PREVIOUS YEAR PAPER

SSC MTS 2024 — 29 October 2024, Shift 1

SSC MTS & Havaldar · 29 October 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 29 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-2024-29-oct-shift-1/

Numerical and Mathematical Ability

1. P and Q walk along a circular track in opposite directions. P completes two rounds of the track in 1 minute and Q completes three rounds of the track in the same time. They start from the same point and walk for 2 minutes. How many times will they meet on the track between start time and end time?

(a) 8
(b) 10
(c) 11
(d) 9

Answer: (d)

2. A container has 72 litre of pure milk. One–third of the milk is replaced by water in the container. Again, one–third of the mixture is extracted and an equal amount of water is added. What is the ratio of milk to water in the new mixture?

(a) 3 : 4
(b) 1 : 2
(c) 4 : 5
(d) 2 : 3

Answer: (c)

3. The simple interest on a certain sum at the rate of 12.5% p.a. for 3 years and 6 months is ₹6,750 less than the principal. Find out the principal.

(a) ₹10,000
(b) ₹12,000
(c) ₹12,350
(d) ₹10,650

Answer: (b)

5. The sum of two natural numbers is 80 and their HCF is 10. How many such pairs of numbers are possible?

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

Answer: (a)

7. Find the simple interest (in ₹) on ₹2000 as a sum borrowed at 7% per year rate of interest for 5 years.

(a) 660
(b) 740
(c) 640
(d) 700

Answer: (d)

9. A metallic cone of radius 12 cm and height 36 cm is melted and made into spheres of radius 3 cm each. How many spheres are there?

(a) 74
(b) 34
(c) 58
(d) 48

Answer: (d)

10. At a health club, 56% of the members are women and 44% of the members are men. If the average age of the men is 35 years and the average age of the women is 30 years, what is the average age (in years) of all the members?

(a) 33.5
(b) 34.9
(c) 32.8
(d) 32.2

Answer: (c)

11. Find the average of all the numbers between 21 and 70 which are divisible by 3 and leave the remainder 2.

(a) 55.4
(b) 45.5
(c) 65.5
(d) 55.6

Answer: (b)

12. Find the simple interest (in ₹) on ₹3500 as a sum borrowed at 6% per year rate of interest for 2 years.

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

Answer: (a)

15. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 70 kg and 38 kg is:

(a) 49.6
(b) 50.6
(c) 51.6
(d) 52.6

Answer: (b)

16. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 70 kg and 36 kg is:

(a) 52.2
(b) 50.2
(c) 49.2
(d) 51.2

Answer: (b)

19. Ankur sells a box to Sunita earning a pr[illegible]of 2[illegible]. Sunita sold it to Mohit with a 9% profit. Mohit sold it to Anjali for ₹24,525 thereby gaining 2[illegible]what price (in ₹) did Ankur buy the box?

(a) 20000
(b) 17000
(c) 15000
(d) 12000

Answer: (c)

20. The price of a pencil is increased by ₹2 this year and ₹2 in the previous year. The price of a pencil is now 30% more than the price in the previous to the previous year. How much is the price of the pencil now in ₹?

(a) 14.33
(b) 17.33
(c) 15.33
(d) 13.33

Answer: (b)

Reasoning Ability and Problem Solving

1. OGMI is related to LDJF in a certain way based on the English alphabetical order. In the same way, SKQM is related to PHNJ. To which of the following is VNTP related, following the same logic?

(a) SKQM

(b) KSMQ

(c) SKMQ

(d) KSQM

Answer: (a)

5. 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 their constituent digits. E.g. 13 – Operations on 13 such as adding/ subtracting / multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) 23, 230 46, 460

(a) 24, 120

(b) 52, 520

(c) 84, 410

(d) 35, 620

Answer: (b)

6. Which two numbers should be interchanged to ma[illegible]ne given equation correct? 92 + 36 – 28 + (42 ÷ 3) – (22 × 4) = 10 (Note: Interchange should b[illegible]one of entire number and not individual digits of a given number)

(a) 42 and 36

(b) 3 and 4

(c) 36 and 28

(d) 22 and 28

Answer: (c)

7. A, B, C, D, E, F, and G, are sitting around a circular table facing the centre (but not necessarily in the same order). Only 2 people sit between A and B when counted from the left of A. Both G and F are immediate neighbours of A. C sits immediate to the left of E. Only 2 people sit between D and G when counted from the right of D. How many people sit between E and F when counted from the left of F?

