PREVIOUS YEAR PAPER

SSC MTS 2024 — 13 November 2024, Shift 3

SSC MTS & Havaldar · 13 November 2024 · 4:00 PM - 5:30 PM

71 of the paper's 90 questions · marks per question not printed on the response sheet

Left out of the original paper: 19 (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, 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-2024-13-nov-shift-3/

Numerical and Mathematical Ability

1. The height of Aaryan was 120 cm. After 1 year,his height increased by 15%, and in the next 1 year, his height increased by 16%. What will be the height (in cm) of Aaryan after the second years?

(a) 161.08
(b) 150.56
(c) 138
(d) 160.08

Answer: (d)

3. The product of LCM and HCF of two numbers is 24. If the difference between the two numbers is 2, then find the numbers.

(a) 2 and 4
(b) 6 and 4
(c) 5 and 3
(d) 8 and 6

Answer: (b)

4. A person can complete a journey in 21 hours. He covers the first one-third of the journey at the speed of 40 km/h and the remaining distance at the speed of 60 km/h. What is the total distance of his journey?

(a) 1080 km
(b) 360 km
(c) 1140 km
(d) 720 km

Answer: (a)

6. What sum (in ₹) will earn a simple interest of ₹360 in 2 years at 20% per year rate of interest?

(a) 1200
(b) 450
(c) 1800
(d) 900

Answer: (d)

8. A man covers 30 km by car at a speed of 60 km/h and another 20 km by cycle. His whole journey is completed in 3 hours. What is the speed (in km/h) of the cycle?

(a) 10
(b) 8
(c) 6
(d) 12

Answer: (b)

10. Ramesh bought a watch for Rs.460 and sold it for Rs.414. Find his percentage of loss

(a) 10%
(b) 11%
(c) 5%
(d) 20%

Answer: (a)

11. The difference between simple interests on a certain sum at the annual rate of 6% for 6 years and 8% for 8 years is ₹1,176. What is the sum?

(a) ₹4,200
(b) ₹4,400
(c) ₹3,800
(d) ₹4,000

Answer: (a)

12. The average weight of a family of five members kg) whose weights are 40 kg, 49 kg, 56 kg, 68 kg and 37 kg is:

(a) 52
(b) 50
(c) 49
(d) 51

Answer: (b)

13. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 69 kg and 39 kg is:

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

Answer: (c)

14. In a group of sports persons, 20 wrestlers have an average weight of 90 kg, while some athletes have an average weight of 68 kg. If the average weight of all sports persons is 78 kg, then the number of athletes is:

(a) 30
(b) 52
(c) 39
(d) 24

Answer: (d)

15. By selling a book for ₹480 at marked price, a shopkeeper gains 20%. During a clearance sale, the shopkeeper allows a discount of 10% on the marked price. What is his gain per cent during the sale?

(a) 12%
(b) 16%
(c) 18%
(d) 8%

Answer: (d)

16. What sum (in ₹) will earn a simple interest of ₹240 in 3 years at 20% per year rate of interest?

(a) 600
(b) 400
(c) 200
(d) 800

Answer: (b)

17.

The diameter of the base of a right circular cylinder is 98 cm and its height is 42 cm. Find the total surface area of the cylinder. (Take $\pi = \frac{22}{7}$)

(a) 28028 cm2
(b) 20882 cm2
(c) 20828 cm2
(d) 28082 cm2

Answer: (a)

18. The average score of boys in an examination in a school is 71 and that of the girls is 73. The average score of the school is 71.8. The ratio of the number of boys to that of the girls that appeared in the examination is:

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

Answer: (d)

20. If 49 : x :: x : 81 and 64 : y :: y : 169, where x and y are both natural numbers, then find the value of 2x + 3y.

(a) 312
(b) 348
(c) 126
(d) 438

Answer: (d)

Reasoning Ability and Problem Solving

1. 2 is related to 15 following a certain logic. Following the same logic, 6 is related to 43. To which of the following is 9 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) 68
(b) 64
(c) 58
(d) 53

Answer: (b)

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

36, 39, 44, 51, 60, 71, 84, ?

(a) 99
(b) 90
(c) 97
(d) 95

Answer: (a)

3. In a certain code language, 'black dark night' is coded as 'ck th lp' and 'dark cloudy sky' is coded as 'eg lp sc'. How is 'dark' coded in the given language?

