PREVIOUS YEAR PAPER

SSC MTS 2021 — 13 July 2022, Shift 3

SSC MTS & Havaldar · 13 July 2022 · 5:00 PM - 6:30 PM

86 of the paper's 100 questions · marks per question not printed on the response sheet

Left out of the original paper: 14 (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 July 2022, 5:00 PM - 6:30 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-2021-13-jul-shift-3/

General English

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

The pirates will try to _____ the gold ornaments.

(a) cease
(b) seize
(c) slice
(d) steel

Answer: (b)

2. Select the most appropriate word for the given gro of words.

One who collects coins

(a) Bibliophile
(b) Enthusiast
(c) Philatelist
(d) Numismatist

Answer: (d)

3. Select the most appropriate synonym of the underlined word in the given sentence.

I may sound crazy but I am not an imbecile.

(a) Credible
(b) Prudent
(c) Dunce
(d) Sage

Answer: (c)

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

Rescuers used a special device for finding people _____ in collapsed buildings.

(a) conquered
(b) trapped
(c) exceeded
(d) blossomed

Answer: (b)

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

If nature _____ to degrade, the world's economic output will suffer sooner or later.

(a) Continues
(b) Continue
(c) Continued
(d) continuing

Answer: (a)

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

He pays me six dollars the month of this house.

(a) No improvement required
(b) an month for these
(c) a month over this
(d) a month for this

Answer: (d)

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

Fatal

(a) Luminous
(b) Restorative
(c) Serene
(d) Deadly

Answer: (d)

8. Select the most appropriate synonym of the underlined word from the given sentence.

He leaned left, bringing the blunt side of his sword up flat against his palm.

(a) sharp
(b) dull
(c) timid
(d) keen

Answer: (b)

9. Select the INCORRECTLY spelt word.

(a) Accede
(b) Accost
(c) Abstruce
(d) Abnegation

Answer: (c)

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

A large bundle bound for storage or transport

(a) Antagonist
(b) Belligerent
(c) Bale
(d) Apiary

Answer: (c)

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

She was stuck in his imagination for many a hour as a force to be reckoned with.

(a) his imagination for many hour as a force
(b) his imagination for many an hour as a force
(c) his imagination for many an hours as a force
(d) No improvement required

Answer: (b)

12. Select the most appropriate meaning of the underlined idiom.

Does my name ring a bell for you?

(a) To sound familiar
(b) To be very frightened
(c) To take advantage
(d) To mock someone

Answer: (a)

13. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required.'

The laws of nature are unbiased, ensuring that each person benefits from its bounties.

(a) No substitution required
(b) were unbiased
(c) is unbiased
(d) was unbiased

Answer: (a)

14. 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.

How the students approach / education today has / altered significant.

(a) altered significant
(b) education today has
(c) No error
(d) How the students approach

Answer: (a)

16. Select the correctly spelt word.

(a) Definitely
(b) Definately
(c) Defenately
(d) Difinately

Answer: (a)

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

I am planning a get together _____ Monday.

(a) at
(b) upon
(c) along
(d) on

Answer: (d)

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

Vicious

(a) Influential
(b) Gentle
(c) Privileged
(d) Poor

Answer: (b)

19. 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.

All the problems occurred / because she does not / hear my wordsfollow the instructions.

(a) because she does not
(b) All the problems occurred
(c) No error
(d) follow the instructionshear my words

Answer: (a)

20. Parts of the given sentence have been given as options. 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.

I like reading fictional stories besides write poems.

(a) No error
(b) fictional stories besides
(c) write poems
(d) I like reading

Answer: (c)

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.
>
> No matter how (1) _____ time you (2) _____ to improve your mental and emotional health, you will still need the company of (3) _____ to feel and function at your best. Humans are social (4) _____ with emotional needs for relationships and positive connections to others. We're not meant to survive, (5) _____ alone thrive, in isolation.