(a) 3

(b) 2

(c) 4

(d) 1

Answer: (b)

8. OD 11 is related to KH 15 in a certain way. In the same way, ID 5 is related to EH 9. To which of the following is LK 3 related, following the same logic?

(a) HO 7

(b) HO −3

(c) HO 3

(d) HP 7

Answer: (a)

9. In a certain code language, 'BEST' is coded as '9715' and 'CLUB' is coded as '8762'. What is the code for 'B' in the given code language?

(a) 9

(b) 7

(c) 2

(d) 6

Answer: (b)

10. 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). E is sitting fourth to the left of F. A is sitting third to the left of E. G is sitting third to the right of D. C is sitting to the immediate left of D. B is sitting second to the left of F. What is the position of F with respect to A?

(a) To the immediate left

(b) Fourth to the right

(c) To the immediate right

(d) Second to the left

Answer: (a)

11. In a certain code language, ‘TIME’ is written as ‘3629’ and ‘BEND’ is written as ‘4582’. How is ‘E’ written in that code language?

(a) 2

(b) 4

(c) 9

(d) 5

Answer: (a)

13. In a certain code language, ‘GOLF’ is coded as ‘1286’ and ‘WOLF’ is coded as ‘6428’. What is the code for ‘W’ in that language?

(a) 8

(b) 2

(c) 4

(d) 6

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: All pens are razors. All razors are creams.

Conclusions:
(I) All pens are creams.
(II) All creams are razors.

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

Answer: (a)

16. What should come in place of the question mark (?) in the given series?

42, 48, 54, 60, 66, ?

(a) 72
(b) 71
(c) 73
(d) 70

Answer: (a)

17. Which two signs should be interchanged to mak e given equation correct? 39 ÷ 3 – 11 + 45 × 17 = 171

(a) – and ×
(b) ÷ and ×
(c) + and ×
(d) – and +

Answer: (a)

18. What should come in place of the question mark (?) in the given series based on the English alphabetical order? DHC, GKF, JNI, MQL, ?

(a) QVQ
(b) PUP
(c) PTO
(d) QTO

Answer: (c)

20. 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 gums are candies. No candy is a ball.

Conclusions:
(I) Atleast some candies are gums.
(II) No ball is a gum.

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

Answer: (d)

General Awareness

1. Padma awardee Arjun Singh Dhurve is related to which of the following folk dances?

(a) Chhau
(b) Garba
(c) Baiga
(d) Raslila

Answer: (c)

2. Which book has been authored by Rabindra Bha[illegible]?

(a) The Music Room
(b) Indie 101
(c) Music to my Ears
(d) The Forgotten Forms of Hindustani Music

Answer: (d)

3. The element with atomic number 59 lies in which block of the Periodic Table?

(a) The p-block
(b) The d-block
(c) The f-block
(d) The s-block

Answer: (c)

4. In 1927, where was the conference against colonial oppression and imperialism, in which Jawaharlal Nehru participated on behalf of Indian National Congress, held?

(a) Leuven
(b) Bruges
(c) Brussels
(d) Antwerp

Answer: (c)

6. Which bonding material was mainly used to join the stones or bricks of 'The Great Bath' of the Harappan Civilisation?

(a) Mud Mortar
(b) Gypsum Mortar
(c) Gauged Mortar
(d) Lime Mortar

Answer: (b)

7. According to the Census of India 2011, what was the total population of India?

(a) 1.41 billion
(b) 98.6 billion
(c) 1.11 billion
(d) 1.21 billion

Answer: (d)

8. Magnolia and Laurel trees are found in which type of forest in India?

(a) Tropical Deciduous Forests
(b) Mangrove Forests
(c) Tropical Thorn Forests
(d) Montane Forests

Answer: (d)

9. Which of the following awards is NOT conferred f xcellence in dance?

(a) Kalidas Samman Award
(b) Padma Shree Award
(c) Lalit Kala Akademi Award
(d) Sangeet Natak Akademi Award

Answer: (c)

10. Which reform was initiated by Lord Ripon for the welfare of labourers?

(a) The Vernacular Press Act
(b) The Financial Decentralisation
(c) The Factory Act
(d) The Educational Reforms