(a) eg
(b) th
(c) lp
(d) sc

Answer: (c)

4. What will come in the place of '?' in the following equation, if '–' and '÷' are interchanged and '×' and '+' are interchanged? 70 ÷ 90 – 10 + 20 × 80 = ?

(a) –10

(b) –40

(c) –45

(d) –30

Answer: (d)

5. GNEE is related to JQHH in a certain way based on the English alphabetical order. In the same way, BHYY is related to EKBB. To which of the following is QXOO related, following the same logic?

(a) RRTA

(b) TARR

(c) RRAT

(d) ATRR

Answer: (b)

7. What will come in place of the question mark (?) in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged? 81 × 3 - 9 ÷ 3 + 2 = ?

(a) 3

(b) 56

(c) 2

(d) 52

Answer: (d)

8. A, E, I, O, U, S and K are sitting around a circular table facing the centre (but not necessarily in the same order). K is to the immediate right of O. E is the immediate neighbour of both O and S. I is neither an immediate neighbour of S nor A. Who sits to the immediate right of U?

(a) K

(b) S

(c) I

(d) A

Answer: (d)

9. 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: Some doors are rocks. All rocks are woods.

Conclusions:
(I) At least some woods are doors.
(II) All woods are rocks.

(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: (b)

10. In a certain code language, 'WEAR' is coded as 'PI1O' and 'EARS' is coded as 'I4OP'. What is the code for 'S' in the given code language?

(a) O
(b) 4
(c) P
(d) I

Answer: (b)

11. In a certain code language,'shirt pant coat' is cod as 'ek ph bq','coat jacket sweater' is coded as 'ek lh to','jacket shirt watch' is coded as 'fd bq lh hat is the code for'coat' in that language?
(Note: All the codes are two-letter coded c

(a) lh
(b) bq
(c) to
(d) ek

Answer: (d)

13. 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). D is sitting second to the left of F. A is sitting third to the right of B. C is sitting to the immediate right of D. Only two people are sitting between F and G. How many people are sitting between C and G when counted from the left of G?

(a) Three
(b) Two
(c) Four
(d) One

Answer: (a)

14. In a certain code language, ‘JUMP’ is coded as ‘4682’ and ‘MIND’ is coded as ‘3741’.What is the code for ‘M’ in the given code language?

(a) 8
(b) 7
(c) 3
(d) 4

Answer: (d)

15. CMGW is related to XHDT in a certain way based on the English alphabetical order. In the same way, SCAQ is related to NXXN. To which of the following is ISUK related, following the same logic?

(a) EORG
(b) ENSH
(c) CMRG
(d) DNRH

Answer: (d)

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

AGK, FLP, KQU, PVZ, ?

(a) UEA
(b) VGY
(c) UES
(d) UAE

Answer: (d)

20. 12 is related to 61 following a certain logic. Following the same logic, 15 is related to 76. To which of the following is 18 related, following the same logic?

(NOTE: Opera ons should be performed on the whole numbers, without breaking down the numbers into their cons tuent digits. E.g. 13 – Opera ons on 13 such as adding/subtrac ng/mul plying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathema cal opera ons on 1 and 3 is not allowed.)

(a) 97
(b) 91
(c) 95
(d) 93

Answer: (b)

General Awareness

1. When was the Jallianwala Bagh massacre brought into action by the Britishers in Amritsar?

(a) 23 April, 1918
(b) 13 April, 1918
(c) 13 March 1919
(d) 13 April, 1919

Answer: (d)

3. Which writ is issued by the High Court or Supreme Court when a lower court considers a case going beyond its jurisdiction?

(a) Mandamus
(b) Prohibition
(c) Habeas Corpus
(d) Quo warranto

Answer: (b)

4. An Indian Parliamentary delegation led by Minister of Parliamentary Affairs, Coal and Mines _____ visited Brazil from 11 to 13 June 2023.

(a) Pralhad Joshi
(b) Narayan Rane
(c) Arjun Munda
(d) Virendra Kumar

Answer: (a)

5. The planned large-scale disruption of rail commu ations and the seizure of arms in Bengal were undertaken under the leadership of _ _.

