PREVIOUS YEAR PAPER

SSC MTS 2024 — 11 November 2024, Shift 3

SSC MTS & Havaldar · 11 November 2024 · 4:00 PM - 5:30 PM

74 of the paper's 90 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 11 November 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-2024-11-nov-shift-3/

Numerical and Mathematical Ability

1. A sum was deposited at a certain rate of simple interest for 4 years. If it had been a 5% higher rate of interest, then it would have amounted to ₹5,200 more. The sum deposited is:

(a) ₹25,000
(b) ₹13,000
(c) ₹10,400
(d) ₹26,000

Answer: (d)

2. Find the simple interest (in ₹) on ₹2000 as a sum borrowed at 8% per year rate of interest for 5 years.

(a) 740
(b) 840
(c) 800
(d) 760

Answer: (c)

3. Amar buys a wall clock for ₹300 and sells it for ₹200. Find his percentage loss.

(a) 32.33% gain
(b) 31.33% gain
(c) 30.33% loss
(d) 33.33% loss

Answer: (d)

7. In an examination, the average marks of the student in class were 85.4. If the student had got 8 more marks in History, 12 more marks in Science, 10 more marks in Computer Science, 15 less marks in Hindi and retained the same marks in other subjects, then the average would have been 87.9. How many subjects were there in the examination?

(a) 7
(b) 8
(c) 5
(d) 6

Answer: (d)

8. The greatest number which exactly divides the numbers 38, 95 and 171 is:

(a) 9

(b) 13

(c) 21

(d) 19

Answer: (d)

10. There are five baskets- A, B, C, D and E. Each basket has rings in it and the average number of rings in all five baskets is 42. If basket D is removed, the average number of rings in the remaining baskets is 38. How many rings are there in basket D?

(a) 38

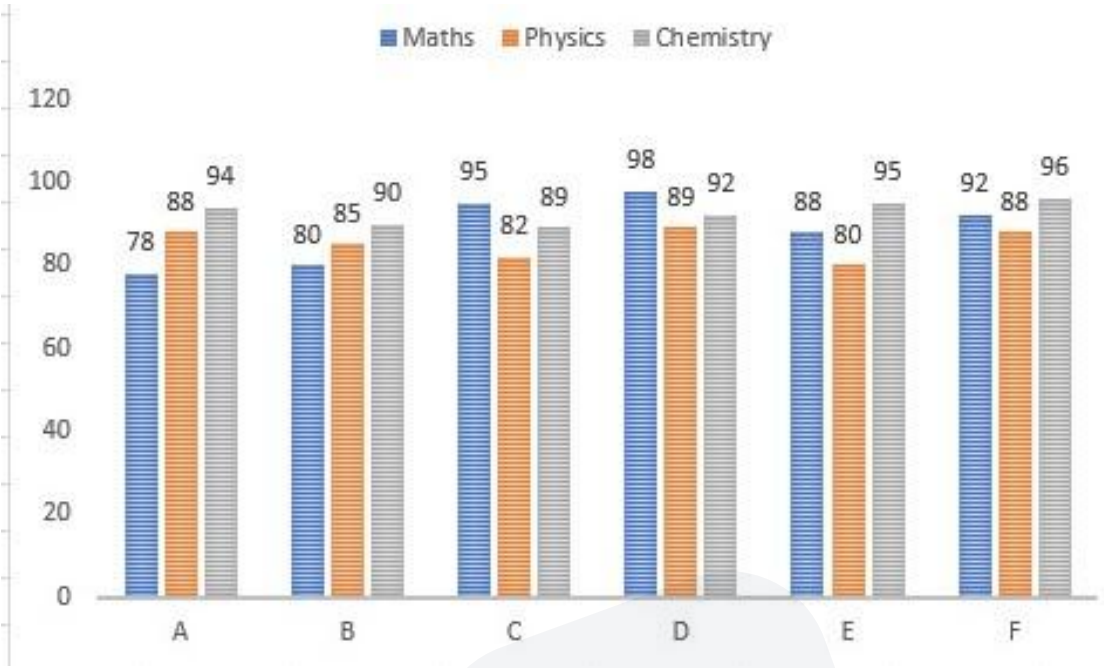
(b) 64

(c) 58

(d) 42

Answer: (c)

11. Study the given bar graph and answer the question that follows. The bar-graph given below shows the average marks scored by six students (A, B, C, D, E and F) in Mathematics, Physics and Chemistry. The maximum marks of each subject is 100.



