PREVIOUS YEAR PAPER

SSC MTS 2021 — 22 July 2022, Shift 3

SSC MTS & Havaldar · 22 July 2022 · 5:00 PM - 6:30 PM

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

Left out of the original paper: 17 (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 22 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-2021-22-jul-shift-3/

General English

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

In exactly the same words as were used originally

(a) Imprecise
(b) Strict
(c) Neutral
(d) Verbatim

Answer: (d)

2. Parts of the following sentence have been given as tions. One of them may contain an error. Select the part that contains the error from the given tions. If you don't find any error, mark 'No error' as your answer.

He has been presented off honorary awards.

(a) No error
(b) presented off
(c) He has been
(d) honorable awards

Answer: (b)

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

Invigorate

(a) Deform
(b) Energise
(c) Tire
(d) Grow

Answer: (c)

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

Both songs have been reworked giving them fresh impetus.

(a) detachment
(b) aversion
(c) disfavour
(d) incitement

Answer: (d)

5. Select the correctly spelt word.

(a) Waryness
(b) Monumental
(c) Disenchentment
(d) Awakning

Answer: (b)

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

The weather was so _____ that she couldn't step out of the house.

(a) serious
(b) inept
(c) terrible
(d) slight

Answer: (c)

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

This is on far a best ice cream I have ever had.

(a) by far the best
(b) at farthest a good
(c) by far more better
(d) No improvement required

Answer: (a)

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

Reveal

(a) Curb
(b) Veil
(c) Darken
(d) Disclose

Answer: (d)

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

Get cold feet

(a) To get no results
(b) To be in a bad mood
(c) To feel nervous about doing something
(d) To escape from something

Answer: (c)

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

Water is using in every cell of your body.

(a) is used in every
(b) No improvement required
(c) using in each
(d) are used in every

Answer: (a)

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

Gandhiji spent many years _____ Sabarmati Ashram.

(a) with
(b) by
(c) on
(d) at

Answer: (d)

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

After all the fuss, the companies has still not reach a consensus.

(a) have still not reached
(b) have still to reached
(c) had still not reach
(d) No improvement required

Answer: (a)

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

Food was _____; guides were not to be found, and the enemy dogged them all the way.

(a) scarce
(b) crass
(c) chance
(d) farce

Answer: (a)

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

Serene

(a) Unperturbed
(b) Pleased
(c) Composed
(d) Agitated

Answer: (d)

15. 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.

The Andes mountains / lay between / Chile and Argentina.

(a) Chile and Argentina
(b) lay between
(c) No error
(d) The Andes mountains

Answer: (b)

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

My life has _____ meaning without you.

(a) not
(b) never
(c) no
(d) none

Answer: (c)

17. 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.

There are some Indian herbs / that possesses a range / of important therapeutic properties.

(a) of important therapeutic properties
(b) that possesses a range
(c) No error
(d) There are some Indian herbs

Answer: (b)

18. Select the correctly spelt word.

(a) Exceptionale
(b) Deceive
(c) Mortle
(d) Appearence

Answer: (b)

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

To blaze the trail

(a) To oppose all criticism
(b) To cause the failure of
(c) To start a movement
(d) To mark the end of the movement

Answer: (c)

20. 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 prospects of surviving any serious illness are improved if the disease is catching early.

(a) being caught early
(b) caught early
(c) No substitution required
(d) catch earlier

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.
>
> Nuclear power for civil use is well (1) _____ in India. S[illegible]e building the two small boiling water reactors (2) _____ Tarapur in the 1960s, its civil nuclear strate[illegible] (3) _____ directed towards complete independence in the nuclear fuel cycle, necessarily [illegible] _____ it is excluded (5) _____ the 1970 Nuclear Non-Proliferation Treaty (NPT).

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

(a) implanted
(b) founded
(c) resurrected
(d) established

Answer: (d)

22. Select the most appropriate option to fill in blank number 2.

(a) at
(b) from
(c) on
(d) of

Answer: (a)

23. Select the most appropriate option to fill in blank number 3.
    (a) have
    (b) have been
    (c) has been
    (d) has
    Answer: (c)

24. Select the most appropriate option to fill in blank number 4.
    (a) though
    (b) that
    (c) because
    (d) thus
    Answer: (c)

25. Select the most appropriate option to fill in blank number 5.
    (a) at
    (b) within
    (c) from
    (d) of
    Answer: (c)

General Intelligence and Reasoning

1. 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. All G are R. II. Some F are G.