(a) Surendranath Banerjee
(b) Jatin Mukherjee
(c) Chittaranjan Das
(d) Aurobindo Ghose

Answer: (b)

6. As per Census 2011, which of the following states has the lowest child sex ratio?

(a) Haryana
(b) Punjab
(c) Madhya Pradesh
(d) Rajasthan

Answer: (a)

7. Which of the following Indian cities was the host of the ICC Men's World Cup final cricket match in 2023?

(a) Mumbai
(b) Ahmedabad
(c) New Delhi
(d) Chennai

Answer: (b)

8. The revival of the art form in the late 1940s was spearheaded by maestros such as Kelucharan Mohapatra and Raghunath Dutta in the field of _____.

(a) Sattriya
(b) Manipuri
(c) Odissi
(d) Chhau

Answer: (c)

9. What was the unemployment rate of Gujarat in November 2021?

(a) 3.4%
(b) 1.4%
(c) 4.4%
(d) 2.4%

Answer: (b)

10. A child is a picky eater. He does not consume milk at all and barely eats other kinds of food. When he started losing his baby teeth, they were not getting replaced with new teeth. This can be solved by giving him _____.

(a) vitamin B complex
(b) calcium supplements
(c) carbohydrate-rich food
(d) vitamin C

Answer: (b)

12. The Indus Water Treaty took place in _____ between India and Pakistan.

(a) 1965
(b) 1960
(c) 1970
(d) 1955

Answer: (b)

13. Anuradhapura, the old capital of Sri Lanka, was destroyed by which of the following dynasties of South India in the 10 th century AD?

(a) Chalukyas of Badami
(b) Chalukyas of Vengi
(c) Chola
(d) Rashtrakuta

Answer: (c)

14. Kala Ramnath belonged to which of the following gharanas?

(a) Agra gharana
(b) Mewati gharana
(c) Indore gharana
(d) Kirana gharana

Answer: (b)

15. The 9 th Asian Games was hosted by which of the following countries?

(a) South Korea
(b) China
(c) India
(d) Japan

Answer: (c)

16. In January 2023, the Chief Minister's Residential Land Rights Scheme (Mukhyamantri Awasiya Bhu Adhikar Yojana) was launched in which Indian state?

(a) Punjab
(b) Haryana
(c) Madhya Pradesh
(d) Uttar Pradesh

Answer: (c)

18. What is the atomic number of uranium (U)?

(a) 92
(b) 104
(c) 94
(d) 90

Answer: (a)

19. Every year, Karthik Purnima marks the end of a li[illegible]tock fair in Pushkar, where the main animal on display is:

(a) horse
(b) camel
(c) buffalo
(d) cow

Answer: (b)

20. The Citadel area has a huge mud _____ platform, which is 6 m high and underlies all the construction.

(a) stone
(b) rock
(c) wood
(d) brick

Answer: (d)

23. Kanaka Raju, who kept the tribal folk dance Gussadi alive, was honoured with which of the following civilian awards of India in 2021?

(a) Padma Vibhushan
(b) Bharat Ratna
(c) Padma Bhushan
(d) Padma Shri

Answer: (d)

24. Which of the following is included in the estimation of Gross National Product?

(a) Sale of securities

(b) Pension payments

(c) Sale of used cars

(d) Sale of new shirts

Answer: (d)

25. As per Article 157 of the Constitution of India, a person needs to complete the age of _____ years to be appointed as Governor.

(a) 41

(b) 45

(c) 35

(d) 32

Answer: (c)

English Language and Comprehension

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

The plan was very _____ and took a lot of time to develop.

(a) elaborates

(b) being elaborate

(c) elaboration

(d) elaborate

Answer: (d)

2. Parts of the following sentence have been given as options. Select the option that contains an error. Please hang with for two minutes while I finish cleaning the utensils.

(a) Please hang with

(b) while I finish cleaning

(c) the utensils

(d) for two minutes

Answer: (a)

3. Select the most appropriate meaning of the given idiom/phrase.

Throw in the towel

(a) To give up or surrender

(b) To prepare to fight

(c) To take responsibility for a situation while another person is temporarily absent

(d) To cause an activity or process to continue

Answer: (a)

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

The vegetation in this area of the forest is very dense.

