PREVIOUS YEAR PAPER

SSC MTS 2024 — 13 November 2024, Shift 2

SSC MTS & Havaldar · 13 November 2024 · 12:30 PM - 2:30 PM

75 of the paper's 90 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 13 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-2024-13-nov-shift-2/

Numerical and Mathematical Ability

2. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 71 kg and 36 kg is:

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

Answer: (d)

4. A shopkeeper mixes three types of pulses costing ₹९९/kg,₹72/kg and₹62/kg in the ratio of 5 : 2 : 3. The average cost (in₹) of the mixture per kg is:

(a) 77
(b) 84
(c) 89
(d) 97

Answer: (a)

5. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 71 kg and 35 kg is:

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

Answer: (b)

7. The ratio of two numbers is 15 : 26. If the difference between the numbers is 352, then find the smallest number.

(a) 840
(b) 832
(c) 480
(d) 238

Answer: (c)

9. What sum (in ₹) will earn a simple interest of ₹240 in 4 years at 4% per year rate of interest?

(a) 2000
(b) 750
(c) 1500
(d) 3000

Answer: (c)

10. Find the simple interest (in ₹) on ₹2000 as a sum borrowed at 6% per year rate of interest for 4 years.

(a) 520
(b) 480
(c) 440
(d) 420

Answer: (b)

11. Two trains start at the same time from Agra and Meerut and proceed towards each other at speeds of 16 km/h and 32 km/h, respectively. When they meet, it is found that one train has travelled 64 km more than the other. The distance between the two stations is:

(a) 208km
(b) 176km
(c) 192km
(d) 156km

Answer: (c)

14. A thief Rohan is spotted by a policeman Ramesh from a distance of 250 m. When they see each other, they start running. How much distance is covered by Rohan, who is running at the speed of 20 km/h, before being caught by Ramesh, who is running at the speed of 25 km/h?

(a) 4 km
(b) 3 km
(c) 2 km
(d) 1 km

Answer: (d)

15. Annu buys a dress from an online designer portal during a festival sale, marked at a price of ₹ 9,600. She gets a 15% festive discount and a further 10% discount on checkout as it is her first order from the site. How much did she actually pay for the dress?

(a) ₹7,934
(b) ₹8,160
(c) ₹7,344
(d) ₹7,554

Answer: (c)

16. A certain shopping site gave successive discounts of 20% and 30% on purses during a new year sale. What is the actual discount received by the customer?

(a) 44%

(b) 39%

(c) 47%

(d) 41%

Answer: (a)

17. A shopkeeper sells one-fourth of his items at a loss of 12%, one-third of the remaining items at a profit of 44%, and the rest at a loss of 7%. What is his overall profit/loss percentage?

(a) 4.5% loss

(b) 4.5% gain

(c) 2% gain

(d) 2% loss

Answer: (b)

18. The radius of a circle is equal to the side of a square. The perimeters of the square and circle are in the ratio 7 : 11, then the ratio of the areas will be:(Use π = 22/7)