Conclusions: I. All R are F. II. Some G are F. III. Some F are R.
    (a) None of the conclusions follow
    (b) Only conclusion III follows
    (c) Only conclusions II and III follow
    (d) All the conclusions follow
    Answer: (c)

2. In a certain code language, 'ACID' is written as 'ZBHC' and 'LAND' is written as ‘KZMC’. How will 'GOLD' be written in that language?
    (a) FNKB
    (b) FNKC
    (c) FNJC
    (d) FMKC
    Answer: (b)

3. 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.

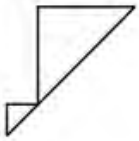
AND : VHV :: LXY : ?

(a) HRR
(b) HRQ
(c) GRQ
(d) GSQ

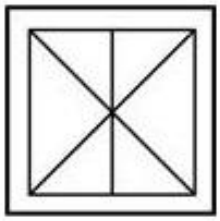
Answer: (c)

4.

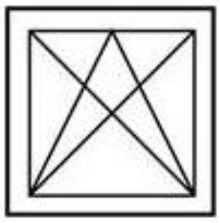
Select the option in which the given figure is embedded (rotation is NOT allowed).



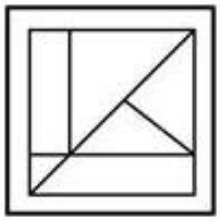
(a)



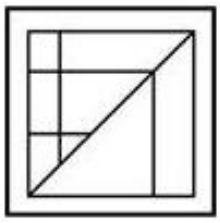
(b)



(c)



(d)



Answer: (c)

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

MA, NZ, OY, PX, ?

(a) QV

(b) QW

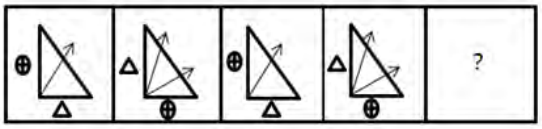
(c) WQ

(d) QR

Answer: (b)

6.

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



(a)



(b)



(c)



(d)



Answer: (b)

7. In a certain code language, 'Fakes are not great' is written as '8 6 3 2' and 'Tall people are great' is written as '5 3 2 7'. Which one of the following is the possible code for 'not' in that code language?

(a) 8
(b) 3
(c) 2
(d) 5

Answer: (a)

8. Which two signs need to be interchanged to make the following equation correct?

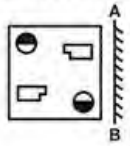
26 ÷ 24 + 6 × 27 − 105 = 29

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

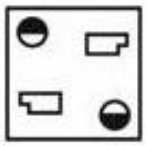
Answer: (b)

9.

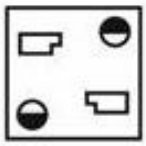
Select the correct mirror image of the given figure when the mirror is placed to its right side.



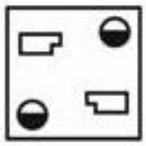
(a)



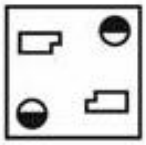
(b)



(c)



(d)



Answer: (b)

11. There are five friends, Ram, Shekhar, Sonu, Rinku and Monu, who are sitting at different positions in a row and facing north. Two friends sit between Shekhar and Rinku. Shekhar sits neither in the first position nor the last position of the row. Monu is not an immediate neighbour of Shekhar. Ram sits second to the left of Sonu. Sonu does not sit at the extreme ends of the row. Who is sitting at the middle of the row?

(a) Sonu
(b) Ram
(c) Shekhar
(d) Monu

Answer: (a)

12. Which two signs need to be interchanged to make the following equation correct?

2 + 78 ÷ 13 − 4 × 111 = 119

(a) + and ÷
(b) ÷ and ×
(c) + and −
(d) + and x

Answer: (d)

13. Seven birds — A, B, C, D, E, F and G are sitting in a straight row, facing north. D sits third to the right of F, who sits at the second position from the left end. E sits between A and F. G sits to the left of F. B sits in the second position from the right end. Which of the following statements is true?

(a) B sits exactly between D and A.
(b) C sits at extreme right end.
(c) F sits at extreme left end.
(d) E sits to the immediate left of D.