(a) Spatial
(b) Sparse
(c) Spare
(d) Spruce

Answer: (b)

6. Select the INCORRECTLY spelt word.

(a) Novelist
(b) Eternal
(c) Throw
(d) Infnite

Answer: (d)

7. Select the INCORRECTLY spelt word.

(a) Credeble
(b) Creative
(c) Explosive
(d) Devoted

Answer: (a)

10. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
(1) We knocked across
(2) early on Saturday
(3) to enjoy
(4) the beautiful weather.

(a) We knocked across
(b) early on Saturday
(c) to enjoy
(d) the beautiful weather.

Answer: (a)

11. Select the most appropriate ANTONYM for the underlined word in the given sentence.

Her profile was complete on the company website.

(a) received
(b) uploaded
(c) created
(d) incomplete

Answer: (d)

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

A serpent having many heads in Greek mythology

(a) Cobra
(b) Python
(c) Hydra
(d) Eopsin

Answer: (c)

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

With the increasing reliance on digital systems, ensuring robust cybersecurity measures is _____ to protect against online threats.

(a) extraneous
(b) superfluous
(c) paramount
(d) impartial

Answer: (c)

14. Select the most appropriate antonym for the word provided in the bracket to fill in the blank. The professor delivered a _____ lecture on quantum physics. (simplified)

(a) Plain
(b) Refined
(c) Lengthy
(d) Complex

Answer: (d)

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

Whoever got the <u>few</u> answers correct has to leave the room.

(a) most few
(b) fewer
(c) more fewer
(d) fewest

Answer: (d)

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

Hamper

(a) Hinder
(b) Gift
(c) Pamper
(d) Irritate

Answer: (a)

17. Parts of the following sentence have been given as options. Select the option that contains an error. My aunt came from Switzerland by the flight which was landing at 5:00 a.m. yesterday.

(a) Switzerland by the
(b) My aunt came from
(c) flight which was landing
(d) at 5:00 a.m. yesterday.

Answer: (c)

18. Select the most appropriate option to fill in the blanks. A buzzing _____ can ____ dangerous.

(a) bee; be
(b) dear; deer
(c) deer; dear
(d) be; bee

Answer: (a)

19. Select the appropriate option that can substitute the underlined idiom in the given sentence.

The interns explained the whole issue to the coordinator in a nutshell.

(a) in a brief manner
(b) in an uncertain way
(c) in a secret way
(d) in a discouraging manner

Answer: (a)

Passage — for questions 21–25

> In the following passage, some words have be eted. Read the passage carefully and select the most appropriate option to fill in each blank.
>
> Until that moment, every director in Hollywood had accepted as gospel (1)_____ that the audience should not be taxed too much. Welles struck a (2)_____ at these beliefs, without displaying the slightest of qualms. Visually, 'Citizen Kane' was shot with a harsh sharpness which (3)_____ every scene. Traditionally, every make-up man and cameraman in Hollywood had to keep a careful (4)_____ on the appearance of the heroine. Welles refused to follow this (5)_____ in the case of his own heroine. For the first time, dialogue was presented in its realistic form.

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

(a) followers
(b) blasphemy
(c) truth
(d) Bible

Answer: (c)

22. Select the most appropriate option to fill in blank number 2
    (a) blue
    (b) blow
    (c) bellow
    (d) blew
    Answer: (b)

23. Select the most appropriate option to fill in blank number 3
    (a) permeated
    (b) promoted
    (c) prevented
    (d) permitted
    Answer: (a)

24. Select the most appropriate option to fill in blank number 4
    (a) ear
    (b) nose
    (c) leg
    (d) eye
    Answer: (d)

25. Select the most appropriate option to fill in blank number 5
    (a) practicals
    (b) prose
    (c) practice
    (d) practise
    Answer: (c)

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)**	3	**(b)**	4	**(a)**	6	**(d)**	8	**(b)**	10	**(a)**
11	**(a)**	12	**(b)**	13	**(c)**	14	**(d)**	15	**(d)**	16	**(b)**
17	**(a)**	18	**(d)**	20	**(d)**						

Reasoning Ability and Problem Solving

1	**(b)**	2	**(a)**	3	**(c)**	4	**(d)**	5	**(b)**	7	**(d)**
8	**(d)**	9	**(b)**	10	**(b)**	11	**(d)**	13	**(a)**	14	**(d)**
15	**(d)**	17	**(d)**	20	**(b)**						

General Awareness

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

English Language and Comprehension

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