same order). Ramya is sitting fourth to the right of Asha. Mamata sits third to the left of Ramya. Jaya has Sreeja and Mamata as immediate neighbours. Hema is sitting to the immediate right of Ramya. Who is sitting second to the left of Mohini?

(a) Hema
(b) Sreeja
(c) Asha
(d) Ramya

Answer: (d)

5. What should come in place of the question mark (?) in the following series based on the English alphabetical order? RJX, PNV, NRT, LVR ,?

(a) JZQ
(b) KAP
(c) JZP
(d) KZP

Answer: (c)

6. What will come in the place of '?' in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged? 110 + 54 × 9 − 13 ÷ 2 = ?

(a) 130
(b) 144
(c) 114
(d) 136

Answer: (a)

7. Select the number from among the given options that can replace the question mark (?) in the following series. 9, 45, 225, 1125, 5625, ?

(a) 4679
(b) 2799
(c) 7689
(d) 28125

Answer: (d)

8. 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 Excels are Words. All Words are PowerPoints.

Conclusions:
(I) All PowerPoints are Excels.
(II) At least some Words are Excels.

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

Answer: (a)

9. In a code language, 'PRETTY' is written as 'BIVGC and 'JOYFUL' is written as 'OLBUFQ'. How will 'EXOTIC' be written in the same language?

(a) XBLGRV
(b) SCLGRV
(c) SBLGRV
(d) XCLGRV

Answer: (d)

11. 35 is related to 105 following a certain logic. Following the same logic, 51 is related to 153. To which of the following is 72 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) 210
(b) 212
(c) 214
(d) 216

Answer: (d)

14. In a certain code language, 'LINK' is coded as '4175' and 'NICK' is coded as '7419'. What is the code for 'C' in the given language?

(a) 7
(b) 1
(c) 4
(d) 9

Answer: (d)

15. 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 conclusion(s) logically follow(s) from the statement(s).

Statements: All bats are mammals. No mammal is a fish.

Conclusions:
(I) No bat is a fish.
(II) Some fishes are mammals.

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

Answer: (a)

16. EJIA is related to FKJB in a certain way based on the English alphabetical order. In the same way, ZDCU is related to AEDV. To which of the following is OTSK related, following the same logic?

(a) LTPU
(b) PULT
(c) PUTL
(d) PTLU

Answer: (c)

17. D, E, F, L, R, S and T are sitting around a circular table facing the centre(but not necessarily in the same order). R sits second to the right of D. L sits to the immediate left of D. T sits third to the left of L. F sits third to the left of S. Neither E nor S is an immediate neighbour of R. What is the position of S with respect to R?

(a) Fourth to the left
(b) Third to the right
(c) Fifth to the right
(d) Second to the right

Answer: (d)

18. 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.)

25, 77 28, 86

(a) 34, 104
(b) 35, 103
(c) 35, 104
(d) 34, 103

Answer: (a)

20. MIPL is related to OKRN in a certain way based on the English alphabetical order. In the same way, PLSO is related to RNUQ. To which of the following is HDKG related, following the same logic?

(a) FJMI
(b) JFIM
(c) FJIM
(d) JFMI

Answer: (d)

General Awareness

1. The official journey of 'Azadi Ka Amrit Maho[illegible]commenced on:

(a) 15 th August 2022
(b) 14 th April 2021
(c) 12 th March 2021
(d) 14 th August 2022

Answer: (c)

3. In which of the following states can the 'Loo' phenomenon be observed?

(a) Rajasthan
(b) Goa
(c) Tamil Nadu
(d) Manipur

Answer: (a)

5. Which of the following awards and recognitions was NOT received by Vempati Chinna Satyam?

(a) Kalidas Samman
(b) Honorary doctorate
(c) Sangeet Natak Akadami Award
(d) Padma Shri

Answer: (d)

6. The East India Company lost all its administrative powers with the enforcement of _____.

(a) The Regulating Act, 1773
(b) The Charter Act of 1853
(c) The Government of India Act, 1858
(d) The Indian Councils Act, 1892

Answer: (c)

7. A three-time Olympian, PT Usha broke the Asian Games record in four events (200 m, 400 m, 400 m hurdles and 4 × 400 m relay) in _____.

