PREVIOUS YEAR PAPER

SSC MTS 2024 — 28 October 2024, Shift 1

SSC MTS & Havaldar · 28 October 2024 · 9:00 AM - 11:00 AM

69 of the paper's 89 questions · marks per question not printed on the response sheet

Left out of the original paper: 20 (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 28 October 2024, 9:00 AM - 11:00 AM. 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-2024-28-oct-shift-1/

Numerical and Mathematical Ability

1. A man riding his bike covers 960 m in 64 sec. What is his speed in km/hr?

(a) 64
(b) 15
(c) 50
(d) 54

Answer: (d)

4. Tannish travels from A to B at a speed of 20 km/h, from B to C at 15 km/h and from C to D at 30 km/h. If AB = BC = CD, then find Tannish's average speed for the whole journey.

(a) 21 km/h
(b) 19 km/h
(c) 22 km/h
(d) 20 km/h

Answer: (d)

6. Find the simple interest (in ₹) on ₹2500 as a sum borrowed at 6% per year rate of interest for 4 years.

(a) 540
(b) 600
(c) 560
(d) 640

Answer: (b)

7. The average of five numbers is 38. If one number is excluded, their average is 36. Find the excluded number.

(a) 38
(b) 41
(c) 49
(d) 46

Answer: (d)

8.

The sale of readymade garments (in million) from four branches of a garment company during 2010 and 2011 is shown in the table below.

Branch/Year	2010	2011
A1	97	123
A2	105	77
A3	122	148
A4	114	132

The sale of which branch of the garment company (in 2010 and 2011 combined) was the minimum?

(a) A1
(b) A4
(c) A2
(d) A3

Q.9 The number of marbles in three bags is in t[illegible]atio of 2 : 3 : 4. If 12 marbles are added to each bag, then the ratio changed to 8 : [illegible] total number of marbles in the beginning was:
1. 200

2. 162

3. 126

4. 216

Answer: (c)

9. The number of marbles in three bags is in the ratio of 2 : 3 : 4. If 12 marbles are added to each bag, then the ratio changed to 8 : 11 : 14. The total number of marbles in the beginning was:

(a) 200
(b) 162
(c) 126
(d) 216

Answer: (b)

11. By selling a TV set for₹26,000, a seller earns 30% profit. If the production cost is increased by 10%, what should be the new selling price of a set so as to gain 15% profit?

(a) ₹28,300
(b) ₹30,300
(c) ₹26,300
(d) ₹25,300

Answer: (d)

12. The HCF of 1.75, 5.6 and 7 is:

(a) 0.07
(b) 0.35
(c) 0.7
(d) 3.5

Answer: (b)

13. The average weight of 40 athletes and 5 trainers is 72 kg. When six more athletes of average weight 65 kg are included in the group, what is the average weight (in kg) of the group? (Rounded off to 2 decimal places)

(a) 71.18
(b) 65.21
(c) 72.25
(d) 69.37

Answer: (a)

15. Find the average of all odd numbers between 1 and 30.

(a) 20
(b) 30
(c) 10
(d) 40

Answer: (a)

16. A trader sells an item at 25% profit. Had he bought it at 15% more and sold it for₹147 more, he would have earned a profit of 30%. Find the cost price of the item.

(a) ₹650
(b) ₹525
(c) ₹450
(d) ₹600

Answer: (d)

19. A shopkeeper marks his good 12% above the cost price and allows a discount of 8.5% on the marked price. Find his profit or loss percentage.

(a) Loss 2.48%

(b) Profit 2.48%

(c) Loss 4.65%

(d) Profit 4.65%

Answer: (b)

20. A family of seven minors and some adults has an average wheat consumption of 11.10 kg. The average consumption for minors is 5.5 kg per person, and for adults, it is 16 kg per person. Find the number of adults in the family.

(a) 6

(b) 5

(c) 8

(d) 10

Answer: (c)

Reasoning Ability and Problem Solving

1. In a certain code language, ‘i know you’ is written as ‘mo rc tp’ and ‘do they know’ is written as ‘hk mo be’. How is ‘know’ written in the given code language?

(a) be

(b) mo

(c) tp

(d) rc

Answer: (b)

2. 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 glasses are cups. All cups are plates.

Conclusions:
(I) At least some plates are glasses.
(II) All cups are glasses.