(a) 22 : 14

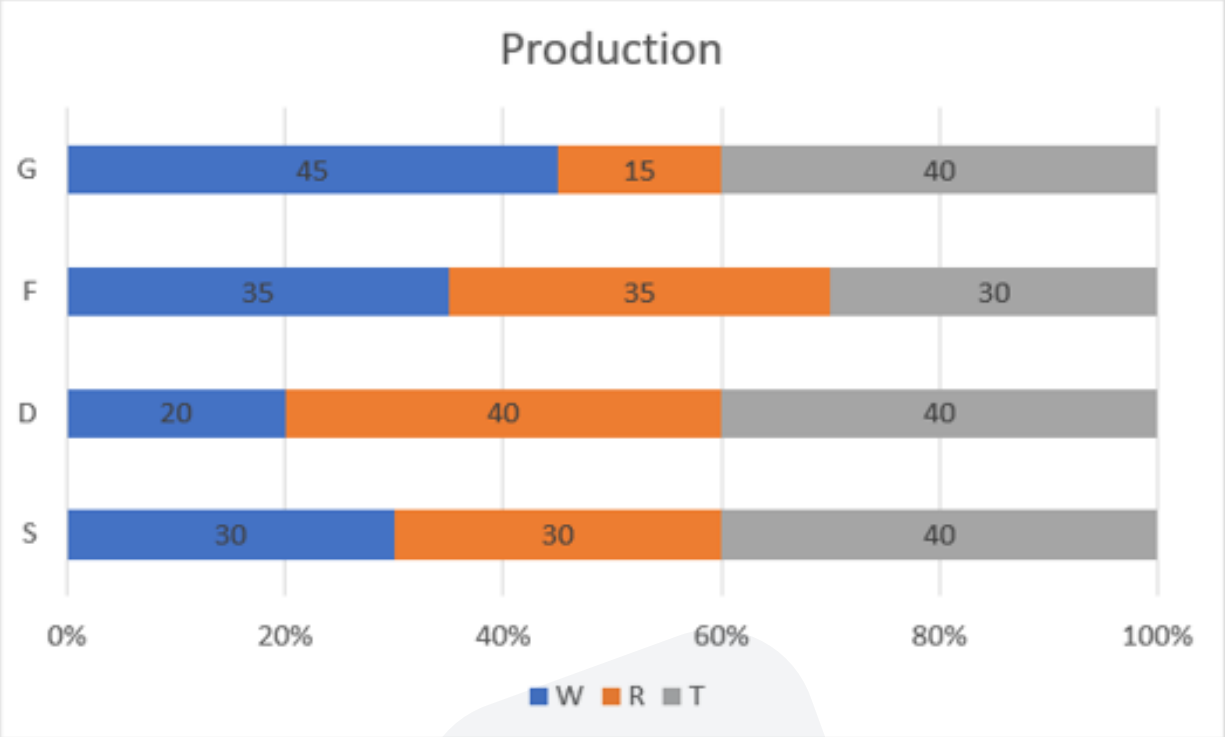
(b) 14 : 22

(c) 22 : 7

(d) 7 : 22

Answer: (d)

19. Study the given graph and answer the question that follows. The graph shows the data of production of items: W, R and T by four companies: S, D, F and G as percentage of their total productions.



If the total productions of F and S are 2000 and 3000 respectively, the difference in the productions of R by these companies is:

(a) 200
(b) 150
(c) 250
(d) 100

Q.20

1. 8,950

2. 9,380

3. 9,000

Answer: (a)

Reasoning Ability and Problem Solving

1. Three statements are given, followed by two conclusions numbered 1 and 2. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements. Statements: All Mangoes are Kiwis All Kiwis are Guavas No Guava is an Apple Conclusions:
1. All Apples are Mangoes
2. Some Guavas are Apples

(a) Only conclusion 1 follows

(b) Both conclusions 1 and 2 follow

(c) Neither conclusion 1 nor 2 follows

(d) Only conclusion 2 follows

Answer: (c)

3. 146 is related to 208.4 following a certain logic. Following the same logic, 112 is related to 174.4. To which of the following is 135 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 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3is not allowed.)

(a) 188.4

(b) 197.4

(c) 192.4

(d) 179.4

Answer: (b)

4. Read the given statements and conclusi[illegible]ly. Assuming that the information given in the statements is true, even if it appears to be at v[illegible]e with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. Statements:
A. Some dogs are frogs.
B. Some swans are dogs. Conclusions:
I. Some frogs are swans.
II. No dogs are swans.

(a) Only conclusion II follows.

(b) Only conclusion I follows.

(c) None of the conclusions follow.

(d) Both the conclusions follow.

Answer: (c)

6. M, N, O, P, Q, R and S are sitting around a circular table facing the centre (but not necessarily in the same order). Q sits second to the right of M. P sits third to the left of M. N is an immediate neighbour of S and P. R is not an immediate neighbour of P. Who sits third to the left of R ?

(a) N

(b) O

(c) S

(d) M

Answer: (a)

7. In a certain code language, ‘GAVE’ is coded as ‘7485’ and ‘CAGE’ is coded as ‘4589’. What is the code for ‘C’ in that language?

(a) 5
(b) 9
(c) 8
(d) 7

Answer: (b)

9. In a certain code language, ‘FISH’ is coded as ‘8426’ and ‘SAND’ is coded as ‘5749’.What is the code for ‘S’ in the given code language?

(a) 9
(b) 5
(c) 2
(d) 4

Answer: (d)

10. Find the missing term in the below series: F, I, K, N, P, ?, U.

(a) R
(b) T
(c) V
(d) S

Answer: (d)

11. In a certain code language, ‘GAME’ is coded as ‘ 9’ and ‘META’ is coded as ‘7942’. What is the code for ‘T’ in that language?

