PREVIOUS YEAR PAPER

SSC MTS 2021 — 7 July 2022, Shift 2

SSC MTS & Havaldar · 7 July 2022 · 1:00 PM - 2:30 PM

94 of the paper's 100 questions · marks per question not printed on the response sheet

Left out of the original paper: 6 (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 7 July 2022, 1:00 PM - 2:30 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-2021-7-jul-shift-2/

General English

1. Parts of the following sentence have been given as options. 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.

At seven began the education that was to making the young boy a citizen and a soldier.

(a) No error
(b) At seven began the education
(c) boy a citizen and a soldier
(d) that was to making the young

Answer: (d)

2. Select the most appropriate ANTONYM of the gi word.

Steady

(a) Tabular
(b) Shaky
(c) Dedicate
(d) Constant

Answer: (b)

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

He admonished his listeners _____ their wicked ways.

(a) changes
(b) changed
(c) to change
(d) change

Answer: (c)

4. Select the most appropriate meaning of the underlined idiom in the given sentence.

I want you to give me this contract in black and white.

(a) in writing
(b) quickly
(c) in the morning
(d) at night

Answer: (a)

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

I am not going to buy _____ toys for you.

(a) them
(b) these
(c) they
(d) this

Answer: (b)

6. Select the correctly spelt word.

(a) Suddenly
(b) Sudenly
(c) Sudenlly
(d) Suddenlly

Answer: (a)

7. Select the INCORRECTLY spelt word.

(a) Nascent
(b) Malleable
(c) Dissiminate
(d) Obsequious

Answer: (c)

8. Select the most appropriate word for the given group of words.

A cage for small animals

(a) Cave
(b) Hutch
(c) Shed
(d) Hut

Answer: (b)

9. Select the option that will improve the underlined part of the sentence. In case no improvement is needed, select 'No improvement required'.

Getting a good night's sleep has a positively effect on our wellbeing.

(a) have a positively affect
(b) has a positive effect
(c) No improvement required
(d) has a positive affects

Answer: (b)

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

My sister treats me well in the morning but at night she becomes _____.

(a) eloquent
(b) awful
(c) exemplary
(d) acceptable

Answer: (b)

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

Gloomy

(a) Depressing
(b) Comfortable
(c) Bright
(d) Intrepid

Answer: (a)

12. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

Many an old story were retold, and ancient conundrum repeated.

(a) Many an old story was retold
(b) Many old story were retold
(c) Many an old stories were retold
(d) No improvement required

Answer: (a)

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

Long in the tooth

(a) Too uncomfortable for words
(b) Too old to do something
(c) Too wise for people
(d) Extremely dangerous

Answer: (b)

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

One who is not sure about God's existence

(a) Agnostic
(b) Anchor
(c) Pantheist
(d) Haggard

Answer: (a)

15. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.

Scientific discoveries is often result of hard work by many people.

(a) No improvement required
(b) is often resulting
(c) are often resulted
(d) are often the result

Answer: (d)

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

The US has become far more _____ to people with all kinds of food sensitivities and diet regimens.

(a) deviated
(b) lodging
(c) selective
(d) accommodating

Answer: (d)

17. 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.

Frank has being making / the rounds, advancing a theory / that I believe is not without merit.

(a) the rounds, advancing a theory
(b) No error
(c) Frank has being making
(d) that I believe is not without merit

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.

Whatever a writer puts / into a story probably comes with / his own life experience.

(a) with his own life experience
(b) No error
(c) into a story probably comes
(d) Whatever a writer puts

Answer: (a)

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

He was critically injured in the accident.

(a) Favourably
(b) severely
(c) trivially
(d) Confidently

Answer: (b)

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

All of my efforts to save her life have gone in _____.

(a) vain
(b) vein
(c) van
(d) vane

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.
>
> In its 47 years of history, ISRO (1) _____ breakthrough work in the field of technology and even (2) _____ many vehicles into space. (3) _____ the last 47 years, ISRO has improvised and developed technology, launching (4) _____ indigenously created vehicles into space (5) _____ form a part of the Indian space journey.

