PREVIOUS YEAR PAPER

SSC MTS 2024 — 14 November 2024, Shift 3

SSC MTS & Havaldar · 14 November 2024 · 4:00 PM - 5:30 PM

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

Left out of the original paper: 15 (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 14 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-2024-14-nov-shift-3/

Numerical and Mathematical Ability

1. The average weight of a family of five members (in kg) whose weights are 40 kg, 49 kg, 56 kg, 68 kg and 38 kg is:

(a) 51.2
(b) 50.2
(c) 52.2
(d) 49.2

Answer: (b)

2. The quantity of milk ordered on the first, second, third and fourth day of a four day ceremony is in the proportion of 30 litres, 24 litres, 35 litres and 'x' litres, respectively. Find the quantity of milk (in litres) ordered on the fourth day.

(a) 30
(b) 26
(c) 32
(d) 28

Answer: (d)

3. What is the HCF of 513,1134 and 1215?

(a) 27
(b) 81
(c) 3
(d) 19

Answer: (a)

4. Find the simple interest (in ₹) on ₹3500 as a sum borrowed at 7% per year rate of interest for 4 years.

(a) 940
(b) 920
(c) 1020
(d) 980

Answer: (d)

5. For a sum of ₹15,000 the rate of interest of 8.5% per annum simple interest, find the interest earned (in ₹) in 5 years 3 months.

(a) 6,693.75
(b) 21,693.75
(c) 21,375
(d) 6,375

Answer: (a)

6. The average weight of Rakesh and his five friends is 62 kg. If Rakesh is 6 kg heavier than the average weight of his five friends, then find the weight of Rakesh.

(a) 62 kg
(b) 61 kg
(c) 68 kg
(d) 67 kg

Answer: (d)

7. A solid hemisphere of radius 12 cm is melted into N identical cones, each of radius 6 cm and height 8 cm. What is the value of N?

(a) 10
(b) 15
(c) 8
(d) 12

Answer: (d)

8. Two trains of lengths 110 m and 100 m a[illegible] towards each other on parallel lines at the speed of 50 km/h and 58 km/h, respectively. [illegible]ng will they take to cross each other after they meet?

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

Answer: (d)

9. What sum (in ₹) will earn a simple interest of ₹360 in 3 years at 12% per year rate of interest?

(a) 1500
(b) 500
(c) 2000
(d) 1000

Answer: (d)

11. A dealer sells his goods at 5% loss on cost price but uses 12 % less weight. Find his percentage of loss or gain.

(a) Gain 8 %
(b) Loss 8 %
(c) Loss 7 %
(d) Gain 7 %

Answer: (a)

14. The average of two numbers is 13.5 and the square root of their product is . Find the numbers.

(a) 12 and 15
(b) 10 and 17
(c) 13 and 14
(d) 11 and 16

Answer: (a)

17. If a semi-circular plot has radius 100 m, find its perimeter. (Use π = 3.14)

(a) 414 m
(b) 500 m
(c) 828 m
(d) 514 m

Answer: (d)

20. A shop has two promotional offers: buy three shi get one shirt free, or a 25% discount on the marked price. If a customer buys five using both of , what discount will he get all together?

(a) 50%
(b) 30%
(c) 27.5%
(d) 25%

Answer: (d)

Reasoning Ability and Problem Solving

1. In a certain code language, ‘you read book’ is written as ‘hm rn op’ and ‘book is good’ is written as ‘cf am rn’. What is the code for ‘book’ in that language?

(a) rn
(b) am
(c) op
(d) cf

Answer: (a)

2. In a certain code language, 'MONKEY' is coded as 'BHNQRP' and 'NAP' is coded as 'SDQ'. What is the code for 'JUTEBAG' in the given code language?

(a) JDEHUXM
(b) JDEHWXM
(c) JDEKWXM
(d) JDEHWXN

Answer: (b)

3. In a certain code language, 'GOES' is coded as '4268' and 'OILY' is coded as '3457'. What is the code for 'O' in the given code language?

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

Answer: (c)

4. What will come in the place of the question mark (?) in the following equation, if '+' and '×' are interchanged and '−' and '÷' are interchanged? 78 − 6 ÷ 6 + 2 × 8 = ?