(a) 4
(b) 5
(c) 9
(d) 7

Answer: (a)

12. UMSO is related to RJPL in a certain way based on the English alphabetical order. In the same way, QIOK is related to NFLH. To which of the following is MEKG related, following the same logic?

(a) JBHD
(b) JBDH
(c) BJDH
(d) BJHD

Answer: (a)

13. KL42 is related to PQ50 in a certain way. In the same way, RS52 is related to WX60. To which of the following is DE62 related, following the same logic?

(a) IK17
(b) IG17
(c) JI70
(d) IJ70

Answer: (d)

14. What should come in place of '?' in the given series?

13, 24, 75, 296, 1485, ?

(a) 7430
(b) 7420
(c) 8916
(d) 8904

Answer: (d)

15. Six players Jadeja, Ashwin, Karthik, Murli, Sarfaraz and Virat are sitting around a circular table, facing the centre (but not necessarily in the same order). Virat is sitting to the immediate right of Jadeja. Only Sarfaraz is sitting between Virat and Murli. Jadeja is an immediate neighbour of Ashwin. Who is immediate neighbour of both Sarfaraz and Jadeja?

(a) Karthik
(b) Ashwin
(c) Murli
(d) Virat

Answer: (d)

17. What will come in the place of the question mark (?) in the following equation if '+' and '–' are interchanged and '×' and '÷' are interchanged? 75 ÷ 27 × 27 + 93 – 20 = ?

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

Answer: (c)

18. What will come in place of the question mark (?) in the following equation if '+' and '–' are interchanged and '×' and '÷' are interchanged? 24 ÷ 6 + 18 × 9 – 2 = ?

(a) 155
(b) 144
(c) 122
(d) 166

Answer: (b)

20. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (10, 8, 65) (16, 6, 81) (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 /deleting /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) (5, 15, 65)

(b) (12, 4, 114)

(c) (4, 9, 16)

(d) (7, 5, 20)

Answer: (d)

General Awareness

1. What is the tenure of a Governor?

(a) 6 years

(b) 5 years

(c) 10 Years

(d) 2 years

Answer: (b)

2. The Government of India in collaboration with _____ has launched the Skills on Wheels mission in Oct 2023 for equipping rural youth with em' yable skills.

(a) NABARD

(b) HDFC Bank

(c) IndusInd Bank

(d) ICICI Bank

Answer: (c)

3. Who appointed the 'Hunter Commission' for Educational Reforms in 1882?

(a) John Lawrence

(b) Robert Lytton

(c) Lord Ripon

(d) Lord Ellenborough

Answer: (c)

4. _____ was an Indian mandolinist who was a master composer of the Carnatic style of classical music.

(a) Kunnakudi Vaidyanathan

(b) Uppalapu Srinivas

(c) R Prasanna

(d) Narasimhan Ravikiran

Answer: (b)

6. According to the census of India 2011, which union territory of India has the highest literacy rate?

(a) Chandigarh
(b) Lakshadweep
(c) Delhi
(d) Puducherry

Answer: (b)

7. Which local storm is also known as 'Kalbaisakhi'?

(a) Mango Shower
(b) Blossom Shower
(c) Loo
(d) Nor Westers

Answer: (d)

8. During the framing of the Indian Constitution, the Constituent Assembly held a total of eleven sessions, with sittings spread over for how many days?

(a) 115
(b) 180
(c) 165
(d) 132

Answer: (c)

9. Which of the following sectors engaged the larges ercentage of women workers in the year 2019-2020?

(a) Service
(b) Industry
(c) Mining
(d) Agriculture

Answer: (d)

10. In which of the following dance performance is the main percussion instrument Edakka used?

(a) Odissi
(b) Bharatanatyam
(c) Mohiniattam
(d) Kathak

Answer: (c)

11. Which poet composed the Allahabad Prashasti of Samudragupta?

(a) Vatsbhatti
(b) Vasul
(c) Harisena
(d) Banabhatta

Answer: (c)

12. Which substance is commonly added to tap water to make it safe for drinking by killing harmful microorganisms?

(a) Chlorine
(b) Calcium
(c) Fluoride
(d) Iron

Answer: (a)

13. For most of the ecosystem, what is the primary source of energy?

(a) Wind
(b) Water
(c) Sunlight
(d) Geothermal energy

Answer: (c)

14. How many artists are selected for the one-time Sangeet Natak Akademi Amrit Award, 2022?

(a) 75
(b) 60
(c) 86
(d) 100

Answer: (c)

15. Which Indian state's cabinet approved the proposal for recommending the inclusion of the Kui language in the eighth schedule in July 2023?

