PREVIOUS YEAR PAPER

SSC MTS 2024 — 4 November 2024, Shift 3

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

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

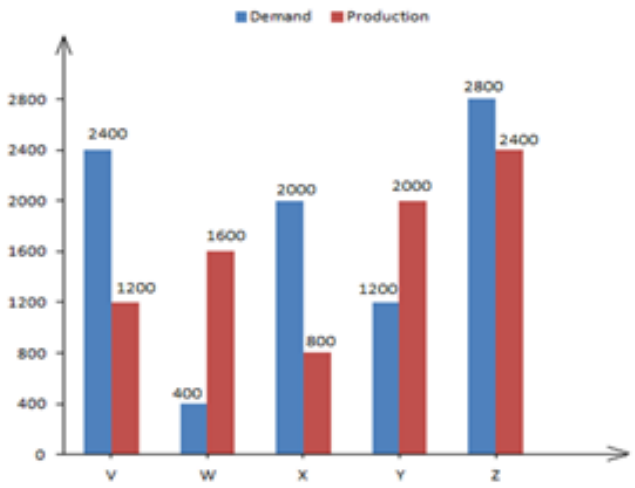
Left out of the original paper: 16 (any question that needs a figure or formatting we cannot show, has no answer in the response sheet, or could not be checked against a second copy of the paper).

Questions from the Staff Selection Commission's paper of 4 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-2024-4-nov-shift-3/

Numerical and Mathematical Ability

1. The demand and production for five businesses V, W, X, Y, and Z are shown in the accompanying chart, which illustrates them using a basic bar graph to provide an answer.



The difference between average demand and average production of the four companies (V, W, X, Y) taken together, is:

(a) 100
(b) 75
(c) 50
(d) 125

Q.2 Find the simple interest (in ₹) on ₹2 `s um borrowed at 6% per year rate of interest for 2 years. 1. 340

2. 260

3. 240

4. 300

Q.3

1.

2.

Answer: (a)

2. Find the simple interest (in ₹) on ₹2500 as a sum borrowed at 6% per year rate of interest for 2 years.

(a) 340
(b) 260
(c) 240
(d) 300

Answer: (d)

4. Ram borrowed ₹20,000 at 6% per annum and ₹25,000 at 8% per annum, for the same duration. He had to pay ₹9,600 in all as interest. What is the time period?

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

Answer: (b)

6. If Mohan's income is 20% less than Arvind's income, then how much per cent is Arvind's income more than Mohan's income?

(a) 30%
(b) 20%
(c) 15%
(d) 25%

Answer: (d)

7. A train travelling at a speed of 36 km/h c[illegible]es [illegible]ole in 24 sec. What is the length of the train?

(a) 1.5 m
(b) 300 m
(c) 240 m
(d) 30 m

Answer: (c)

8. The HCF and LCM of two numbers are 11 and 3465, respectively. If one of the two numbers is 693, what is the other number?

(a) 315
(b) 75
(c) 55
(d) 65

Answer: (c)

9. A clothing store announces a discount scheme 'Buy one shirt and get 40% off on another shirt of the same price'. What is the profit percentage of the store, given that each shirt has a cost price 60% below the marked price?

(a) 60%
(b) 120%
(c) 100%
(d) 80%

Answer: (c)

11. Two trains are running in opposite directions at the same speed. If the length of each train is 150 m and they cross each other in 15 sec, find the speed of each train (in km/hr).

(a) 18
(b) 24
(c) 36
(d) 42

Answer: (c)

12. Find the simple interest (in ₹) on ₹2500 as a sum borrowed at 8% per year rate of interest for 3 years.

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

Answer: (c)

13. In an examination, the average score of a [illegible] was 71.9. If the student would have got 28 more marks in English, 22 more marks in Mathematics, 16 more marks in Computer Science, 14 more marks in History, 10 less marks in Hindi, and retained the same marks in other subjects, then the average score would have been 80.65. How many subjects were there in the examination?

(a) 8
(b) 7
(c) 9
(d) 6

Answer: (a)

14. What is the ratio in which product A, costing ₹70 per 100 grams, should be mixed with product B, costing ₹100 per 100 grams, so that on selling the mixture at ₹1.20 per gram, a profit of 25% is achieved?

(a) 9 : 2
(b) 13 : 2
(c) 2 : 9
(d) 2 : 13

Answer: (d)

15. The average weight of X, Y and Z is 67 kg. The average weight of X and Y is 64 kg and that of Y and Z is 52 kg. The weight of Y (in kg) is:

(a) 31
(b) 33
(c) 30
(d) 28

Answer: (a)

16. If 80 workers took 25 days to finish a task,how many days will it take to finish the same task if 20 more workers join?

