PREVIOUS YEAR PAPER

SSC MTS 2024 — 5 November 2024, Shift 3

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

70 of the paper's 90 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 5 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-2024-5-nov-shift-3/

Numerical and Mathematical Ability

2. A 296-m long train is running at a speed of 72 km/h. In how much time will it pass a 144-m long bridge?

(a) 30 seconds
(b) 25 seconds
(c) 22 seconds
(d) 27.5 seconds

Answer: (c)

3. Find the average of the first 10 natural numbers.

(a) 50
(b) 5.5
(c) 55.5
(d) 50.5

Answer: (b)

4. A library has an average number of 768 visitors on Monday, and 258 visitors on others day. Find the average number of visitors per day in a month of 30 days, beginning with Tuesday.

(a) 362
(b) 263
(c) 236
(d) 326

Answer: (d)

6. Find the simple interest (in ₹) on ₹3500 as a sum borrowed at 4% per year rate of interest for 5 years.

(a) 640
(b) 740
(c) 660
(d) 700

Answer: (d)

7. Find the simple interest (in ₹) on ₹2500 as a sum borrowed at 9% per year rate of interest for 5 years.

(a) 1085
(b) 1165
(c) 1065
(d) 1125

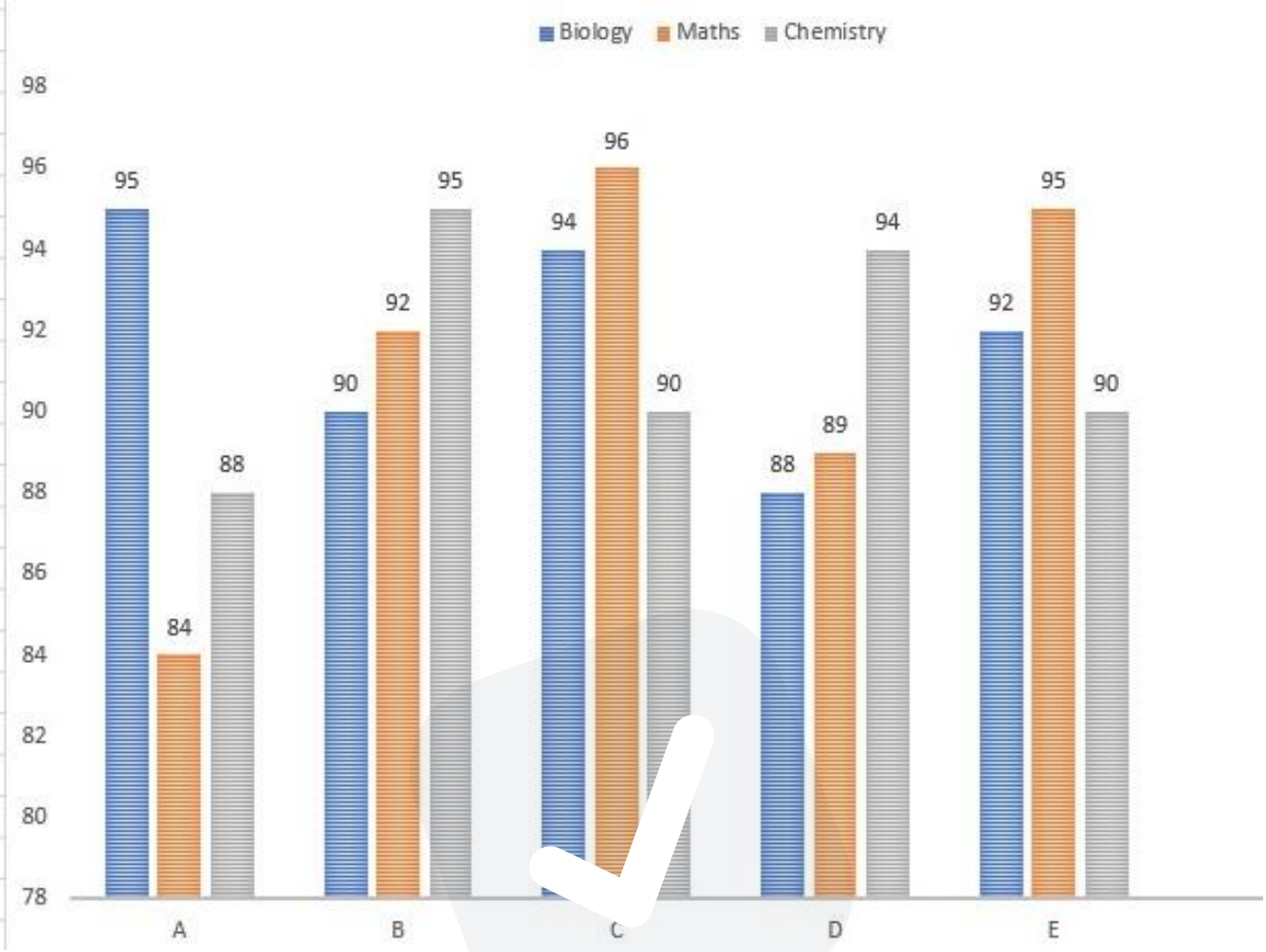
Answer: (d)