Answer: (c)

11. Which of the following is NOT a Fundamental Duty mentioned in the Indian constitution?

(a) To obey parents and discharge our family responsibilities
(b) To cherish and follow the noble ideals which inspired our national struggle for freedom
(c) To abide by the Constitution and respect its ideals and institutions, the National Flag, National Anthem
(d) To uphold and protect the sovereignty, unity and integrity of India

Answer: (a)

12. Who became the first Indian woman to be inducted into the ICC Hall of Fame?

(a) Jhulan Goswami
(b) Mithali Raj
(c) Diana Edulji
(d) Purnima Rau

Answer: (c)

13. Andal was one of the most famous women _____ saints.

(a) Tantric
(b) Alvar
(c) Nayanar
(d) Sufi

Answer: (b)

14. How many gold medals did Maharashtra win to top the medal tally at the 37 th National Games event held in Goa?

(a) 69
(b) 79
(c) 72
(d) 80

Answer: (d)

15. Revenue account includes items related to the __ __.

(a) next financial year
(b) all of the given options
(c) current financial year
(d) previous financial year

Answer: (b)

16. The Ashokan inscriptions of Afghanistan are written in Aramaic and _____ scripts.

(a) Ol Chiki
(b) Greek
(c) Devanagari
(d) Sharda

Answer: (b)

18. The original non-metamorphic rock that undergoes profound physical or chemical changes leading to the formation of a metamorphic rock is known as:

(a) Protolith
(b) Bedrock
(c) Laterite
(d) Regolith

Answer: (a)

19. Which of the following are the amounts of nutrients in a keto diet?

(a) High carbohydrate, proper amount of protein and low fat

(b) High amount of fat, adequate protein and low carbohydrate

(c) High protein and fat, carbohydrates in a low amount

(d) Only taking high number of vitamins and minerals

Answer: (b)

20. Which of the following is NOT a cropping season in India?

(a) Kharif

(b) Zaid

(c) Fang

(d) Rabi

Answer: (c)

21. As per Census of India 2011, which of the following states has the highest child sex ratio (in the age group of 0-6 years)?

(a) Kerala

(b) Rajasthan

(c) Chhattisgarh

(d) Mizoram

Answer: (d)

22. The 'Rath Yatra' festival of Puri is celebrated as t sacred journey of which of the following Hindu deities?

(a) Lord Rama

(b) Lord Brahma

(c) Lord Shiva

(d) Lord Jagannath

Answer: (d)

23. Who is the chairman of the State Planning Board?

(a) Speaker

(b) Advocate General

(c) Chief Minister

(d) Governor

Answer: (c)

24. In January 2023, who was sworn in as the Chief Minister of Bihar for the ninth time?

(a) Nitish Kumar

(b) Lalu Yadav

(c) Tejaswi Yadav

(d) Sushil Modi

Answer: (a)

25. Which of the following options correctly matches column-A with column-B? Column-A (Name of Vitamin) Column-B (Deficiency Diseases)
i. Vitamin A a. Scurvy
ii. Vitamin D b. Beriberi
iii. Vitamin B1 c. Rickets
iv. Vitamin C d. Night Blindness

(a) i-d, ii-c, iii-a, iv-b
(b) i-c, ii-d, iii-b, iv-a
(c) i-d, ii-c, iii-b, iv-a
(d) i-c, ii-d, iii-a, iv-b

Answer: (c)

English Language and Comprehension

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

Evasive

(a) Truthful
(b) Elusive
(c) Obscure
(d) Chaotic

Answer: (a)

2. Select the option that expresses the given sentence in simple future tense form.

I loved.

(a) I had loved.
(b) I will love.
(c) I shall be loving.
(d) I love.

Answer: (b)

3. Select the most appropriate synonym of the word 'isolated' from the given sentence.

A Greek mythological story says that Echo was the most beautiful nymph who lived in the lovely and lonely mountains of Greece and is believed to be garrulous too.

(a) Garrulous
(b) Lonely
(c) Lovely
(d) Beautiful

Answer: (b)

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

"It's really _____ to incorporate changes at the last minute," she said.

(a) difficulties
(b) difficulty
(c) difficult
(d) most difficult

Answer: (c)

5. In the following sentence the underlined part contains as error. Alternatives to the underlined part are given as options. Select the correct alternative. The speech you made today was sillier and irrelevant.