(a) 12
(b) 16
(c) 8
(d) 20

Answer: (d)

18. 400 chickooes were bought at ₹1280 per hundred and were sold at a profit of ₹980. Find the selling price (in ₹) per dozen of chickooes.

(a) 193
(b) 173
(c) 183
(d) 198

Answer: (c)

19. The area of a right-angled triangle is 80 m². If perpendicular is equal to 20 m, then find its base.

(a) 4 m
(b) 3 m
(c) 6 m
(d) 8 m

Answer: (d)

20. Mr Rao purchased a laptop for ₹45,000. After a few months, as his office provided another laptop, he sold it at a loss of 12% to Mrs Sharma. After one year, she sold it to an engineering student for a profit of 12%. What is the amount the student had to pay?

(a) ₹45,000
(b) ₹34,848
(c) ₹44,352
(d) ₹56,448

Answer: (c)

Reasoning Ability and Problem Solving

1. In a certain code language, 'ABROAD' is coded as ‘WZLIYZ’ and 'ADVISE' is coded as ‘VHREWZ’. How will 'AGENDA' be coded in the same language?

(a) ZWNVUZ

(b) ZTWMWY

(c) ZWMVTZ

(d) ZTVMWZ

Answer: (c)

2. EBHD is related to IFLH in a certain way based on the English alphabetical order. In the same way, JGMI is related to NKQM. To which of the following is OLRN related, following the same logic?

(a) PSVR

(b) SPVR

(c) PSRV

(d) SPRV

Answer: (b)

3. Six persons – Rahul, Ram, Ranjan, Reena, Rohit and Rupali – are sitting around a circular table facing the centre, but not necessarily in the same order. Rupali is sitting second to the right of Ram, who is Reena’s immediate neighbour. Rohit is not an immediate neighbour of Reena. Rahul is an immediate neighbour of both, Rupali and Ram. Who is sitting second to the left of Ram?

(a) Reena

(b) Rupali

(c) Rahul

(d) Ranjan

Answer: (d)

5. What will come in the place of ‘?’ in the following equation, if ‘+’ and ‘÷ ‘ are interchanged and ‘×’ and ‘−’ are interchanged? 88 ÷ 18 × 28 + 4 − 14 =?

(a) 8

(b) 18

(c) −2

(d) 28

Answer: (a)

6. 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 irons are heaters. Some irons are fans.

Conclusions:
(I) Some heaters are fans.
(II) All fans are irons.

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

Answer: (c)

7. Select the number from among the given options that can replace the question mark (?) in the following series.

2, 3, 6 ,11, 18 ,?

(a) 31
(b) 29
(c) 27
(d) 30

Answer: (c)

8. In a certain code language, 'zebra tool b[illegible]' is [illegible]ed as 'rj pi ki' and 'bean knife army' is coded as 'ko jm pi'. How is 'bean' coded in the given l[illegible]ge?

(a) ko
(b) rj
(c) pi
(d) ki

Answer: (c)

9. Six people A, B, C, D, E and F are sitting around a circular table, facing the centre (but not necessarily in the same order). F is sitting third to the right of C. D is sitting second to the left of F. A and E are immediate neighbours. E is sitting second to the right of B. How many people are sitting between E and C when counted from the left of E?

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

Answer: (a)

10. 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.) 246, 123 448, 224

(a) 624, 312

(b) 102, 226

(c) 325, 96

(d) 444, 66

Answer: (a)

14. What will come in the place of the question mark (?) in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged? 2 ÷ 40 × 5 – 4 + 5 = ?

(a) 11

(b) 31

(c) 13

(d) 15

Answer: (d)

15. In a certain code language, 'BIRD' is coded as '64' and 'DOPE' is coded as '5679'.What is the code for 'D' in the given code language?

(a) 6

(b) 8

(c) 5

(d) 7

Answer: (a)

18. UD 1 is related to OF −6 in a certain way. In the same way, IX 6 is related to CZ −1. To which of the following is MJ 3 related, following the same logic?

(a) GL −4

(b) GM 4

(c) GN −4

(d) GK 4

Answer: (a)

19. 18 is related to 91 following a certain logic. Following the same logic, 27 is related to 136. To which of the following is 45 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) 234
(b) 238
(c) 226
(d) 222

Answer: (c)

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

HXS, JVQ, LTO, NRM, ?

(a) PPM
(b) PNQ
(c) PPK
(d) OPD

Answer: (c)

General Awareness

1. The modern-day _____ was molded [illegible] owned Tanjore Bandhu, consisting of the four Nattuvanars: Ponnayya, Vadivelu, Sivanandam [illegible] Chinnayya.