(a) New Delhi, 1982
(b) Beijing, 1990
(c) Seoul, 1986
(d) Hiroshima, 1994

Answer: (c)

8. In which state of India is the Telaiya dam located?

(a) Bihar
(b) Jharkhand
(c) Madhya Pradesh
(d) Karnataka

Answer: (b)

10. The autobiography of which of the following fam Indian musicians is titled 'My Life, My Music'?

(a) Shivkumar Sharma
(b) Zakir Hussain
(c) Bismillah Khan
(d) Ravi Shankar

Answer: (d)

11. As of February 2023, who is the Union Minister of Road Transport and Highways?

(a) Dharmendra Pradhan
(b) Mansukh Mandaviya
(c) Nitin Gadkari
(d) Ashwini Vaishnav

Answer: (c)

12. Who does NOT fall under the executive of the Indian Union?

(a) Council of Ministers
(b) President
(c) Chief Justice of India
(d) Prime Minister

Answer: (c)

15. At which Olympic games did India receive its first Olympic medal in a shooting event?
(a) London 2012
(b) Beijing 2008
(c) Athens 2004
(d) Tokyo 2022
Answer: (c)

16. When a river reaches a low lying plain, it continues erosion of soil as well as deposition and as a result of both these factors another river channel develops and later it is detached from the main river forming a U-shaped lake; this is called:
(a) a canal
(b) an estuary
(c) a gulf
(d) an oxbow lake
Answer: (d)

17. Fa-Hsien, a Chinese Buddhist Pilgrim, began his journey back home (China) from _____.
(a) Bengal
(b) Prayag
(c) Taxila
(d) Arikamedu
Answer: (a)

18. When was the first-round table Conference star by the British Government in London?
(a) November 1932
(b) December 1931
(c) November 1930
(d) December 1929
Answer: (c)

20. Lalita J Rao is associated with which of the following gharanas?
(a) Kirana gharana
(b) Jaipur gharana
(c) Agra gharana
(d) Benaras gharana
Answer: (c)

21. Which of the following is a unitary feature of the Indian Constitution?
(a) Division of Powers
(b) single citizenship
(c) Written Constitution
(d) Bicameralism
Answer: (b)

22. 'Rajatarangini', a vivid account of the kings of Kashmir, was composed by Kalhana in the _____ language.

(a) Arabic
(b) Urdu
(c) Sanskrit
(d) Persian

Answer: (c)

24. Sultan Ghari tomb is situated to west of the Qutub in Delhi is like a fortress within a walled enclosure with bastions on the comers, with its _____ grave chamber underground.

(a) squarish
(b) pentagonal
(c) rectangular
(d) octagonal

Answer: (d)

25. 'The Climate Smart Cities Assessment Framework 2.0' is to evaluate how many cities across India?

(a) 120
(b) 32
(c) 70
(d) 100

Answer: (d)

English Language and Comprehe

1. Select the sentence that has a grammatical error.

(a) Alka bought new pair of shoes for the party.
(b) He was an honest engineer by profession.
(c) Suhas has a younger brother and an elder sister.
(d) It was a huge zoo with an elephant enclosure.

Answer: (a)

2. Select the correct idiom to substitute the underlined segment in the following sentence. His remarks made the matter worse.

(a) Added fuel to the fire
(b) Spilled the beans
(c) Made a splash
(d) Killed two birds with one stone

Answer: (a)

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

The athletes / trained tirelessness / to prepare for / the upcoming competition.

(a) to prepare for
(b) trained tirelessness
(c) The athletes
(d) the upcoming competition

Answer: (b)

4. Select the option that rectifies the INCORRECT spelling in the given sentence. Pleasee allow me to start.

(a) Pleeasse
(b) Pleesse
(c) Please
(d) Pleasse

Answer: (c)

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

The storm caused extensive damage to homes, _____ many families homeless.

(a) to leave
(b) leave
(c) is left
(d) leaving

Answer: (d)

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

He is / an expert / in / an English literature.

(a) He is
(b) in
(c) an English literature
(d) an expert

Answer: (c)

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

Grease someone's palm

(a) To flatter someone
(b) To beat someone
(c) To abuse someone
(d) To bribe someone

Answer: (d)

8. Select the most appropriate option that can substitute the underlined segment in the given sentence. The elusive moon peeked from behind the clouds, illuminating the earth with its gentle glow.