(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: (a)

3. Seven people R, S, T, D, E, F and G are sitting around a circular table, facing the centre (but not necessarily in the same order). Only two people are sitting between S and G when counted from the right of S. Only two people are sitting between E and T when counted from the left of E. R is sitting second to the right of G. T is not an immediate neighbour of R. D is not an immediate neighbour of G. Who is sitting to the immediate left and to the immediate right of F, respectively?

(a) T and S

(b) G and S

(c) T and G

(d) G and T

Answer: (c)

4. TCKS is related to WFNV in a certain way based on the English alphabetical order. In the same way, YHPX is related to BKSA. To which of the following is HPXG related, following the same logic?

(a) KSJL

(b) KSAJ

(c) SKKA

(d) KSJA

Answer: (b)

5. 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.) (19, 8) (14, 29, 15)

(a) (18, 21, 7)

(b) (22, 25, 9)

(c) (7, 35, 23)

(d) (16, 28, 12)

Answer: (d)

7. In a certain code language, ‘paint the wall’ is written as ‘jh dw qp’ and ‘wall of honour’ is written as ‘fh ut dw’. How is ‘wall’ written in the given language?

(a) ut

(b) dw

(c) jh

(d) qp

Answer: (b)

8. Which of the following interchanges of signs would make the given equation correct? 57 – 19 × 18 + 9 ÷ 45 = 18

(a) + and ×

(b) ÷ and –

(c) ÷ and ×

(d) + and ÷

Answer: (b)

9. 11 is related to 45 following a certain logic. Following the same logic, 3 is related to 13. To which of the following is 6 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 13can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1and 3 is not allowed)

(a) 23
(b) 28
(c) 25
(d) 26

Answer: (c)

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

226 231 236 241 246 ?

(a) 254
(b) 252
(c) 251
(d) 253

Answer: (c)

11. In a certain code language, 'GOLF' is coded as '6428' and 'OPEN' is coded as '7653'. What is the code for 'O' in the given code language?

(a) 4
(b) 6
(c) 7
(d) 5

Answer: (b)

13. In a certain code language, ‘ONLY’ is coded as ‘2648’ and ‘NICE’ is coded as ‘7534’.What is the code for ‘N’ in the given code language?

(a) 4
(b) 2
(c) 7
(d) 6

Answer: (a)

14. What will come in the place of ‘?’ in the following equation, if ‘+’ and ‘–’ are interchanged and ‘×’ and ‘÷’ are interchanged? 30 – 10 ÷ 63 × 9 + 15 =?

(a) 80
(b) 85
(c) 87
(d) 90

Answer: (b)

17. LRPN is related to SYWU in a certain way based on the English alphabetical order. In the same way, IOMK is related to PVTR. To which of the following is GMKI related, following the same logic?

(a) TNPR
(b) TNRP
(c) NTPR
(d) NTRP

Answer: (d)

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

WSF, BUK ,GWP ,LYU, ?

(a) PAY
(b) QAZ
(c) RBZ
(d) RZY

Answer: (b)

20. A, B, C, D, E, F and G are sitting around a circular table facing away from the centre (but not necessarily in the same order). Only 3 people are sitting between A and D when counted from the right of A. B is sitting 2 nd to the left of D. F is sitting immediate to the right of C. E is not an immediate neighbour of D. What is the position of F with respect to G?

(a) 2 nd to the right
(b) 2 nd to the left
(c) 3 rd to the left
(d) 3 rd to the right

Answer: (d)

General Awareness

1. Who among the following wrote a book called 'Indica' based on his travels and experiences in Mauryan India?

(a) Pliny
(b) Strabo
(c) Megasthenes
(d) Diodorus

Answer: (c)

2. Which of the following Khayal artists is the founding father of Lalit Kala Kendra of the University of Pune?

(a) Shiv Kumar Sharma
(b) Kishan Maharaj
(c) Ravi Shankar
(d) Bhimsen Joshi

Answer: (d)

3. Which red and buff sandstone is the tallest tower in India built in the thirteenth century?

(a) Qutub Minar
(b) Jhulta Minar
(c) Shaheed Minar
(d) Chand Minar

Answer: (a)

4. Which part of a flower develops into a seed?

(a) Pistil
(b) Petal
(c) Ovule
(d) Stamen

Answer: (c)

5. In December 2023, which eminent agricultural economist from Kerala was conferred the distinguished title of ISAE Fellow 2023 by the Indian Society of Agricultural Economics (ISAE)?