21. Select the most appropriate option to fill in blank No. (1)

(a) many
(b) great
(c) more
(d) much

Answer: (d)

22. Select the most appropriate option to fill in blank No. (2)

(a) devote
(b) promote
(c) assess
(d) proceed

Answer: (a)

23. Select the most appropriate option to fill in blank No. (3)

(a) some
(b) any
(c) others
(d) few

Answer: (c)

24. Select the most appropriate option to fill in blank No. (4)

(a) kingdoms
(b) populations
(c) creatures
(d) lives

Answer: (c)

25. Select the most appropriate option to fill in blank No. (5)

(a) have
(b) lest
(c) let
(d) get

Answer: (c)

General Intelligence and Reasoning

1. In a certain code language, 'GOAL' is coded as '917314', and 'PBKS' is coded as '1841321'. How will 'HAMD' be coded in that language?

(a) 101356
(b) 101365
(c) 103165
(d) 103156

Answer: (d)

2. After interchanging the given two signs × and –, what will be the value of the given expression?

10 + 5 – 6 ÷ 2 × 5

(a) 30
(b) 35
(c) 20
(d) 25

Answer: (c)

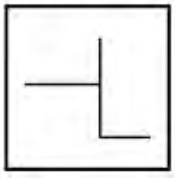
3. In a certain code language, 'he is sick' is written as 'blue red pink', 'he wants apple' is written as 'green violet red', and 'apple is tasty' is written as 'blue green yellow'. How will 'tasty' be written in that language?

(a) Violet
(b) Blue
(c) Yellow
(d) Pink

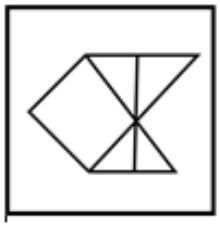
Answer: (c)

4.

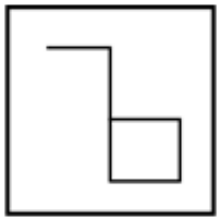
Select the option in which the given figure is embedded (rotation is NOT allowed).



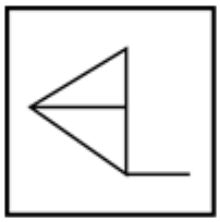
(a)



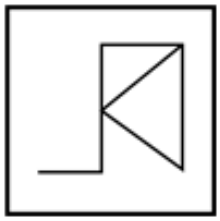
(b)



(c)



(d)



Answer: (c)

5. Which two numbers need to be interchanged to make the following equation correct?

22 − 9 ÷ 5 + 10 × 1 = 29

(a) 22 and 10

(b) 5 and 1

(c) 10 and 9

(d) 5 and 10

Answer: (c)

6.

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



(a)



(b)



(c)



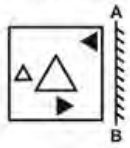
(d)



Answer: (d)

7.

Select the correct mirror image of the given figure when the mirror is placed to its right side.



(a)



(b)



(c)



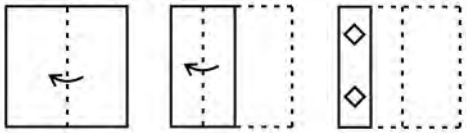
(d)



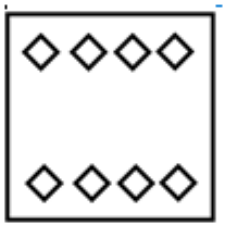
Answer: (b)

8.

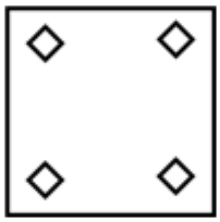
The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



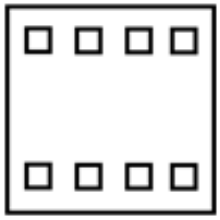
(a)



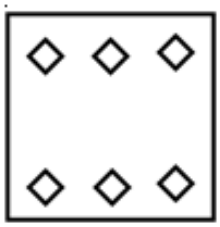
(b)



(c)



(d)



Answer: (a)

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

137, 125, 113, 101, ?

(a) 87

(b) 84

(c) 86

(d) 89

Answer: (d)

10. Select the option that is related to the fifth term in the same way as the second term is related to the first term and the fourth term is related to the third term.

ABC2 : ZYX7 :: PQR21 : KJI26 :: MNO11 : ?

(a) NML16
(b) KLM14
(c) NLM14
(d) MKL16

Answer: (a)

12. Four girls A, B, C, and D are sitting in a row, facing towards the south (but not necessarily in the same order). Four boys P, Q, R and S are sitting in a row, facing towards the face of these girls (but not necessarily in the same order). P and C are diagonally opposite to each other. A is second to the right of C. S is the immediate neighbour of Q and R. C is facing R. Which of the following pairs of persons facing each other is definitely correct?