.

Find the difference between the total marks scored by A in Mathematics, Physics and Chemistry to the total marks scored by F in Mathematics, Physics and Chemistry.

(a) 24
(b) 12
(c) 21
(d) 42

Q.12

1. 10 cm

2. 6 cm

Answer: (c)

13. A solid sphere of radius 9 cm is melted to form a hollow, right circular cylindrical tube of length 12 cm and external radius 15 cm. The thickness (in cm) of the tube is:

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

Answer: (d)

14. The sum of three consecutive odd numbers is 58 more than the average of these numbers. Find the largest number.

(a) 31
(b) 27
(c) 37
(d) 33

Answer: (a)

15. The average marks of 60 students was found to be 48. Later on, it was discovered that a score of 68 was misread as 56. Find the correct average corresponding to the correct score.

(a) 40.8
(b) 54.2
(c) 48.2
(d) 44.2

Answer: (c)

18. Two trains start at the same time from two stations and travel towards each other with speeds of 72 km/h and 84 km/h, respectively. When they cross each other, it is found that one train has covered 108 km more than the other. What is the distance (in km) between the two stations, and after how many hours will they meet, respectively?

(a) 1084; 7
(b) 1244; 8
(c) 1404; 9
(d) 1440; 10

Answer: (c)

19. The ratio between the monthly incomes of P and Q is 7 : 6 and the ratio between their expenditures is 6 : 5. If they save ₹480 each, then find P's monthly income.

(a) ₹6,240
(b) ₹2,880
(c) ₹3,360
(d) ₹2,400

Answer: (c)

20. The salary of a person was reduced by 20%. By what percentage should his reduced salary be raised so as to bring it at par with his original salary?

(a) 22%
(b) 25%
(c) 30%
(d) 20%

Answer: (b)

Reasoning Ability and Problem Solving

1. OM 13 is related to RP 17 in a certain way. In the same way, WU 19 is related to ZX 23. To which of the following is IG 14 related, following the same logic?

(a) LJ 18
(b) KJ 18
(c) KJ 17
(d) LJ 17

Answer: (a)

2. In a certain code language, 'KNOW' is coded as '2846' and 'WIDE' is coded as '5729'.What is the code for 'W' in the given code language?

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

Answer: (d)

3. What will come in place of the question mark (?) in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?

234 × 6 − 6 ÷ 66 + 60 = ?

(a) 329
(b) 375
(c) 322
(d) 365

Answer: (b)

4. 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 babies are humans. All babies are animals.

Conclusions:
(I) At least some animals are humans.
(II) All animals are babies.

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

Answer: (b)

5. AI10 is related to YG12 in a certain way. In the same way, BJ20 is related to ZH22. To which of the following is CK30 related, following the same logic?

(a) BC22
(b) AB32
(c) BI22
(d) AI32

Answer: (d)

6. 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: All belts are wallets. Some wallets are glasses.

Conclusions:
(I) Some belts are glasses.
(II) Some glasses are not wallets.

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

Answer: (c)

7. In a code language, 'MBXL' is coded as ‘OXZH’ an KRG' is coded as ‘HGTC’. How will 'LUGS' be coded in that language?

(a) NPIN
(b) OPJN
(c) OQJP
(d) NQIO

Answer: (d)

9. 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 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.)

12, 108 20, 180

(a) 14, 125
(b) 30, 290
(c) 18, 156
(d) 25, 225

Answer: (d)

10. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

FOM, ILJ, LIG, OFD, ?