Answer: (b)

15. Select the option 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 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)

(7, 1, 3) (12, 2, 5)
(a) (30, 8, 11)
(b) (26, 4, 20)
(c) (32, 6, 18)
(d) (40, 10, 30)

Answer: (a)

17. In a certain code language, if Delhi is called Mumbai, Mumbai is called Jaipur, Jaipur is called Durgapur, Durgapur is called Chandigarh, and Chandigarh is called Jodhpur, then which city is the capital of Rajasthan?

(a) Durgapur

(b) Jaipur

(c) Chandigarh

(d) Mumbai

Answer: (a)

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

24, 625, 26, 729, 28, 841, ?

(a) 961

(b) 900

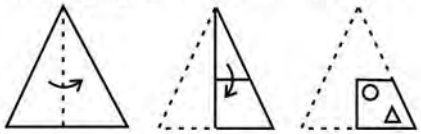
(c) 29

(d) 30

Answer: (d)

19.

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?



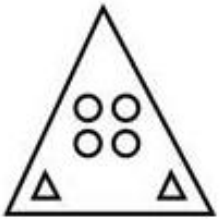
(a)



(b)



(c)



(d)



Answer: (c)

20. 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.

59 : 14 :: 61 : 7 :: 37 : ?

(a) 12

(b) 6

(c) 8

(d) 10

Answer: (d)

21.

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



(a)



(b)



(c)



(d)



Answer: (c)

22. 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.

LAM : AML :: RUK : ?

(a) KRU

(b) URK

(c) UKR

(d) KUR

Answer: (c)

23. In certain code language, 'DID' is coded as '494', 'DEAR' is coded as '4518' and 'BENT' is coded as '2540'. How will 'FOR' be coded in that language?

(a) 668

(b) 557

(c) 567

(d) 658

Answer: (d)

24. 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 basketball players are tall people. Suman is tall.

Conclusions:
I. Suman is a basketball player.
II. Some tall people are basketball players.

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

Answer: (d)

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

18, 36, 25, 50, 39, ?

(a) 72
(b) 76
(c) 74
(d) 78

Answer: (d)

Numerical Aptitude

1.

Trains A and B are running in the same direction at 40 km/h and 60 km/h, respectively. If both the trains started at the same time from the same place, then what will be the distance between them after 1 hour?

(a)
10 km
(b)
20 km
(c)
40 km
(d)
0 km

Answer: (b)

2.

The volume of a right circular cone is 3080 cm^3. If the radius of its base is 7 cm, then what is the height of the cone?

[Use $\pi = \frac{22}{7}$]

(a)

60 cm

(b)

80 cm

(c)

120 cm

(d)

90 cm

Answer: (a)

4.

How many multiples of 7 are there between 100 and 200?

(a)

14

(b)

15

(c)

12

(d)

16

Answer: (a)

5.

$\frac{2}{7}$ of 40% of B = 48. What is the value of B?

(a)

400

(b)

380

(c)

360

(d)

420

Answer: (d)

7.

Pipe A can fill an empty tank in 30 hours and B can fill it in 10 hours. Due to a leakage in the tank, it takes pipes A and B together 1.5 hours more to fill it completely that it would have otherwise taken. What is the time taken by the leakage alone to empty the same tank completely, starting when the tank is completely full?

(a)

42 hours

(b)

40 hours

(c)

36 hours

(d)

45 hours

Answer: (d)

8.

A man travelled a distance of 150 km in 18 hours. He travelled partly on foot at 5 km/h and partly on bicycle at 10 km/h. What is the distance travelled on bicycle?

(a)

120 km

(b)

30 km

(c)

100 km

(d)

70 km

Answer: (a)

9.

The following table shows the number of cars manufactured in five consecutive weeks.

Week	Number of cars manufactured
1st week	500
2nd week	700
3rd week	600
4th week	300
5th week	900

How many cars were manufactured in the first four weeks, taken together?

(a)

2000

(b)

2800

(c)

2100

(d)

2200

Answer: (c)

10.

What will be the ratio of the simple interest on ₹1,000 for 2 yea[illegible] annum to the simple interest on the same sum for the same period at 10% per annum?

(a)

2 : 1

(b)

3 : 1

(c)

1 : 2

(d)

1 : 3

Answer: (c)

12.