(a) silly
(b) silliest
(c) most silly
(d) more silly

Answer: (a)

6. The given sentence is divided into three segments. Select the option that has the segment with a grammatical error. If there is no error, select 'No error'. She learnt / how to play a piano / when she was in Class 6 th .

(a) She learnt
(b) No error
(c) how to play a piano
(d) when she was in Class 6 th .

Answer: (c)

7. Select the option that rectifies the spelling of the underlined word in the given sentence.

She always wears a bizzare combination of clothes.

(a) Bizzar
(b) Bizarre
(c) Bizare
(d) Bizaar

Answer: (b)

8. Select the INCORRECTLY spelt word.

(a) Cuorse
(b) Necessary
(c) Consider
(d) Personal

Answer: (a)

9. Select the most appropriate idiom to fill in the blank. Despite the setbacks, the team decided to persevere and keep working on the project, believing it could be a _____ for their company.

(a) game-changer
(b) beat around the bush
(c) needle in a haystack
(d) wild goose chase

Answer: (a)

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

Merciful

(a) Mild
(b) Cruel
(c) Magical
(d) Cunning

Answer: (b)

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

An axe to grind

(a) To make a supreme effort
(b) Bitterly hostile
(c) To have a selfish reason that influences the a ns
(d) To tackle a problem in a bold and direct fash

Answer: (c)

12. Select the correctly spelt word.

(a) Recieve
(b) Embarrassment
(c) Ocassion
(d) Acommodate

Answer: (b)

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

It is worth noting that the possible from him being voted as the class monitor is next to zero.

(a) possibly of him
(b) possibility at him
(c) possible of him
(d) possibility of him

Answer: (d)

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

The judge declared that the red car went _____ than the blue car.

(a) more far
(b) far
(c) farther
(d) farthest

Answer: (c)

17. The following sentence has been divided into four segments. One of them contains an error. Select the segment that contains the error from the given options. She has been speaking / to him on / the subject / many times.

(a) many times
(b) the subject
(c) to him on
(d) She has been speaking

Answer: (d)

18. 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'.

She showed this plant and talked about it's medicinal properties.

(a) their medical properties
(b) it's medical proprieties
(c) it's medical properties
(d) its medicinal properties

Answer: (d)

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

Diligent

(a) Noisy
(b) Positive
(c) Industrious
(d) Lazy

Answer: (c)

20. Select the most appropriate ANTONYM of the word 'yelling' in the given sentence.

The shouting and exclaiming gestures of Smita led to the whispering regarding her behaviour, and everyone in the party started monitoring her.

(a) whispering
(b) shouting
(c) monitoring
(d) exclaiming

Answer: (a)

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.
>
> In a small village, lived a milkmaid _____1_____ sold the milk that she ____2_____ from her cows. She _____3_____ carry the milk in a big mud pitcher. One day, as she was walking _____4_____ the big pitcher full of milk on her head, she started to imagine all the things she wished to do with the money she would _____5_____ from selling the milk.

21. Select the most appropriate option to fill in blank number 1.
    (a) whose
    (b) who
    (c) which
    (d) that

    Answer: (b)

22. Select the most appropriate option to fill in blank number 2.
    (a) drank
    (b) brought
    (c) bought
    (d) got

    Answer: (d)

23. Select the most appropriate option to fill in blank number 3.
    (a) should
    (b) will
    (c) can
    (d) would

    Answer: (d)

24. Select the most appropriate option to fill in blank number 4.
    (a) by
    (b) on
    (c) in
    (d) with

    Answer: (d)

25. Select the most appropriate option to fill in blank number 5.
    (a) earn
    (b) throw
    (c) dig
    (d) catch

    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	**(d)**	2	**(c)**	3	**(b)**	5	**(a)**	7	**(d)**	9	**(d)**
10	**(c)**	11	**(b)**	12	**(a)**	15	**(b)**	16	**(b)**	19	**(c)**
20	**(b)**										

Reasoning Ability and Problem Solving

1	**(a)**	5	**(b)**	6	**(c)**	7	**(b)**	8	**(a)**	9	**(b)**
10	**(a)**	11	**(a)**	13	**(c)**	14	**(a)**	16	**(a)**	17	**(a)**
18	**(c)**	20	**(d)**								

General Awareness

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

English Language and Comprehension

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