(a) DP
(b) BS
(c) AQ
(d) DS

Answer: (c)

13. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

AY, BX, ?, DV, EU, FT

(a) CV
(b) CW
(c) CE
(d) CU

Answer: (b)

14. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

347 : 14 :: 122 : 5 :: 244 : ?

(a) 12
(b) 10
(c) 8
(d) 14

Answer: (b)

15. Identify the number that does NOT belong to the following series.

414, 430, 462, 526, 664, 910

(a) 462

(b) 526

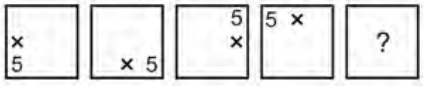
(c) 910

(d) 664

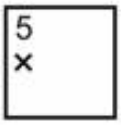
Answer: (d)

16.

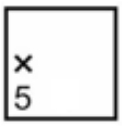
Select the figure from the given options that can replace the question mark (?) in the following series.



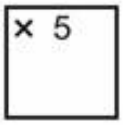
(a)



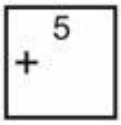
(b)



(c)



(d)



Answer: (b)

18. In a certain code language, 'Heat is waves' is coded as '7 6 @', and 'waves are dramatic not' is coded as '3 4 % 7'. What can be the code for 'Heat' in that language?

(a) %

(b) 4

(c) @

(d) 3

Answer: (c)

19. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

GP : KK :: MN : ?

(a) QI
(b) QJ
(c) RI
(d) RJ

Answer: (a)

20. Five professors A, B, C, D and E are sitting in a row facing the North (not necessarily in the same order). A is second to the left of D. Only two professors are sitting between C and E. No professor is sitting to the right of E. How many professors are sitting to the left of D?

(a) 3
(b) 0
(c) 2
(d) 1

Answer: (c)

21. Select the option in which the numbers are related in the same way as are the numbers of the following sets.

(8, 12, 48) (6, 18, 54)

(a) (6, 12, 48)
(b) (4, 8, 12)
(c) (6, 8, 30)
(d) (4, 8, 16)

Answer: (d)

22.

Select the figure from the options that can replace the question mark (?) and complete the pattern (rotation is NOT allowed).



(a)



(b)



(c)



(d)



Answer: (d)

23. 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:
I. No R is S. II. All X are R.

Conclusions: I. Some R are X.
II. Some S are X.
III. All X are S.

(a) Only conclusion III follows

(b) Only conclusion I follows

(c) None of the conclusions follow

(d) Only conclusion II follows

Answer: (b)

24. In a certain code language, '321' means 'hot branded milk', '653' means 'nice hot day', '985' means 'day and night', then what is the code for 'nice' in the same code language?

(a) 9
(b) 3
(c) 5
(d) 6

Answer: (d)

25. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

PRA : SUZ :: GOS : ?

(a) JRU
(b) JSU
(c) JRH
(d) JSH

Answer: (c)

Numerical Aptitude

1.

The average of 20 numbers is 36. If each number is increased by 4, what will be the new average?

(a)
44
(b)
46
(c)
40
(d)
36

Answer: (c)

2.

Ketan and Kunal can complete a job together in 7 days. Kunal is $\frac{7}{4}$ times as efficient as Ketan. In how many days can Kunal alone complete the job?

(a)

12 days

(b)

14 days

(c)

10 days

(d)

11 days

Answer: (d)

4.

If the length of one side of a rectangle is twice that of the other side, and its perimeter is 54 cm, then what is the length of the longer side of this rectangle?

(a)

14 cm

(b)

9 cm

(c)

27 cm

(d)

18 cm

Answer: (d)

5.

A sum of money, invested at a certain rate of simple interest per annum, amounts to ₹720 in 4 years and to ₹800 in 5 years. The sum invested is:

(a)

₹400

(b)

₹600

(c)

₹500

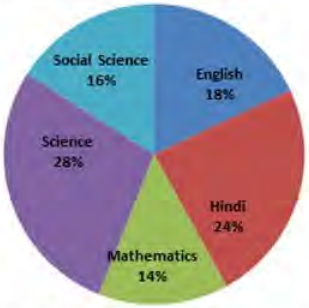
(d)

₹360

Answer: (a)

8.