A can complete 25% of a work in 10 days. B can complete 40% of the same work in 16 days. In how many days will A and B together complete twice the work mentioned above?

(a)
20

(b)
40

(c)
60

(d)
50

Answer: (b)

14.

The average daily expenditure of Mohan over 4 days is ₹120. If his expenditure on the first 3 days are ₹60, ₹150 and ₹140, respectively, then what is his expenditure on the 4th day?

(a)
₹145

(b)
₹110

(c)
₹130

(d)
₹120

Answer: (c)

15.

The average of seven consecutive even numbers is 12. If the next even number is also considered, then what will be the new average?

(a)
16

(b)
13

(c)
14

(d)
15

Answer: (b)

16.

How many solid spheres of radius 3 cm can be formed by melting a bigger solid sphere of radius 24 cm?

(a)

512

(b)

128

(c)

64

(d)

256

Answer: (a)

17.

₹21,000 is to be distributed between Raj and Karan such that Raj gets ₹9,000 less than Karan. What is the ratio of the amount received by Raj to that received by Karan?

(a)

2 : 5

(b)

3 : 5

(c)

5 : 3

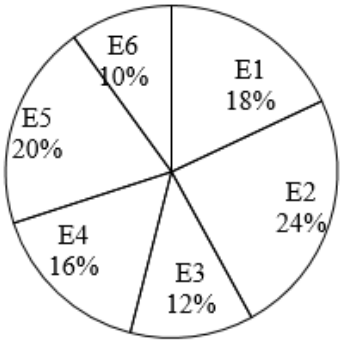
(d)

5 : 2

Answer: (a)

20.

The following pie chart shows the number of leaves taken during a year by each of 6 different employees as percentages of the total number of leaves taken by these 6 employees, added together.



If the difference between the numbers of leaves taken by E2 and E5 is 14, then what is the total number of leaves taken during the year by all the 6 employees, added together?

(a)
380

(b)
350

(c)
320

(d)
360

Answer: (b)

21.

The mean height of 30 students was given as 140 cm. It was later observed that one of the observations was incorrectly copied as 121 cm while it was actually 134 cm. What was the correct mean height? [Give your answer correct to one place of decimal.]

(a)
150.4 cm

(b)
140.4 cm

(c)
160.4 cm

(d)
130.4 cm

Answer: (b)

23.

The interest accrued on a sum of ₹12,000 in two years, when interest is compounded annually, is ₹3,870. What is the rate of interest per annum?

(a)

12.5%

(b)

10%

(c)

20%

(d)

15%

Answer: (d)

24.

The perimeter of an equilateral triangle is 40 cm more than the length of each of its sides. What is the length of each side of this equilateral triangle?

(a)

10 cm

(b)

30 cm

(c)

15 cm

(d)

20 cm

Answer: (d)

25.

What is the value of $\frac{1}{7}\times\frac{1}{8}\div\frac{1}{4}+\frac{1}{3}\times\frac{1}{9}+\frac{1}{6}\div\frac{1}{12}$ of $\frac{3}{7}$?

(a)
$\frac{1908}{378}$

(b)
$\frac{1802}{405}$

(c)
$\frac{1805}{378}$

(d)
$\frac{1855}{378}$

Answer: (c)

General Awareness

2. Vikas has an income of ₹2.5 lakhs. Which of the f wing tax slabs of India is applicable for him?

(a) 0.2
(b) 0.1
(c) 0.05
(d) Nil

Answer: (d)

3. Which of the following countries shares their land boundary with India?

(a) Bhutan
(b) Indonesia
(c) Vietnam
(d) Uzbekistan

Answer: (a)

7. Who among the following athletes won India's first gold medal in Javelin Throw at the Tokyo Olympics 2020?

(a) Leander Paes
(b) Deepika Kumari
(c) Mary Kom
(d) Neeraj Chopra

Answer: (d)

8. The maximum temperature of the day occurs generally:
   (a) in the afternoon
   (b) in the early morning
   (c) at midnight
   (d) in the evening
   Answer: (a)

9. Which of the following statements about Paramhansa Mandalis is INCORRECT?
   (a) They were primarily interested in breaking caste rules.
   (b) Its founders did not believe in God.
   (c) It was founded in 1849 in Maharashtra.
   (d) They also advocated for widow remarriage and women's education.
   Answer: (b)