8. A supermarket gives two successive discounts on a mobile phone marked ₹19,000. The first discount given is 14%. If the customer pays ₹15,048 for the phone, then what was the second discount (rounded up to two decimal points)?

(a) 9.26%
(b) 8.00%
(c) 7.91%
(d) 7.51%

Answer: (c)

9. Study the given bar graph and answer the question that follows. The given bar graph shows the annual exam average marks for five sections of class XI in Biology, Mathematics and Chemistry. The maximum marks of each subject is 100.



Find the ratio between the average marks of five sections scored in Biology to the average marks scored in Chemistry.

(a) 2 : 5

(b) 459 : 457

(c) 59 : 37

(d) 1 : 3

Answer: (b)

10. The ratio of two numbers is 3:4 and their HCF is 4. Then, their LCM is:

(a) 24

(b) 28

(c) 38

(d) 48

Answer: (d)

12. The average of a non-zero number and its square is 7 times the number. The number is:

(a) 14

(b) 91

(c) 7

(d) 13

Answer: (d)

13. The length of a rectangle is four-fifths of the side of the square, whose area is 1225 units 2 . What is the area (in units 2) of the rectangle if the breadth is 12 units?

(a) 336

(b) 225

(c) 300

(d) 425

Answer: (a)

14. In a factory, the average monthly salary of 25 unskilled workers is ₹11,950, that of 20 mechanics is ₹24,000 and that of 5 supervisors is ₹35,000. The average monthly salary of all the employees is:

(a) ₹19,180

(b) ₹19,225

(c) ₹19,055

(d) ₹19,075

Answer: (d)

17. A shopkeeper sells an article for ₹450.30 with a l[illegible] of 21%. What is the cost price (in ₹) of the article?

(a) 429

(b) 570

(c) 521

(d) 485

Answer: (b)

19. A dealer made some profit by selling a laptop for ₹88,000, which is equal to the amount of loss incurred on selling the same laptop for ₹72,000. If he had sold the laptop for ₹96,000, then his profit percentage would have been:

(a) 31.7%

(b) 25%

(c) 20%

(d) 37.5%

Answer: (c)

20. A thief is 150 metres away from a policeman. If the speed of the thief is 93 km/h and the speed of the policeman is 108 km/h, then the time taken by the policeman to catch the thief is:

(a) 32 seconds

(b) 40 seconds

(c) 38 seconds

(d) 36 seconds

Answer: (d)

Reasoning Ability and Problem Solving

2. HN74 is related to TZ55 in a certain way . In the same way, XD60 is related to JP41. To which of the following is ZF55 related, following the same logic?

(a) LR36

(b) RL46

(c) RL36

(d) LR46

Answer: (a)

4. Select the set in which the numbers are related in the same way as are the numbers of the following sets. (10, 360, 3) (12, 720, 5) (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.)

(a) (11, 956, 8)

(b) (13, 1009, 7)

(c) (8, 576, 6)

(d) (17, 816, 3)

Answer: (c)

7. In a certain code language, ‘get a driver’ is written as ‘ki jo hu’ and ‘better get out’ is writtenas ‘ji hy ki’. How is ‘get’ writtenin the given language?