(a) glowing up the earth for
(b) empowering the earth via
(c) lighting up the earth with
(d) encouraging the earth with

Answer: (c)

9. Select the INCORRECTLY spelt word.

(a) Admittance
(b) Admissible
(c) Admission
(d) Admited

Answer: (d)

10. Select the correct spelling of the incorrectly spelt word in the given sentence.

He was suspended from the party due to his suspiscious activities.

(a) Suspicius
(b) Suspitious
(c) Suspeceous
(d) Suspicious

Answer: (d)

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

Ambrosial

(a) Faithful
(b) Pleasing
(c) Vengeful
(d) Malodorous

Answer: (d)

13. Select the most appropriate meaning of the underlined phrase.

Those who have died cannot be brought back to life.

(a) Resurrect
(b) Retract
(c) Abstract
(d) Extract

Answer: (a)

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

Hermetic

(a) Intelligible
(b) Obnoxious
(c) Lucid
(d) Esoteric

Answer: (d)

15. Select the most appropriate ANTONYM of the underlined word.

she had garnered the information from various books.

(a) Criticised
(b) Implemented
(c) Dispersed
(d) Liberated

Answer: (c)

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

He was lying at / his bed when he / saw the snake enteing / through the window.

(a) through the window
(b) his bed when he
(c) He way lying at
(d) saw the snake entering

Answer: (c)

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

She is learning / to play the guitar / to pursue her passion / for the music.

(a) for the music.
(b) to play the guitar
(c) to pursue her passion
(d) She is learning

Answer: (a)

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

A raven, which you know is black as coal, was envious of the swan, because her feathers are as white as the purest snow.

(a) feathers is a white as
(b) feathers were as white as
(c) feathers is as white as
(d) feathers was a white as

Answer: (b)

19. Select the most appropriate synonym of the given word. Vivid

(a) Varied
(b) Soothing
(c) Bright
(d) Dull

Answer: (c)

20. Select the most appropriate option that can substitute the underlined segment in the given sentence. Do you know the purpose of a fire extinguisher? It helps to put up with an engulfing fire, in case of an emergency.

(a) run away with
(b) turn over
(c) stand out
(d) put out

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. Khashaba Jadhav was the independent India's first individual olympic medallist. There (1) _____ some firsts that stay in history forever. The one held by Khashaba Jadhav is one such first. He might have been referred to as the Pocket Dynamo, but his deeds dwarfed those of far (2) _____ athletes in his sport. Just a couple of years after India had become a Republic, Jadhav took part in the 1952 Olympics at Helsinki, Finland. As funding sportspersons weren't really a (3) _____ for a country just finding its feet, Jadhav's trip to Helsinki was actually funded by the public. Jadhav however, (4) _____ his way to fame, becoming independent India's first individual Olympic medal winner. He (5) _____ bronze in the bantamweight category.

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

(a) is
(b) was
(c) were
(d) are

Answer: (d)

22. Select the most appropriate option to fill in blank 2.]
    (a) smaller
    (b) big
    (c) small
    (d) bigger
    Answer: (d)

23. Select the most appropriate option to fill in blank 3.]
    (a) priority
    (b) posteriority
    (c) supremacy
    (d) subsequence
    Answer: (a)

24. Select the most appropriate option to fill in blank 4.]
    (a) buckled-under
    (b) wrestled
    (c) Lazed
    (d) Surrendered
    Answer: (b)

25. Select the most appropriate option to fill in blank 5.
    (a) lulled
    (b) constructed
    (c) claimed
    (d) forgave
    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	**(d)**	3	**(b)**	4	**(d)**	5	**(a)**	6	**(c)**	7	**(a)**
8	**(b)**	10	**(c)**	12	**(a)**	13	**(d)**	14	**(b)**	16	**(c)**
19	**(c)**	20	**(c)**								

Reasoning Ability and Problem Solving

2	**(c)**	3	**(d)**	4	**(d)**	5	**(c)**	6	**(a)**	7	**(d)**
8	**(a)**	9	**(d)**	11	**(d)**	14	**(d)**	15	**(a)**	16	**(c)**
17	**(d)**	18	**(a)**	20	**(d)**						

General Awareness

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

English Language and Comprehension

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