(a) Tamil Nadu
(b) West Bengal
(c) Karnataka
(d) Odisha

Answer: (d)

16. The title of the autobiography of famous cricketer of Pakistan Imran Khan is:

(a) Goal
(b) My Fight / Your Fight
(c) Game Changer
(d) All Round View

Answer: (d)

17. Which of the following sessions of the Indian National Congress was headed by Sarojini Naidu?

(a) Lahore, 1929
(b) Madras, 1927
(c) Kanpur, 1925
(d) Karachi, 1931

Answer: (c)

19. Major Dhyan Chand Khel Ratna Award is given for the spectacular and most outstanding performance in the field of sports by a sportsperson over a period of the previous four years. In 2021, the awardee for para shooting was:

(a) Neeraj Chopra
(b) Avani Lekhara
(c) Chanu Saikhom Mirabai
(d) Anju Bobby George

Answer: (b)

20. Which region in India has the highest concentration of Iron and Steel Industry?

(a) Deccan Plateau
(b) Chotanagpur plateau
(c) Telangana Plateau
(d) Aravali region

Answer: (b)

21. The concept of the Self-Help Group Bank Linkage Program was introduced by:

(a) RBI
(b) SIDBI
(c) NABARD
(d) SBI

Answer: (c)

22. In which of the following types of regions, is the maximum temperature variation observed between a day and the same night?

(a) Coastal area
(b) Island
(c) Peninsula
(d) Desert

Answer: (d)

23. Which of the following statements is/are true about the Cholas? 1 The capital of the Chola kingdom was Tanjore. 2 Vikram Chola had in his veins the blood of the Cholas and Eastern Chalukyas. 3 Rajendra I Chola is known as Gangaikonda Chola.

(a) Only 1 and 2
(b) Only 2 and 3
(c) All 1, 2 and 3
(d) Only 1 and 3

Answer: (c)

24. Which festival is celebrated as the birth anniversary of Prophet Muhammad?

(a) Id-ul-zuha
(b) Shab-i-barat
(c) Eid-ul-fitr
(d) Milad-un-nabi

Answer: (d)

25. Which famous monument of Vijayapura has a Whispering Gallery, where subtle sounds can be heard clearly even from a distance of 37 metres?

(a) Gol Gumbaz
(b) Gagan Mahal
(c) Upli Buruj
(d) Saath Kabar

Answer: (a)

English Language and Comprehension

1. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. They worked / very hardly / on their project / for several weeks.

(a) for several weeks
(b) They worked
(c) on their project
(d) very hardly

Answer: (d)

2. Select the INCORRECTLY spelt word..

(a) Accommodate
(b) Conscientiousness
(c) Persevrence
(d) Exaggerate

Answer: (c)

3. Select the correctly spelt word to fill in the blank and make the sentence meaningful.

Before retiring, Kaul had been teaching physics at the university for three _____.

(a) edecamals
(b) decadents
(c) decades
(d) decimals

Answer: (c)

4. Select the most appropriate word segment that can replace the underlined part in the sentence.

The two thieves divided the looted money with themselves.

(a) of themselves
(b) between themselves
(c) among themselves
(d) off themselves

Answer: (b)

5. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

Manoj has a bigger / farmhouse of one hundred / hectares near the city.

(a) Manoj has a bigger
(b) farmhouse of one hundred
(c) No error
(d) hectares near the city.

Answer: (a)

6. Select the most appropriate option to fill in the blank and complete the given idiom.

That's great! You keep everything under your _____ _____.

(a) hands
(b) eyes
(c) legs
(d) thumb

Answer: (d)

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

I am not going to pay a _____ for this broken CD.

(a) cent
(b) scent
(c) send
(d) sent

Answer: (a)

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

The _____ of the novel kept me hooked from the beginning to the end.