(a) SCB
(b) SCA
(c) RCA
(d) RCB

Answer: (c)

11. In a certain code language, 'BEND' is written as 'ADMC' and 'FISH' is written as 'EHRG'. How will 'EVIL' be written in that language?

(a) DWHK
(b) DUJM
(c) FWJM
(d) DUHK

Answer: (d)

13. E, F, G, H, I, J and K are sitting around a circular table facing the centre (but not necessarily in the same order). I sits third to the left of J. E is an immediate neighbour of both G and H. G sits third to the right of J. F sits second to the right of I. What is the position of K with respect to H?

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

Answer: (c)

15. In a certain code language, 'FITS' is coded as 'ULID' and 'GIFT' is coded as 'IUZD'. What is the code for 'G' in the given code language?

(a) D
(b) I
(c) Z
(d) U

Answer: (c)

16. Select the number from among the given options that can replace the question mark (?) in the following series. 86, 91, 101, 116, ?

(a) 126
(b) 159
(c) 136
(d) 134

Answer: (c)

17. A, B, L, N, S, T and Z are seven candidates sitting around a circular table, facing the centre (but not necessarily in the same order), for a group discussion. L is sitting third to the left of N. N is sitting exactly between T and B. Z is an immediate neighbour of B and is sitting third to the left of S. Z is also an immediate neighbour of A. Who is sitting second to the left of N?

(a) Z

(b) L

(c) A

(d) S

Answer: (d)

18. 6 is related to 77 following a certain logic. Following the same logic, 9 is related to 116. To which of the following is 11 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) 141

(b) 132

(c) 142

(d) 143

Answer: (c)

General Awareness

2. Which of the following statements is/are correct t[illegible]ples of Khajuraho?
a) Equal importance is given to human experience [illegible] spiritual pursuit.
b) Jain and Hindu temples are also found a[illegible]o.
c) Chausanth Yogini temple is one of the impo[illegible]emples here.

(a) All a, b and c

(b) Only c and a

(c) Only b and c

(d) Only a and b

Answer: (a)

3. The Indian Ministry of Environment, Forest and Climate Change maintains a log of all the endangered species of India along with their conservation status. What is the name of this book?

(a) The Book of Endangered Species

(b) The Black Book

(c) Indian Life Catalogue

(d) Red Data Book

Answer: (d)

4. The famous folk dance 'Dholacha Nach' is performed in which state?

(a) Maharashtra
(b) Rajasthan
(c) Madhya Pradesh
(d) Bihar

Answer: (a)

5. Which of the following festivals is celebrated in the month of Chaitra?

(a) Diwali
(b) Janmashtami
(c) Ramnavami
(d) Dussehra

Answer: (c)

6. On 11 th December 2022, who among the following took over as the Deputy Chief Minister of Himachal Pradesh?

(a) Mukesh Agnihotri
(b) Shiv Pratap Shukla
(c) Vikramaditya Singh
(d) Jairam Thakur

Answer: (a)

7. Which of the following is an example of a physical change? In this example, there is no change in chemical composition of matter. A: Coal changing into coal ash on burning B: Preparing a sweet drink by mixing sugar in water C: White washing walls using a solution of lime and water D: Mixing salt and lemon juice in a beaker

(a) Only C
(b) Only B
(c) Only D
(d) Only A

Answer: (b)

8. Who was the Prime Minister when the 11th Fundamental Duty was incorporated into the Indian Constitution?

(a) Indira Gandhi
(b) Gulzari Lal Nanda
(c) Atal Bihari Vajpayee
(d) Lal Bahadur Shastri

Answer: (c)

9. Which of the following is/are an example of a non-tax revenue receipt?

(a) External commercial borrowings
(b) Income tax
(c) Interest income
(d) Disinvestment

Answer: (c)

10. The village servants or functionaries, who constituted of groups of families in Vijayanagar empire, were called _____.