(a) Mohiniyattam
(b) Bharatanatyam
(c) Kathakali
(d) Kuchipudi

Answer: (b)

2. Who became the first female armless archer to win a medal at the Para World Championship event, 2023?

(a) Seema Devi
(b) Shreya Devi
(c) Shikha Devi
(d) Sheetal Devi

Answer: (d)

3. Which of the following options represents the correct flow of energy in an ecosystem?

(a) Sunlight → Herbivores → Carnivores → Producers

(b) Sunlight → Carnivores → Producers → Herbivores

(c) Sunlight → Producers → Herbivores → Carnivores

(d) Sunlight → Herbivores → Producers → Carnivore

Answer: (c)

5. In 1990, who established Nrityagram, a dance school in Bengaluru?

(a) Madhavi Mudgal

(b) Protima Gauri Bedi

(c) Mukti Mohan

(d) Rekha Raju

Answer: (b)

6. The _____ scheme, that covers artisans related to 18 fields, was included under the 'Payments Infrastructure Development Fund' ('PIDF') scheme by the Reserve Bank of India in October 2023.

(a) PM USHA

(b) PM Ullas

(c) PM Vishwakarma

(d) PM Swanidhi

Answer: (c)

7. Who among the following formed an organisation to support widow remarriage in Madras Presidency?

(a) V Chidambaram Pillai

(b) Ishwar Chandra Vidyasagar

(c) C Rajagopalachari

(d) Veereshlingam Pantulu

Answer: (d)

8. Which of the following Articles entails “Equality of opportunity in matters of public employment”?

(a) Article 15

(b) Article 17

(c) Article 14

(d) Article 16

Answer: (d)

9. Sawai Gandharva was associated with which of the following gharanas?

(a) Kirana gharana

(b) Benaras gharana

(c) Agra gharana

(d) Indore gharana

Answer: (a)

10. The partition of _____was annulled in 1911.
    (a) Burma
    (b) Punjab
    (c) United Provinces
    (d) Bengal
    Answer: (d)

12. Which state in India has the largest scheduled tribe population as per the 2011 Census?
    (a) Odisha
    (b) Madhya Pradesh
    (c) Jharkhand
    (d) Chhattisgarh
    Answer: (b)

13. In which state is the Rewa Ultra Mega Solar Power Project located?
    (a) Madhya Pradesh
    (b) Rajasthan
    (c) Tamil Nadu
    (d) Karnataka
    Answer: (a)

14. As per Census 2011, which of the following is the most populated city in India?
    (a) Mumbai
    (b) Chennai
    (c) Kolkata
    (d) Delhi
    Answer: (a)

15. In the State Legislature, _____ is subject to dissolution.
    (a) Council of States
    (b) Legislative Assembly
    (c) Legislative Council
    (d) House of People
    Answer: (b)

16. What is the chemical name for the compound responsible for the cooling sensation in mint leaves?
    (a) Ethanol
    (b) Menthol
    (c) Caffeine
    (d) Capsaicin
    Answer: (b)

18. To control the prices, which of the following Sultans of Delhi set up three different markets for different commodities in Delhi?

(a) Alauddin Khalji
(b) Muhammad bin Tughlaq
(c) Ghiyasuddin Balban
(d) Shamsuddin Iltutmish

Answer: (a)

19. The second largest dome in the world was built in India and is still standing strong. Which dome is being spoken about here?

(a) GlampEco
(b) Teela
(c) Gol Gumbaz
(d) Calico Dome

Answer: (c)

20. For which of the following minerals are Jharia and Raniganj known?

(a) Marble
(b) Coal
(c) Copper
(d) Gold

Answer: (b)

22. What was the name of the official torch for the [illegible]lo India University Games 2022?

(a) Ujala
(b) Mitra
(c) Samarth
(d) Shakti

Answer: (d)

23. In March 2023, who was appointed as Chairperson of Pension Fund Regulatory Development Authority (PFRDA)?

(a) Subodh Jaiswal
(b) Suresh N Patel
(c) Tushar Mehta
(d) Deepak Mohanty

Answer: (d)

24. Losar festival is celebrated in which of the following states?

(a) Chhattisgarh
(b) Andhra Pradesh
(c) Goa
(d) Arunachal Pradesh

Answer: (d)

25. The percentage of pore space between the particles inside a rock or soil is called:

(a) Porosity
(b) Density
(c) Salinity
(d) Permeability

Answer: (a)

English Language and Comprehension

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

A good lawyer / always looks in the / case before he / attends court.