(a) plot
(b) settlement
(c) orchestra
(d) archaic

Answer: (a)

9. In the following sentence the underlined part contains an error. Alternatives to the underlined part are given as options. Select the correct alternative. Poverty is the urgent concern in India today.

(a) urgenter
(b) urgentest
(c) more urgent
(d) most urgent

Answer: (d)

10. Select the most appropriate synonym of the given word. Destroy

(a) Ruin
(b) Decline
(c) Fabricate
(d) Delight

Answer: (a)

11. Select the most appropriate synonym of the given word. Whim

(a) Fancy
(b) Factualness
(c) Bloodiness
(d) Antiquity

Answer: (a)

12. The given sentence is divided into four segments. Select the option that has the segment with a grammatical error. He has / no / influence about / me

(a) influence about
(b) me.
(c) he has
(d) no

Answer: (a)

13. In the following sentence the underlined part contains as error. Alternatives to the underlined part are given as options. Select the correct alternative. The water near the coast was shallower and clean.

(a) shallowest
(b) more shallow
(c) the shallowest
(d) shallow

Answer: (d)

14. Select the option that can be used as a one-word substitute for the given group of words. The land that is best suitable for growing crops

(a) Fruitful
(b) Barren
(c) Arable
(d) Rustic

Answer: (c)

15. Select the INCORRECTLY spelt word.

(a) Secresy
(b) Luggage
(c) Hypocrisy
(d) Cruelly

Answer: (a)

16. Select the most appropriate meaning of the given idiom. My hands are full

(a) To go directly towards something
(b) To be very busy
(c) To panic
(d) To dislike someone

Answer: (b)

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

(a) Force
(b) Appeal
(c) Pacify
(d) Aggravate

Answer: (c)

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

Benevolent

(a) Opulent
(b) Eminent
(c) Malevolent
(d) Violent

Answer: (c)

19. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. His artwork is / more intricate / than any artist / in the gallery.

(a) more intricate
(b) His artwork is
(c) than any artist
(d) in the gallery

Answer: (c)

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

Autumn leaves shuffled beneath him as he wandered through the quiet forest.

(a) died over
(b) rustled underfoot
(c) crushed around
(d) moved to another place

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.
>
> The eye of an ostrich is larger than its brain. Of all birds, ostriches have the 1._____ eyes. Their eyes are the size of a pool ball, measuring around 2 inches in diameter. Their size is five times greater than that of human eyes. Ostriches have excellent vision, so their enormous eyes aren't just for show. Because of their height and keen 2._____, the birds can see well over great distances, enabling them to identify potential 3._____ before they approach. In general, compared to mammals of comparable size, birds often have smaller brains. Ostrich brains are approximately 1.5 inches in width, the study found. Additionally, their average brain weight is almost 17 times lower than that of the three other 4._____. When comparing the brain-to-body weight ratio of the other birds, the ostrich's brain was lighter than their body weight. Some other facts concerning these birds are what set them apart. All other birds have three or four toes; this magnificent cre ure has only two. Ostriches bend their knees in a forward orientation; thus, they kick forward rathe n backward. Furthermore, ostriches do not require water because they produce some of it interr / and obtain the 5._____ from the plants they consume.

21. Select the most appropriate option for bl

(a) biggest
(b) more big
(c) bigger
(d) big

Answer: (a)

22. Select the most appropriate option for blank 2.

(a) illusion
(b) vision
(c) delusion
(d) allusion

Answer: (b)

24. Select the most appropriate option for blank 4.

(a) property
(b) species
(c) case
(d) typical

Answer: (b)

25. Select the most appropriate option for blank 5.

(a) lesser

(b) each

(c) every

(d) remainder

Answer: (d)

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)**	4	**(a)**	5	**(b)**	7	**(c)**	9	**(c)**	10	**(b)**
11	**(c)**	14	**(d)**	15	**(c)**	16	**(a)**	17	**(b)**	18	**(d)**
19	**(a)**										

Reasoning Ability and Problem Solving

1	**(c)**	3	**(b)**	4	**(c)**	6	**(a)**	7	**(b)**	9	**(d)**
10	**(d)**	11	**(a)**	12	**(a)**	13	**(d)**	14	**(d)**	15	**(d)**
17	**(c)**	18	**(b)**	20	**(d)**						

General Awareness

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

English Language and Comprehension

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