10. The heart of a fish has _____ chambers.
   (a) three
   (b) five
   (c) four
   (d) two
   Answer: (d)

11. Pramod Sawant took the oath as the Chief Minister of which state in March 2022?
   (a) Maharashtra
   (b) Goa
   (c) Gujarat
   (d) Karnataka
   Answer: (b)

13. Select the correct statement.
   (a) There are only 2 basic components of a cell-cytoplasm and nucleus.
   (b) The cytoplasm and nucleus are enclosed within the cell membrane, also called the plasma membrane.
   (c) The membrane separates ribosomes and mitochondria of a cell.
   (d) The plasma membrane does not allow inward movement of the substance.
   Answer: (b)

14. In India, primitive form of cultivation is known as 'Jhumming' in the _____.
   (a) Western Ghats
   (b) south-eastern region
   (c) Himalayan belt
   (d) north-eastern region
   Answer: (d)

15. Which country is separated from India by the Gulf of Mannar?

(a) Bangladesh
(b) Sri Lanka
(c) Indonesia
(d) China

Answer: (b)

16. Which of the following laws states that with the temperature remaining constant, the volume of a given mass of a gas varies inversely with the pressure of the gas?

(a) Graham's Law
(b) Kepler's Law
(c) Charles's Law
(d) Boyle's Law

Answer: (d)

18. Makar Sankranti is celebrated as the _____ long Pongal festival in Tamil Nadu and Andhra Pradesh.

(a) seven-day
(b) two-day
(c) five-day
(d) four-day

Answer: (d)

19. Which country hosted the ICC Women's World C 2021/22?

(a) New Zealand
(b) Australia
(c) South Africa
(d) England

Answer: (a)

20. In 1929, Indian National Congress demanded complete independence under the presidentship of _____.

(a) Dadabhai Naoroji
(b) Jawaharlal Nehru
(c) Mahatma Gandhi
(d) Chitta Ranjan Das

Answer: (b)

22. Every judge of the Supreme Court in India shall hold office until he attains the age of _____ years.

(a) 55
(b) 65
(c) 58
(d) 62

Answer: (b)

23. Which of the following novels was written by the famous Indian novelist Amrita Pritam?
    (a) Midnight's Children
    (b) Satya ke Prayog
    (c) Raseedi Ticket
    (d) Train to Pakistan

    Answer: (c)

24. In the Indian constitution, the Right to Freedom is covered from _____.
    (a) Article 19 to 22
    (b) Article 26 to 30
    (c) Article 14 to 18
    (d) Article 23 to 25

    Answer: (a)

25. The Janjira Fort is situated on a small island in the Arabian sea, off the coast of _____.
    (a) Gujarat
    (b) Maharashtra
    (c) Kerala
    (d) Karnataka

    Answer: (b)

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	**(d)**	2	**(b)**	3	**(c)**	4	**(d)**	5	**(b)**	6	**(c)**	7	**(a)**	8	**(d)**
9	**(c)**	10	**(a)**	11	**(d)**	12	**(a)**	13	**(a)**	14	**(d)**	15	**(b)**	16	**(c)**
17	**(b)**	18	**(b)**	19	**(c)**	20	**(b)**	21	**(d)**	22	**(a)**	23	**(c)**	24	**(c)**
25	**(c)**														

General Intelligence and Reasoning

1	**(c)**	2	**(b)**	3	**(c)**	4	**(c)**	5	**(b)**	6	**(b)**	7	**(a)**	8	**(b)**
9	**(b)**	11	**(a)**	12	**(d)**	13	**(b)**	15	**(a)**	17	**(a)**	18	**(d)**	19	**(c)**
20	**(d)**	21	**(c)**	22	**(c)**	23	**(d)**	24	**(d)**	25	**(d)**				

Numerical Aptitude

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

General Awareness

2	**(d)**	3	**(a)**	7	**(d)**	8	**(a)**	9	**(b)**	10	**(d)**	11	**(b)**	13	**(b)**
14	**(d)**	15	**(b)**	16	**(d)**	18	**(d)**	[illegible]	**(a)**	20	**(b)**	22	**(b)**	23	**(c)**
24	**(a)**	25	**(b)**												