(a) 7
(b) 4
(c) 9
(d) 0

Answer: (c)

5. Read the given statements and conclusi[illegible]carefully. Assuming that the information given in the statements is true, even if it appears to be at [illegible]e with commonly known facts, decide which of the given conclusions logically follow(s) from the statements. Statements: Some tomatoes are potatoes. No potato is an onion. Conclusions:
(I) Some potatoes are not tomatoes.
(II) No tomato is an onion.

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

Answer: (c)

7. CDFG is related to FGIJ in a certain way based on the English alphabetical order. In the same way, MNPQ is related to PQST. To which of the following is HIKL related, following the same logic?

(a) KLNP
(b) LKNO
(c) JKNO
(d) KLNO

Answer: (d)

8. Select the number from among the given options that can replace the question mark (?) in the following series. 10, ?, 46, 94, 190, 382, 766

(a) 20

(b) 24

(c) 18

(d) 22

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 their constituent digits. E.g. 13 – Operations on 13 such as adding/ subtracting / multiplying to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) 8, 72 11, 99

(a) 15, 125

(b) 17, 153

(c) 21, 123

(d) 19, 131

Answer: (b)

10. A, B, C, D, E, F, G and H are sitting around a circul[illegible]able facing out to the centre (but not necessarily in the same order). D is sitting to the imm[illegible]iate left of A and third to the right of H. B is sitting third to the right of F. F is the immediate neig[illegible]our of C and G. C is sitting third to the right of A. Who is sitting fourth to the right of A?

(a) D

(b) H

(c) C

(d) B

Answer: (b)

11. 3 is related to 40 following a certain logic. Following the same logic, 5 is related to 66. To which of the following is 10 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) 129

(b) 125

(c) 131

(d) 127

Answer: (c)

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

XCW, UGS, RKO ,?, LSG

(a) OOM
(b) OOK
(c) OMN
(d) OLO

Answer: (b)

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

24 × 576 ÷ 72 – 108 + 91 = ?

(a) 2
(b) 12
(c) 20
(d) 18

Answer: (c)

15. A, B, C, D, E, F and G are sitting around a circular table facing the centre (but not necessarily in the same order). B sits to the immediate left of E. C sits to the immediate left of F. F sits second to the left of G. D sits third to the left of E.

Who sits third to the left of A?

(a) F
(b) B
(c) G
(d) E

Answer: (c)

18. 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 papayas are oranges. Some oranges are apples.

Conclusions:
(I) At least some apples are oranges.
(II) Some papayas are apples.

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

Answer: (c)

20. 'RJ 17' is related to 'QL 19' in a certain way. In the same way, 'CP 12' is related to 'BR 14'. To which of the following is 'OJ 22' related following the same logic?

(a) NK 21
(b) PK 23
(c) NL 24
(d) QJ 22

Answer: (c)

General Awareness

1. Children's Day in India is celebrated to commemorate the birth anniversary of _____.

(a) Pandit Jawaharlal Nehru
(b) Dr. BR Ambedkar
(c) Dr. Sarvepalli Radhakrishnan
(d) Dr. APJ. Abdul Kalam

Answer: (a)

2. Chili peppers produce a burning sensation in any tissue with which they come into contact. What is the compound responsible for this?

(a) Lycopene
(b) Capsaicin
(c) Formic acid
(d) Acetic acid

Answer: (b)

3. Jallianwala Bagh is located in which city?

(a) Chandigarh
(b) Amritsar
(c) Ambala
(d) Ludhiana

Answer: (b)

4. The First Battle of Panipat (1526) marked the beginning of:

(a) British East India company's rule in India
(b) Mughal's Rule in India
(c) French East India Company's rule in India
(d) Sultanat's rule in India

Answer: (b)

5. Which of the following was the mascot of the 37 th National Games?

(a) Ammu
(b) Savaj
(c) Chhaua
(d) Moga

Answer: (d)

6. Identify the tributary of the Brahmaputra River from the following.

(a) Hindan
(b) Kali Ganga
(c) Barakar
(d) Burhi Dihing

Answer: (d)

7. Which of the following amendments, made in September 2023, is known as 'Nari Shakti Vandan Adhiniyam'?

(a) 128 th
(b) 105 th
(c) 104 th
(d) 106 th

Answer: (a)