(a) Dr. P Indira Devi
(b) Chanda Nimbkar
(c) Suman Sahai
(d) Sulochana Gadgil

Answer: (a)

6. In which of the following years did India NOT win an Olympic gold medal in hockey?

(a) 1960
(b) 1956
(c) 1952
(d) 1948

Answer: (a)

7. In which year was the microfinance movement formally launched in India on a pilot basis?

(a) 1992
(b) 2000
(c) 2010
(d) 1980

Answer: (a)

8. In which of the following states is the Jawara dance performed on the occasion of a successful harvest?

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

Answer: (b)

9. Which of the following novels is based on Malgudi, a fictional town in south India?
   (a) The Guide
   (b) My Days
   (c) Sacred Games
   (d) A Suitable Boy
   Answer: (a)

10. Which of the following is NOT a function of mesosomes?
   (a) DNA replication and distribution to daughter cells
   (b) Locomotion
   (c) Increase the surface area of the plasma membrane and enzymatic content
   (d) Respiration
   Answer: (b)

11. Madhavpur Fair in Gujarat is a _____ day long event to celebrate Lord Krishna's marriage with Rukmani.
   (a) four
   (b) three
   (c) five
   (d) two
   Answer: (c)

12. An Ummathat folk dancer from Karnataka _____ ad been honoured with Padma Shri in 2023.
   (a) Rani Machaiah
   (b) Sharan Rani Backliwal
   (c) Rani Karnaa Nayak
   (d) Devika Rani
   Answer: (a)

13. Who among the following was the founder of 'Bhoodan Yajna' in India?
   (a) Subhas Chandra Bose
   (b) Vallabhbhai Patel
   (c) Vinoba Bhave
   (d) Mahatma Gandhi
   Answer: (c)

14. Which of the following states is characterised by salt marshes known as 'Rann'?
   (a) Maharashtra
   (b) Jharkhand
   (c) Gujarat
   (d) Punjab
   Answer: (c)

15. Who among the following was a leader of Garam Dal, a group of radical nationalists?

(a) Dadabhai Naoroji
(b) Bipin Chandra Pal
(c) Surendranath Banerjee
(d) Gopal Krishna Gokhale

Answer: (b)

17. The people of Himachal Pradesh make channels to bring water from a glacier or rainwater to villages for the function of mainly irrigation. These channels are locally known as:

(a) Guls or Kuls
(b) Johads
(c) Baori
(d) Khadins

Answer: (a)

18. Which Article of the Indian Constitution states the following? 'Directive Principles of State Policy are fundamental in the governance of the country and it shall be the duty of the state to apply these principles in making laws.'

(a) Article 35
(b) Article 40
(c) Article 30
(d) Article 37

Answer: (d)

19. Who among the following presides over a meeting of the Council of Ministers in a state?

(a) Chief Minister of the state
(b) Chief Secretary of the state
(c) Speaker of the Legislative Assembly
(d) Chairman of the Legislative Council

Answer: (a)

20. According to Census 2011 of India, which metropolitan city has the highest population?

(a) Kolkata
(b) Mumbai
(c) Delhi
(d) Chennai

Answer: (b)

22. Who was sworn in as the Governor of Chhattisgarh in February 2023?

(a) Anusuiya Uikey
(b) Ramesh Bais
(c) Biswabhusan Harichandan
(d) Satyadev Narayan Arya

Answer: (c)

23. Who among the following founded a suburban township near Vijayanagara, called Nagalapuram, after his mother?

(a) Krishna Deva Raya
(b) Achyuta Deva Raya
(c) Sadasiva Raya
(d) Rama Raya

Answer: (a)

24. In which sport is the term 'Dolphin Kick' commonly used?

(a) High Jump
(b) Swimming
(c) Javelin Throw
(d) Long Jump

Answer: (b)

25. According to National Multidimensional Poverty Index 2023 (A Progress Review), what was the proportion of population in multidimensional poverty (Headcount Ratio) in rural India in 2019-2021?

(a) 24.12%
(b) 12.32%
(c) 14.96%
(d) 19.28%

Answer: (d)

English Language and Comprehension

1. Select the option that correctly rectifies the underlined spelling error in the given sentence.

The reorganisation of daily life wrought by industrialisation had effects that weakened the material basis for the instietutions of the family and the community.