The following pie chart shows the share of the marks scored by Rahul in an examination in each of 5 different subjects — English, Hindi, Mathematics, Science and Social Science — as percentages of the total marks scored by Rahul in all the 5 subjects taken together.



What is the central angle showing the shares of the marks in Hindi and Social Science, taken together?

(a)

$186°$

(b)

$196°$

(c)

$144°$

(d)

$172°$

Answer: (c)

10.

Two vessels of equal capacity, and both completely filled, con[illegible] milk and water in the ratio of 5 : 1 and 6 : 5, respectively. Both the mixtures are now mixed thoroughly. Wha[illegible]o of milk to water in the new mixture so obtained?

(a)

$105 : 67$

(b)

$57 : 41$

(c)

$91 : 41$

(d)

$28 : 43$

Answer: (c)

12.

Akbar can complete a piece of work alone in 12 days, while Anthony can complete the same work alone in 20 days. If they work on alternate days with Anthony starting the work, then in how many days can they complete the whole work?

(a)

15 days

(b)

16 days

(c)

$14\frac{4}{5}$ days

(d)

$15\frac{1}{5}$ days

Answer: (d)

13.

A train can cross a 1200-metre-long bridge completely in 16 seconds. It can cross a 1600-metre-long bridge completely in 20 seconds. What is the speed of the train?

(a)

360 km/h

(b)

450 km/h

(c)

540 km/h

(d)

270 km/h

Answer: (a)

16.

In a class, the average weight of 4 boys is 50 kg and the average weight of 4 girls is 40 kg. What is the average weight of all the 8 students taken together?

(a)

44 kg

(b)

48 kg

(c)

45 kg

(d)

42 kg

Answer: (c)

17.

The following table shows the number of songs sung by 6 different singers and uploaded on a streaming website.

Singer	Songs
S1	20
S2	25
S3	15
S4	10
S5	30
S6	20

The average number of views per song for S1, S2 and S3 is 100. The average number of views per song for S4, S5 and S6 is 50. What is the total number of views for all the songs sung by all of the 6 different singers taken together?

(a)

8500

(b)

9000

(c)

9500

(d)

8000

Answer: (b)

18.

A man walks at 6 m/sec and reaches his destination in 20 minutes. A wor overs the same distance in 1.2 hours. What is the speed of the woman (in km/h)?

(a)

6

(b)

2

(c)

5

(d)

1

Answer: (a)

19.

Find the LCM of 63, 91 and 133.

(a)

16561

(b)

16651

(c)

11561

(d)

15561

Answer: (d)

20.

The price of onion increases by 12.5%. The consumption of onion also increases by 12.5%. What is the approximate percentage increase in the expenditure on account of the purchase of onions?

(a)

29.12%

(b)

24.82%

(c)

28.44%

(d)

26.56%

Answer: (d)

21.

The cost price of a saree to a person X was ₹100. Person X sells the saree to person Y at a profit of 10% and person Y then sells it to person Z at a loss of 10%. How much does person Z pay for the saree?

(a)

₹100

(b)

₹99

(c)

₹101

(d)

₹90

Answer: (b)

22.

The value of $(82^2 + 18 \times 26) \div 16$ is:

(a)
451.8
(b)
444.3
(c)
449.5
(d)
447.1

Answer: (c)

24.

Thrice the length of the diameter of a circle is 10 cm less than its circumference. What is the radius of the circle? [Use $\pi = \frac{22}{7}$]

(a)
28 cm
(b)
14 cm
(c)
70 cm
(d)
35 cm

Answer: (d)

General Awareness

1. Small Industries Development Bank of India (SIDBI) is regulated by _____.

(a) Indian Bank
(b) Reserve Bank of India
(c) ICICI Bank
(d) State Bank of India

Answer: (b)

3. As per the Preamble of the Constitution of India, India is a/an _____.

(a) oligarchy
(b) monarchy
(c) republic
(d) aristocracy

Answer: (c)

4. Which of the following universities was founded by Kumaragupta, the ruler of the Gupta dynasty?

(a) Delhi University
(b) Nalanda University
(c) Pune University
(d) Taxila University

Answer: (b)

5. Manika Batra is associated with which sport?

(a) Wrestling
(b) Badminton
(c) Boxing
(d) Table Tennis

Answer: (d)

6. According to the Constitution of India, there shall be a Comptroller and Auditor General of India who shall be appointed by the _____.