(a) ki

(b) jo

(c) ji

(d) hy

Answer: (a)

8. Select the number from among the given options that can replace the question mark (?) in the following series. 12, 16, 22, 32, ?

(a) 45

(b) 44

(c) 46

(d) 47

Answer: (c)

9. In a certain code language, 'will you go' is coded as 'rp zs tu' and 'you come here' is written as 'ar cm tu'. How is 'you' coded in that code language?

(a) rp
(b) zs
(c) tu
(d) ar

Answer: (c)

12. What should come in place of the question mark (?) in the following series based on the English alphabetical order? SWS, TUQ, USO, VQM, ?

(a) WOL
(b) WOK
(c) VOK
(d) VOL

Answer: (b)

13. In a certain code language, 'GIRL' is coded as '3571' and 'TAGS' is coded as '4685'. What is the code for 'G' in that language?

(a) 8
(b) 3
(c) 4
(d) 5

Answer: (d)

14. CHUM is related to DJVO in a certain w[illegible]base[illegible]n the English alphabetical order. In the same way, NOPA is related to OQQC. To which of t[illegible]wing is DYIE related, following the same logic?

(a) EAJG
(b) CCHI
(c) DBHG
(d) CBGI

Answer: (a)

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 is sitting second to the right of A and to the immediate left of C. C is sitting second to the left of D. F is sitting to the immediate right of A. E is not an immediate neighbour of A. How many people are sitting between D and A when counted from the left of A?

(a) One
(b) Three
(c) Two
(d) None

Answer: (a)

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

22 × 484 ÷ 44 – 93 + 12 = ?

(a) 68
(b) 38
(c) 83
(d) 86

Answer: (c)

17. What will come in place of the question mark (?) in the following equation, if '+' and '–' are interchanged and '×' and '÷' are interchanged? 41 ÷ 6 + 99 × 3 – 9 = ?

(a) 220
(b) 224
(c) 222
(d) 226

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 books are racks. All tables are books.

Conclusions:
(I) At least some racks are tables.
(II) All racks are books.

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

Answer: (d)

19. Six persons P1, P2, P3, P4, P5 and P6 sit around a circular table facing towards the centre (not necessarily in the same order). P2 sits second to the left of P5. One person sits between P2 and P6 when counted from the left of P2. P3 and P2 are not neighbours of P5 and P4, respectively. Which of the following statement(s) is/are correct?
I. One person sits between P1 and P6 when counted from the right of P1.
II. P3 is an immediate neighbour of P2.

(a) Both I and II
(b) Neither I nor II
(c) Only II
(d) Only I

Answer: (c)

20. 11 is related to 65 following a certain logic. Following the same logic, 16 is related to 90. To which of the following is 21 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) 114
(b) 112
(c) 115
(d) 113

Answer: (c)

General Awareness

1. Which dynasty defeated the Kanva dynasty?

(a) Sunga Dynasty
(b) Kushan Dynasty
(c) Sakas Dynasty
(d) Satavahana Dynasty

Answer: (d)

3. The non-metallic mineral mica is used in which of the following industries?

(a) Cement industry
(b) Steel industry
(c) Glass industry
(d) Electrical industry

Answer: (d)

5. Which of the following Articles of the Constitution of India emphasises the participation of workers in the management of industries?

(a) Article 42B
(b) Article 44C
(c) Article 46D
(d) Article 43A

Answer: (d)

6. Which of the following two properties of metals are exploited to prepare very thin sheets of silver to decorate sweets?

(a) Ductility and lustre
(b) Malleability and sonorous
(c) Lustre and sonorous
(d) Malleability and lustre

Answer: (d)

7. What is the quorum of the Lok Sabha at the time of the Presidential address, which is held at the opening of each session of the Lok Sabha?