(a) ayagars
(b) vellalars
(c) amaranayakas
(d) nayakas

Answer: (a)

11. The position of the President in the Indian Political system is that of a _____.

(a) Nominal Executive
(b) Real Executive
(c) Dictator
(d) King

Answer: (a)

12. In which season of the Ultimate Kho-Kho League ırnament was Ramji Kashyap awarded the Player of the tournament?

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

Answer: (a)

13. Where is the headquarters of the West Central Railway Zone?

(a) Jabalpur
(b) Maligaon
(c) Hubli
(d) Bilaspur

Answer: (a)

14. Which of the following national leaders of India inaugurated the first Akhil Bhartiya Kalidas Samman Samaroh held in Ujjain in 1958?

(a) Jawaharlal Nehru
(b) Sardar Patel
(c) Lal Bahadur Shastri
(d) Rajendra Prasad

Answer: (d)

15. In rat-hole mining, which of the following minerals is mined?

(a) Gold
(b) Nickel
(c) Coal
(d) Bauxite

Answer: (c)

16. What approach did Dadabhai Naoroji use to calculate the Poverty Line?

(a) Industrial output
(b) Prisoner menu
(c) Agricultural productivity
(d) Export-import data

Answer: (b)

17. Literal meaning of 'megalith' is _____.

(a) a huge shelter
(b) a cave
(c) a mortuary
(d) a big stone

Answer: (d)

18. Gluten formation is observed in various foods like ɜta, noodles, pizzas, and bread. Gluten occurs when two specific proteins are mixed with w . Name the two proteins responsible for gluten formation.

(a) Glutenin and Glycine
(b) Glutenin and Gliadin
(c) Glutenin and Casein
(d) Glutenin and Albumin

Answer: (b)

19. At which of the following places was the first Singh Sabha founded in 1873?

(a) Lahore
(b) Jullundur
(c) Amritsar
(d) Multan

Answer: (c)

20. The National Apprenticeship Promotion Scheme (NAPS) was launched by the Government of India in the year _____.

(a) 2022
(b) 2005
(c) 2012
(d) 2016

Answer: (d)

21. Which of the following Hindi novels is written by Vishnu Prabhakar?
    (a) Vinayak
    (b) Kyapa
    (c) Ardhnarishwar
    (d) Mujhe Chand Chahiye
    Answer: (c)

22. Which state lies in the rain shadow region of the Arabian Sea branch of the southwest monsoon?
    (a) Gujarat
    (b) Tamil Nadu
    (c) Kerala
    (d) Goa
    Answer: (b)

23. The Fourth Anglo-Mysore War was fought in the year _____.
    (a) 1799
    (b) 1800
    (c) 1796
    (d) 1797
    Answer: (a)

24. In 2023, the philanthropic organisation Carnegie C poration of New York placed Ajay Banga, the President of _____, on its annual 'Great Immigrar list. This list consists of honourees who have enriched and strengthened America and its de cracy through their contributions and actions.
    (a) World Bank
    (b) Asian Development Bank
    (c) European Union
    (d) African Union
    Answer: (a)

25. For which song did Tanvi Shah become the first Indian woman to win a Grammy Award in 2010?
    (a) Jai Ho
    (b) Bharat Ki Beti
    (c) Ae Watan
    (d) Vande Mataram
    Answer: (a)

English Language and Comprehension

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

Collapse

(a) Fall
(b) Surprise
(c) Jump
(d) Side

Answer: (a)

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

If I wrote an email / to my boss now, / he will react / by yelling at me tomorrow in the morning.

(a) he will react
(b) to my boss now,
(c) by yelling at me tomorrow in the morning.
(d) If I wrote an email

Answer: (d)

3. 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.

If the players don't wear sunscreen, / their faces wil' ,et reddest.

(a) get reddest
(b) their faces will
(c) If the players don't wear sunscreen,
(d) No error

Answer: (a)

4. Select the most appropriate option that can substitute the underlined words in the given sentence.

I have <u>never had</u> and never will be dependent on him.