(a) Prime Minister of India
(b) Attorney General of India
(c) President of India
(d) Chief Justice of India

Answer: (c)

7. Khajuraho temple in Madhya Pradesh is an example of _____ style of temple architecture.

(a) Dravida
(b) Vesara
(c) Nagara
(d) Hoysala

Answer: (c)

8. When a cell divides by meiosis it produces _____ new cells.

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

Answer: (a)

10. The Inland Vessels Bill, 2021 is associated with the Ministry of _____.

(a) Jal Shakti
(b) Civil Aviation
(c) Home Affairs
(d) Ports, Shipping and Waterways

Answer: (d)

11. What was the original name of Swami Vivekananda?
    (a) Mula Sankara
    (b) Narendranath Dutta
    (c) Vardhamana
    (d) Nrusimha Bhan
    Answer: (b)

12. Limestone, chalk and marble are different forms of _____.
    (a) calcium carbonate
    (b) sodium carbonate
    (c) potassium carbonate
    (d) magnesium carbonate
    Answer: (a)

13. Which TMC candidate won the Ballygunge (West Bengal) by-poll election in April 2022?
    (a) Babul Supriyo
    (b) Amit Shah
    (c) Mamata Banerjee
    (d) Derek O'Brien
    Answer: (a)

14. Which of the following states has the highest rese s of haematite ore in India?
    (a) Rajasthan
    (b) Tamil Nadu
    (c) Maharashtra
    (d) Odisha
    Answer: (d)

15. Alarmel Valli is associated with which classical dance of India?
    (a) Manipuri
    (b) Sattriya
    (c) Kathak
    (d) Bharatanatyam
    Answer: (d)

16. 'Wings of Fire' is a famous autobiography of which Indian scientist?
    (a) Homi J Bhabha
    (b) CV Raman
    (c) APJ Abdul Kalam
    (d) Vikram Sarabhai
    Answer: (c)

17. In its longitudinal extent, the Himalaya consists of _____ parallel ranges.

(a) three
(b) five
(c) four
(d) two

Answer: (a)

18. Pulakesin I was the founder of _____ dynasty of South India.

(a) Chera
(b) Pandya
(c) Chalukya
(d) Chola

Answer: (c)

19. Which of the following cell organelles help to keep the cell clean by digesting any foreign material as well as worn-out cell organelles?

(a) Mitochondria
(b) Ribosome
(c) Lysosome
(d) Vacuole

Answer: (c)

20. Who among the following is a famous tennis play

(a) Neeraj Chopra
(b) Milkha Singh
(c) Mahesh Bhupathi
(d) TC Yohannan

Answer: (c)

21. The number of live births per thousand persons in a year is called _____.

(a) growth rate
(b) fertility rate
(c) death rate
(d) birth rate

Answer: (d)

22. According to the Socio-Economic Census 2015, which state has the largest population of households with 'destitute / living on alms'?

(a) Chhattisgarh
(b) Bihar
(c) Tamil Nadu
(d) Odisha

Answer: (d)

23. MS Subbulakshmi was a famous _____ singer of India.
    (a) Jazz
    (b) Carnatic
    (c) Hiphop
    (d) Rock

    Answer: (b)

24. Mangal Pandey was hanged to death for attacking British officers in Barrackpore on _____.
    (a) 21 March 1857
    (b) 23 March 1857
    (c) 31 March 1857
    (d) 29 March 1857

    Answer: (d)

25. Pandit Birju Maharaj who passed away in January 2022 was related with which classical dance of India?
    (a) Bharatanatyam
    (b) Kuchipudi
    (c) Sattriya
    (d) Kathak

    Answer: (d)

Answer key

Answer key as marked in the Staff Selection Commission's response sheet. "—" means the sheet did not show it clearly.

General English

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

General Intelligence and Reasoning

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

Numerical Aptitude

1	**(c)**	2	**(d)**	4	**(d)**	5	**(a)**	8	**(c)**	10	**(c)**
12	**(d)**	13	**(a)**	16	**(c)**	17	**(b)**	18	**(a)**	19	**(d)**
20	**(d)**	21	**(b)**	22	**(c)**	24	**(d)**				

General Awareness

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