(a) One-third
(b) One-tenth
(c) One-twelfth
(d) One-fourth

Answer: (b)

8. As of July 2023, who was the Member of Parliament from the parliamentary constituency of Varanasi?

(a) Narendra Modi
(b) Rajnath Singh
(c) Smriti Irani
(d) Yogi Adityanath

Answer: (a)

9. The Muhammadan Anglo-Oriental College in Aligarh was founded by _____.

(a) Mohammad Ali Jinnah
(b) Muzaffar Ahmed
(c) Sir Syed Ahmed Khan
(d) Maulana Abul Kalam Azad

Answer: (c)

10. Panch Mahal, a palace in Fatehpur Sikri, was bu[illegible]y the Mughal Emperor _____.

(a) Jahangir
(b) Babar
(c) Akbar
(d) Shah Jahan

Answer: (c)

11. The Jhaveri Sisters are known for keeping alive the temple tradition of which of the following classical dances of India?

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

Answer: (c)

12. The historical novel, 'Train to Pakistan' was written by:

(a) Shashi Tharoor
(b) Arundhati Roy
(c) Khushwant Singh
(d) Jawaharlal Nehru

Answer: (c)

13. The Indravati National Park is located in which state?

(a) Tamil Nadu
(b) Tripura
(c) Chhattisgarh
(d) Rajasthan

Answer: (c)

14. Emani Sankara Sastry and Doraiswamy Iyengar are both associated with which musical instrument?

(a) Flute
(b) Veena
(c) Ghatam
(d) Violin

Answer: (b)

15. According to the census of India 2011, which of the following states is least urbanised?

(a) Chhattisgarh
(b) Bihar
(c) Uttar Pradesh
(d) Himachal Pradesh

Answer: (d)

17. The navigable portion of Barak River in India is the .1 km stretch between Lakhipur and Bhanga, which was declared as _____ in the year 2016.

(a) NW-5
(b) NW-8
(c) NW-16
(d) NW-10

Answer: (c)

18. Against which of the following were 'Swadeshi' and 'Boycott' used as the means of protest and struggle, for the first time in India?

(a) Rowlatt Act
(b) Partition of Bengal
(c) Simon Commission
(d) Jallianwala Bagh massacre

Answer: (b)

19. A hockey ground is rectangular in shape, measuring 91.4 m in length and _____ in width.

(a) 50 m
(b) 55 m
(c) 60 m
(d) 70 m

Answer: (b)

20. The National Population Register was created under the provisions of _____ and _____.
a. the Citizenship Act, 1965
b. the Citizenship Rules, 2004
c. the Citizenship Act, 1955
d. the Citizenship Rules, 2003

(a) a; c
(b) a; b
(c) b; d
(d) c; d

Answer: (d)

21. In May 2023, the Supreme Court interpreted which article related to the governance structure of Delhi, which outlines the principles of federalism, participatory democracy and collective responsibility?

(a) Article 226
(b) Article 323A
(c) Article 243B
(d) Article 239AA

Answer: (d)

22. Nishagandhi festival is celebrated in which of the following states?

(a) Uttarakhand
(b) Jharkhand
(c) Maharashtra
(d) Kerala

Answer: (d)

23. Which Bharatanatyam dancer is the recipient of one of India's top civilian award, the Padma Vibhushan 1977?

(a) Yamini Krishnamurthy
(b) Kelucharan Mohapatra
(c) T Balasaraswati
(d) Mallika Sarabhai

Answer: (c)

24. Where was the inaugural season of Ultimate Kho-Kho League held in 2022?

(a) Bhusawal
(b) Thane
(c) Pune
(d) Amravati

Answer: (c)

English Language and Comprehension

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

The mother told the child to erase the extra dots from the given graph.

(a) Create
(b) Shatter
(c) Delete
(d) Efface

Answer: (a)

3. The following sentence has been split into four segments. Identify the segment that contains a grammatical error. She oftenly goes / shopping with / her friends / on Saturdays.

(a) her friends
(b) on Saturdays
(c) She oftenly goes
(d) shopping with

Answer: (c)

6. Select the option that can be used as a one-word substitute for the given group of words. The rules of behaviour which guide one in a formal situation

(a) Affidavit
(b) Protocol
(c) Bargain
(d) Impropriety

Answer: (b)

7. Select the INCORRECTLY spelt word.

(a) Cautios
(b) Anxious
(c) Curious
(d) Bashful

Answer: (a)

8. Select the most appropriate option to substitute the underlined segment in the given sentence.

The company ran about of stock due to unexpectedly high demand for the product.