(a) attends court
(b) always looks in the
(c) case before he
(d) A good lawyer

Answer: (b)

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

On the back foot

(a) In a relaxed state
(b) Situated farther away
(c) At a disadvantage
(d) In a hurry

Answer: (c)

3. Select the option that will improve the underlined part of the given sentence.

According to Greek mythology, Sipylus is holier city of Lydia.

(a) the holiest
(b) most holiest
(c) the holier
(d) most holy

Answer: (a)

4. Parts of the following sentence have been given as options. Select the option that contains an error.

Before the internet was available on mobile, I read often books for entertainment and information.

(a) for entertainment and information.
(b) was available on mobile
(c) Before the internet
(d) I read often books

Answer: (d)

5. Select the most appropriate synonym of the given word. Gloomy

(a) Sticky
(b) Vain
(c) Dismal
(d) Buoyant

Answer: (c)

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

They decided to /start their journey / towards the hills / in midnight.

(a) They decided to
(b) start their journey
(c) in midnight
(d) towards the hills

Answer: (c)

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

Predicament

(a) Solution
(b) Docile
(c) Mess
(d) Redeem

Answer: (a)

8. Select the most appropriate superlative adjective form to fill in the blanks.

What's ___ book you've ever read?

(a) interesting
(b) the most interesting
(c) more interesting
(d) the interesting

Answer: (b)

9. Select the most appropriate present tense form of the verb to fill in the blank.

_____ they like sweets?

(a) Do
(b) Had
(c) Has
(d) Does

Answer: (a)

10. Select the correctly spelt word to fill in the blank.

We _____ to follow the traffic rules.

(a) aut
(b) aught
(c) ought
(d) oght

Answer: (c)

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

Obsequious

(a) Ordained
(b) Obliterate
(c) Ostracised
(d) Obstinate

Answer: (d)

12. Select the most appropriate meaning of the underlined word. The sink is clogged due to solid materials.

(a) A pipeline for water supply
(b) A container which holds water
(c) A large fixed container to wash hands or uten
(d) To drown in water

Answer: (c)

13. Select the correctly spelt word to fill in the blank meaningfully..

The _____ on the wall was beautifully painted.

(a) pictur
(b) picture
(c) picter
(d) pickchure

Answer: (b)

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

Despite his initial _____, he eventually agreed to join the team.

(a) enthusiasm
(b) reluctance
(c) determination
(d) compassion

Answer: (b)

15. Select the most appropriate option to fill in the blank. Industrialisation gives even the least talented person a chance to _____ his livelihood.

(a) Live
(b) Give
(c) Earn
(d) Break

Answer: (c)

17. Select the most appropriate option to fill in the blank. The investigating team smelled a _____ in the suspect's defence.

(a) cat
(b) bat
(c) dog
(d) rat

Answer: (d)

18. Select the INCORRECTLY spelt word.

(a) Synchronous
(b) Inadvertant
(c) Effeminate
(d) Blatant

Answer: (b)

20. Select the INCORRECTLY spelt word.

(a) Awful
(b) Awsome
(c) Bitter
(d) Barren

Answer: (b)

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.
>
> Opera refers (1)_____ a dramatic art form, originating in Europe, in which the emotional content (2)_____ conveyed to the audience as much through music, both vocal and instrumental, as it is through the lyrics. (3)_____contrast, in musical theatre an actor's dramatic performance is primary, and the music (4)_____ a lesser role. The drama in opera is (5)_____ using the primary elements of theatre such as scenery, costumes and acting.

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

(a) on
(b) for
(c) to
(d) with

Answer: (c)

22. Select the most appropriate option to fill in blank no. 2.
    (a) is
    (b) were
    (c) are being
    (d) are
    Answer: (a)

23. Select the most appropriate option to fill in blank no. 3.
    (a) For
    (b) In
    (c) Under
    (d) Beside
    Answer: (b)

24. Select the most appropriate option to fill in blank no. 4.
    (a) plays
    (b) playing
    (c) play
    (d) played
    Answer: (a)

25. Select the most appropriate option to fill in blank no. 5.
    (a) presenting
    (b) presented
    (c) being present
    (d) present
    Answer: (b)

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	**(a)**	2	**(d)**	4	**(b)**	6	**(d)**	7	**(c)**	8	**(c)**
9	**(c)**	11	**(c)**	12	**(c)**	13	**(a)**	14	**(d)**	15	**(a)**
16	**(d)**	18	**(c)**	19	**(d)**	20	**(c)**				

Reasoning Ability and Problem Solving

1	**(c)**	2	**(b)**	3	**(d)**	5	**(a)**	6	**(c)**	7	**(c)**
8	**(c)**	9	**(a)**	10	**(a)**	14	**(d)**	15	**(a)**	18	**(a)**
19	**(c)**	20	**(c)**								

General Awareness

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

English Language and Comprehension

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