8. Which among the following dynasties originated from the Yueh-chih tribe of China?

(a) Satavahanas
(b) Kushanas
(c) Guptas
(d) Parthians

Answer: (b)

9. Which edition of 'Pradhan Mantri Kaushal Vikas Y[illegible]a' has been announced in union budget 2023?

(a) 3.0
(b) 4.0
(c) 2.0
(d) 5.0

Answer: (b)

10. As per Census 2011, what is the average female literacy rate in India?

(a) 74.34%
(b) 65.46%
(c) 82.45%
(d) 60.76%

Answer: (b)

11. How many fundamental duties were added by the 42 nd Constitutional Amendment Act 1976?

(a) Fifty teen
(b) Thirteen
(c) Ten
(d) Eleven

Answer: (c)

12. What is the term for the gradual, sequential changes in species composition in an ecosystem over time?

(a) Adaptation
(b) Succession
(c) Extinction
(d) Evolution

Answer: (b)

13. Which of the following classical dance styles manifests the element of sky?

(a) Manipuri
(b) Kathakali
(c) Kathak
(d) Kuchipudi

Answer: (b)

14. The Hugli industrial region is located in which state?

(a) Gujarat
(b) Telangana
(c) West Bengal
(d) Karnataka

Answer: (c)

15. The novel 'Pinjar' that was later converted into a ..ion picture was written by:

(a) Dharamveer Bharati
(b) Ismat Chugtai
(c) Krishna Sobti
(d) Amrita Pritam

Answer: (d)

16. Limestone is composed of:

(a) aluminium oxide
(b) calcium carbonate
(c) sodium carbonate
(d) iron oxide

Answer: (b)

17. Which state hosted the 6 th edition of Khelo India Youth Games in 2024?

(a) Karnataka
(b) Telangana
(c) Tamil Nadu
(d) Kerala

Answer: (c)

19. Vinod Kevin Bachan has been selected for the Ustad Bismillah Khan Yuva Puraskar 2021, for his contribution to which Indian dance form?

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

Answer: (a)

21. Who among the following social reformers ruled out the practice of Sati on the basis of Hindu religious texts?

(a) Raja Ram Mohan Roy
(b) Swami Vivekanand
(c) Ishwar Chandra Vidyasagar
(d) Jyotiba Phule

Answer: (a)

22. Which Article of the Constitution of India describes a key feature of 'Universal Adult Franchise' that grants the right to vote to citizens, above the age of 18 years in India?

(a) Article 315
(b) Article 367
(c) Article 352
(d) Article 326

Answer: (d)

23. Which brick-made minaret holds the re[illegible]d fo[illegible]ing the world's tallest tower at 73 metres?

(a) Minaret of Jam (Afghanistan)
(b) Kalyan Minaret (Uzbekistan)
(c) Qutb Minar (India)
(d) Minaret of Turin (Italy)

Answer: (c)

24. How many covalent bonds are present between the constituent atoms in the molecules of Butane and Hexane, respectively?

(a) 14 and 20
(b) 10 and 16
(c) 11 and 19
(d) 13 and 19

Answer: (d)

25. Both, Rajesh Prasanna and Rishabh Prasanna are associated with which musical instrument?

(a) Flute
(b) Guitar
(c) Piano
(d) Mandolin

Answer: (a)

English Language and Comprehension

1. Select the most appropriate option that can substitute the underlined segment in the given sentence. Ramesh is fond at playing guitar in his free time.

(a) for
(b) in
(c) on
(d) of

Answer: (d)

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

Pull someone's leg

(a) To avert a great danger
(b) To take a situation seriously or earnestly
(c) To tease or play a joke on someone
(d) To physically pull the legs of a person

Answer: (c)

3. Select the INCORRECTLY spelt word.

(a) Resort
(b) Scatter
(c) Riside
(d) Scarf

Answer: (c)

4. 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.

My cousin thinks that / English is difficult / than other subjects.

(a) English is difficult
(b) My cousin thinks that
(c) than other subjects
(d) No error

Answer: (a)

5. Select the most appropriate option to fill in the blank. Only when the floods get _____ will world governments begin to act.

(a) lucky
(b) gullible
(c) worse
(d) frequently

Answer: (c)

6. Select the most appropriate option to fill in the blank. A majority of Indians prefer to use the Internet for _____ booking and other financial services.