(a) ran out of stock due to
(b) ran around of stock due to
(c) ran across of stock due to
(d) ran on of stock due to

Answer: (a)

9. Identify the INCORRECTLY spelt word from the given sentence. Enthusiasm is one of those vital elements that transforms an indivdual and his failures into victories and success.

(a) Success
(b) Indivdual
(c) Victories
(d) Failures

Answer: (b)

10. Select the most appropriate meaning of the underlined word in the given sentence. Disclaimer on products in the markets saves manufacturer from unusual results on usage.

(a) Guarantee
(b) Approval
(c) Clause
(d) Acceptance

Answer: (c)

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

Doctors should never be _____ than others when patients come for their treatment.

(a) least caring
(b) more caring
(c) most caring
(d) less caring

Answer: (d)

12. Select the option that rectifies the underlined spelling error.

The panel submited the findings to the ministry.

(a) submittad
(b) submittd
(c) sumitted
(d) submitted

Answer: (d)

14. Identify the error in the following sentence. The zoo is under the street from the temple.

(a) zoo
(b) temple
(c) from
(d) under

Answer: (d)

15. Select the most appropriate synonym of the underlined word. The order will be operational from 1st of November.

(a) considered
(b) provoked
(c) scrapped
(d) effective

Answer: (d)

16. The following sentence has been split into four parts. Identify the part that contains a grammatical error.

A student becomes / dearer to the teachers / via participating and actively working / towards the glory of the school.

(a) A student becomes
(b) dearer to the teachers
(c) via participating and actively working
(d) towards the glory of the school.

Answer: (b)

17. Select the most appropriate ANTONYM of the underlined word in the given sentence. He was appointed as the Manager.

(a) Dismissed
(b) Disordered
(c) Assigned
(d) Disappointed

Answer: (a)

18. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

Her team played exceptionally more well in the competition.

(a) No substitution required
(b) well
(c) most well
(d) more well

Answer: (b)

19. Select the most appropriate option to fill in the blank. I have never _____ this kind of pain before surgery.

(a) experienced
(b) practised
(c) trained
(d) dedicated

Answer: (a)

20. Select the word that has the same meaning (SYNONYM) as the underlined word in the given sentence.

The doctor made a tentative diagnosis as he did not have the reports of her blood tests.

(a) provisional
(b) tedious
(c) hazardous
(d) obsolete

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.
>
> Indian villages showcase the country's rich culture and customs. Most Indians live in villages, (1)_____ agriculture, modest living and close-knit communities are the norms. Villagers wake up to roosters crowing and farm (2)_____ day. Farming is the main employment, and generations labour (3)____ the same land. Traditions, communal events and a slower pace (4)_____ village life from metropolitan life. Villagers' togetherness and shared duty make it part of India's identity, (5)_____ the lack of contemporary conveniences.

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

(a) where
(b) what
(c) which
(d) when

Answer: (a)

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

(a) all
(b) towards
(c) before
(d) after

Answer: (a)

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

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

Answer: (a)

24. Select the most appropriate option to fill in blank number 4.
    (a) compare
    (b) balance
    (c) distinguish
    (d) equate

    Answer: (c)

25. Select the most appropriate option to fill in blank number 5.
    (a) in spite
    (b) beside
    (c) instead of
    (d) despite

    Answer: (d)

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

2	**(c)**	3	**(b)**	4	**(d)**	6	**(d)**	7	**(d)**	8	**(c)**	9	**(b)**	10	**(d)**		
12	**(d)**	13	**(a)**	14	**(d)**	17	**(b)**	19	**(c)**	20	**(d)**						

Reasoning Ability and Problem Solving

2	**(a)**	4	**(c)**	7	**(a)**	8	**(c)**	9	**(c)**	12	**(b)**	13	**(d)**	14	**(a)**		
15	**(a)**	16	**(c)**	17	**(c)**	18	**(d)**	19	**(c)**	20	**(c)**						

General Awareness

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

English Language and Comprehension

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