(a) instetutions
(b) instetusion
(c) institutions
(d) instetuitions

Answer: (c)

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

Anticipate

(a) doubt
(b) Accuse
(c) Predict
(d) Conceal

Answer: (c)

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

The discussion led by the scientist was very _____.

(a) more informative
(b) information
(c) informative
(d) most informative

Answer: (c)

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

A few students have condemned the latest project of preparing teaching aids as a waste of money.

(a) Doomed
(b) Applauded
(c) Consolidated
(d) Contradicted

Answer: (b)

7. Select the most appropriate synonym of the word 'Native' from the given sentence.

Mr. Smith believes that various tribes are the indigenous habitants of various corners of the world; unlike his contemporaries who have a viewpoint regarding an alien or foreign invasion.

(a) Foreign
(b) Alien
(c) Invasion
(d) Indigenous

Answer: (d)

8. Select the most appropriate option to fill in the blank. The sharpshooter _____ dead a man-eating tiger after it allegedly killed nine people in the last few days.

(a) fixed
(b) threw
(c) killed
(d) shot

Answer: (d)

9. In the following sentence the underlined part contains as error. Alternatives to the underlined part are given as options. Select the correct alternative. Ahuja is a cleverest lawyer.

(a) most clever
(b) clever
(c) more clever
(d) cleverer

Answer: (b)

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

A blue-eyed boy

(a) one who is favourite
(b) an unperceived observer
(c) a miser
(d) an unwelcome intruder

Answer: (a)

13. Select the most appropriate synonym of the word 'Ceased' to fill in the blank.

He was _____ from his job because of his misconduct.

(a) terminated
(b) continued
(c) progressed
(d) commenced

Answer: (a)

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

Curse

(a) Comment
(b) Praise
(c) Abuse
(d) Criticise

Answer: (b)

17. Select the correct spelling of the underlined word in the given sentence.

The magician performed a magnificant trick.

(a) magnificent
(b) magnificient
(c) magneficent
(d) magnificante

Answer: (a)

18. Select the most appropriate option to complete the given sentence in the present perfect continuous tense.

The company _____ working towards achievements in curbing slackness and fostering development.

(a) have been
(b) are being
(c) is being
(d) has been

Answer: (d)

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

Wolves' teeth are larger and strong than dog's teeth.

(a) the stronger
(b) stronger
(c) strongest
(d) more strong

Answer: (b)

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

Manisha had a great feeling for those who were junior than her.

(a) junior of
(b) junior from
(c) No substitution required
(d) junior to

Answer: (d)

Passage — for questions 21–25

> In the following passage, some words have been delet[illegible]. Read the passage carefully and select the most appropriate option to fill in each blank.
>
> Worldwide illiteracy rates have (1)_____ declined [illegible]e last few decades. One of the major reasons for this decline is the sharp increase in literacy rate[illegible])_____ young women, which is a result of specific (3)_____ designed to increase [illegible] opportunities for girls. (4)_____, there are still an estimated 771 million illiterate adults in the w[illegible] about two-thirds of whom are (5)_____.

21. Select the most appropriate option to fill in blank no. 1.

(a) consequently
(b) thirdly
(c) consistently
(d) wearily

Answer: (c)

22. Select the most appropriate option to fill in blank no. 2.

(a) over
(b) among
(c) against
(d) between

Answer: (b)

24. Select the most appropriate option to fill in blank no. 4.
    (a) However
    (b) Thus
    (c) Whenever
    (d) Otherwise

    Answer: (a)

25. Select the most appropriate option to fill in blank no. 5.
    (a) woman
    (b) child
    (c) women
    (d) man

    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)**	4	**(d)**	6	**(b)**	7	**(d)**	8	**(c)**	9	**(b)**
11	**(d)**	12	**(b)**	13	**(a)**	15	**(a)**	16	**(d)**	19	**(b)**
20	**(c)**										

Reasoning Ability and Problem Solving

1	**(b)**	2	**(a)**	3	**(c)**	4	**(b)**	5	**(d)**	7	**(b)**
8	**(b)**	9	**(c)**	10	**(c)**	11	**(b)**	13	**(a)**	14	**(b)**
17	**(d)**	18	**(b)**	20	**(d)**						

General Awareness

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

English Language and Comprehension

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