(a) never been
(b) was never being
(c) never has
(d) has never been

Answer: (a)

5. Select the most appropriate synonym of the underlined word. I did not like his <u>bossy</u> attitude.

(a) benevolent
(b) idiosyncratic
(c) controlling
(d) sensible

Answer: (c)

6. Select the INCORRECTLY spelt word from the given sentence.

The kitten's playful behaivor brought joy to the entire family.

(a) Joy
(b) Kitten's
(c) Playful
(d) Behaivor

Answer: (d)

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

compassionate

(a) hardworking
(b) disciplined
(c) confident
(d) cruel

Answer: (d)

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

The company's decision to relocate had a negative _____ on its employees.

(a) conclusion
(b) effect
(c) establish
(d) accommodation

Answer: (b)

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

Always keep in mind leaner bodies need more calories than fattest ones.

(a) fatter
(b) more fatter
(c) fat
(d) the fattest

Answer: (a)

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

Brave

(a) Dim
(b) Boundless
(c) Cowardly
(d) Earthly

Answer: (c)

12. Select the most appropriate idiom that can substitute the underlined segment in the given sentence.

We often go camping, but I have never been to that particular part of town or country before.

(a) neck of the woods
(b) get it in the neck
(c) knock on wood
(d) risk one's neck

Answer: (a)

14. Select the option that can be used as a one-word substitute for the underlined word. The old library had a musty smell from years of neglect.

(a) foggy
(b) fresh
(c) stale
(d) casual

Answer: (c)

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

Rahul was angry of his brother as he broke his pen.

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

Answer: (a)

16. Select the sentence that has a grammatical error.

(a) She is an artist at a local gallery.
(b) The cat is sleeping on a mat.
(c) They have an information about the event.
(d) Can you bring me the keys to the car?

Answer: (c)

17. Select the most appropriate option to fill in the blank. When we _____ ourselves, we activate a variety of psychological processes that help us achieve our objectives and improve our overall well-being.

(a) doubt
(b) believe in
(c) demolish
(d) linger

Answer: (b)

18. Select the correct spelling from the given options to fill in the blank. We _____ to keep you informed of any delay to your expected delivery date.

(a) endevor
(b) endeavour
(c) endevour
(d) endavour

Answer: (b)

20. Select the option that rectifies the INCORRECT spelling in the given sentence. If you try to conwince people that money is not very important, then you are barking up the wrong tree.

(a) convince
(b) convincee
(c) canvince
(d) conveence

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 the contemporary times, sports and games are emerging as one of the brightest careers. It expects to ___1___ at a very high moral plane. It demands honesty and transparency. Sports further demand continuous practice, hard work and ___2___ training. One must understand that sport not only has physical benefits but also ___3___ concentration and inner strength. Not only this, one who plays feels that ____4___ overall personality has undergone a change for better. Besides, social connectivity or networking, games develop ___5___ spirit in players

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

(a) operate
(b) dwell
(c) desynchronise
(d) decide

Answer: (a)

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

(a) abated
(b) paltry
(c) relentless
(d) faltering

Answer: (c)

23. Select the most appropriate option to fill in blank number 3.

(a) underlines
(b) deteriorates
(c) controls
(d) boosts

Answer: (d)

24. Select the most appropriate op on to fill in blank number 4.
    (a) his
    (b) it's
    (c) one's
    (d) their

    Answer: (c)

25. Select the most appropriate op on to fill in blank number 5.
    (a) sportsmanship
    (b) captaincy
    (c) companionship
    (d) leadership

    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	**(d)**	7	**(d)**	8	**(d)**	10	**(c)**
11	**(c)**	13	**(d)**	14	**(a)**	15	**(c)**	18	**(c)**	19	**(c)**
20	**(b)**										

Reasoning Ability and Problem Solving

1	**(a)**	2	**(d)**	3	**(b)**	4	**(b)**	5	**(d)**	6	**(c)**
7	**(d)**	9	**(d)**	10	**(c)**	11	**(d)**	13	**(c)**	15	**(c)**
16	**(c)**	17	**(d)**	18	**(c)**						

General Awareness

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

English Language and Comprehension

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