(a) attending
(b) accessing
(c) dispersing
(d) improving

Answer: (b)

8. Select the most appropriate option to fill in the blanks. I did not _____ that he would _____ the offer.

(a) except; accept
(b) bate; bait
(c) bait; bate
(d) expect; accept

Answer: (d)

9. Select the option that correctly rectifies the underlined spelling error.

Thank you for this jar of asorted cookies.

(a) assorted
(b) asoted
(c) essorted
(d) esorted

Answer: (a)

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

Attract

(a) Rear
(b) Repel
(c) Recur
(d) React

Answer: (b)

11. Select the most appropriate option to fill in the blank. Fish live in aquariums and pigs live in _____.

(a) stables
(b) dens
(c) sties
(d) kennels

Answer: (c)

12. Select the most appropriate option to fill in the blank to complete the idiom and make the sentence meaningful. Her company's new product launch was a real _____ squib.

(a) dirty
(b) dear
(c) damp
(d) deaf

Answer: (c)

13. The given sentence is divided into three segments. One of them may contain a grammatical error. Select the option that has the segment with the error. If there is no error, select 'No error' as your answer. Meenu looks/ much better/ today.

(a) Meenu looks
(b) today.
(c) No error
(d) much better

Answer: (c)

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

It was an insight / and determination of the lady doctor / that people were / able to lead a normal life.

(a) It was an insight
(b) and determination of the lady doctor
(c) able to lead a normal life
(d) that people were

Answer: (a)

16. Select the INCORRECTLY spelt word.

(a) Comparison
(b) Naviggetion
(c) Strengthen
(d) Cleansing

Answer: (b)

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

Please pass _____ the salt.

(a) my
(b) mine
(c) me
(d) I

Answer: (c)

18. 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. I thought of this idea / just when you called / me yesterday.

(a) I thought of this idea

(b) No error

(c) me yesterday

(d) just when you called

Answer: (b)

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

Radha stepped backward to avoid the incoming traffic.

(a) Beside

(b) Affront

(c) Forward

(d) Behind

Answer: (c)

20. Select the option that expresses the given sentence in future continuous tense form I shall come again in the afternoon for lunch.

(a) I will be coming again in the afternoon for lunch.

(b) I shall have come again in the afternoon for lun

(c) I will come again in the afternoon for lunch.

(d) I shall be coming again in the afternoon for l h.

Answer: (d)

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. To forgive an injury is often (1)_____ to be a sign of weakness; it is really a sign of (2)___ . It is easy to allow oneself to be carried away by resentment and hate into an act of (3)_____; but it takes a strong character to restrain those natural passions. The man who (4)_____ an injury proves himself to be the superior of the man who wronged him, and puts the wrong-doer to shame. (5)___ may even turn a foe into a friend.

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

(a) granted

(b) considered

(c) allowed

(d) given

Answer: (b)

22. Select the most appropriate option to fill in blank number 2.
    (a) intelligence
    (b) aptitude
    (c) usefulness
    (d) strength
    Answer: (d)

23. Select the most appropriate option to fill in blank number 3.
    (a) noncompliance
    (b) overabundance
    (c) jurisprudence
    (d) vengeance
    Answer: (d)

24. Select the most appropriate option to fill in blank number 4.
    (a) achieves
    (b) contrives
    (c) forgives
    (d) involves
    Answer: (c)

25. Select the most appropriate option to fill in blank number 5.
    (a) Boldness
    (b) Coyness
    (c) Forgiveness
    (d) Fondness
    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	**(b)**	2	**(d)**	3	**(a)**	4	**(d)**	5	**(a)**	6	**(d)**	7	**(d)**	8	**(d)**
9	**(d)**	11	**(a)**	14	**(a)**	17	**(d)**	20	**(d)**						

Reasoning Ability and Problem Solving

1	**(a)**	2	**(b)**	3	**(c)**	4	**(c)**	5	**(c)**	7	**(d)**	8	**(d)**	9	**(b)**
10	**(b)**	11	**(c)**	13	**(b)**	14	**(c)**	15	**(c)**	18	**(c)**	20	**(c)**		

General Awareness

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

English Language and Comprehension

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