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

(a) done
(b) do
(c) has done
(d) does

Answer: (c)

22. Select the most appropriate option to fill in blank number 2.
    (a) blocked
    (b) stocked
    (c) launched
    (d) shared
    Answer: (c)

23. Select the most appropriate option to fill in blank number 3.
    (a) Across
    (b) Over
    (c) Along
    (d) Among
    Answer: (b)

24. Select the most appropriate option to fill in blank number 4.
    (a) much
    (b) lots
    (c) very
    (d) several
    Answer: (d)

25. Select the most appropriate option to fill in blank number 5.
    (a) when
    (b) that
    (c) how
    (d) who
    Answer: (b)

General Intelligence and Reasoning

1.
Select the correct mirror image of the given figure when the mirror is placed at the right side.



(a)



(b)



(c)



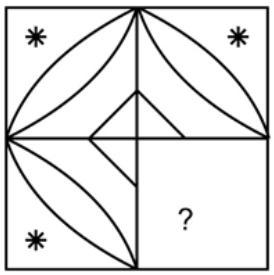
(d)



Answer: (c)

2.

Select the figure from the options that can replace the question mark (?) and complete the given pattern (rotation is NOT allowed).



(a)



(b)



(c)



(d)



Answer: (d)

3. 6 girls J, K, L, A, B and C are sitting around a square table facing the centre (not necessarily in the same order). 4 girls are sitting in the corners and 2 girls are sitting one each in the middle of two opposite sides of the square. L and C are sitting opposite each other. L is the immediate neighbour of A and B. C is not sitting on the corner. Who are the immediate neighbours of C?

(a) K and B

(b) K and A

(c) J and K

(d) J and B

Answer: (c)

4. In a certain code language, 'TOIR' is coded as '62', and 'HATE' is coded as '34'. How will 'GAYL' be coded in that language?

(a) 43

(b) 46

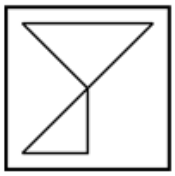
(c) 45

(d) 44

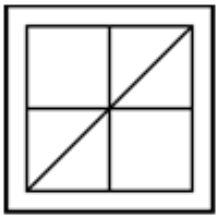
Answer: (c)

5.

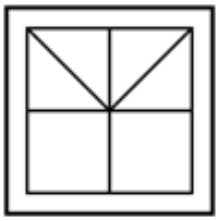
Select the option in which the given figure is embedded (rotation is NOT allowed).



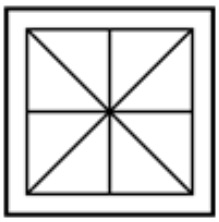
(a)



(b)



(c)



(d)



Answer: (c)

6. Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements: All Books are Pens. All Pens are Pencils.

Conclusions:
I. All Books are Pencils.
II. All Pencils are Books.

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

Answer: (c)

7. 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.

Statement I: Some teeth are noses and some noses are hands. Statement II: Some hands are feet.

Conclusion I: Some teeth are feet. Conclusion II: All hands are noses.

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

Answer: (d)

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

1703, 1668, 1633, 1598, 1563, ?

(a) 1526
(b) 1533
(c) 1528
(d) 1530

Answer: (c)

9. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.

LAS, IYR, FWQ, CUP, ?

(a) ZSO
(b) ZSQ
(c) ZRP
(d) YSO

Answer: (a)

10. In a certain code language, 'This is my brother' is written as 'Bo UvZs Mn', 'That is my dog' is written as 'Zs Pt Uv Ga', 'This is your father' is written as 'Bo Uv Ex Yz'. How will 'brother' be written in that language?

(a) Zs
(b) Uv
(c) Bo
(d) Mn

Answer: (d)

11. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(15, 135, 6)(12, 84, 5)

(a) (21, 315, 6)
(b) (9, 89, 3)
(c) (24, 145, 18)
(d) (17, 165, 7)

Answer: (a)

12. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

ACT : KCD :: EAR : OAB :: EYE : ?

(a) OZO
(b) OYE
(c) OYN
(d) OYO

Answer: (d)

13. In a certain code language, 'mould soft gel' is written as '8 6 4', 'gel is not hard' is written as 'pr kc 8 3' and 'hard is grey mould' is written as 'kc 3 4 9'. How will 'grey soft' be written in that language?

(a) 9 6
(b) 9 4
(c) lm 6
(d) lm 4

Answer: (a)

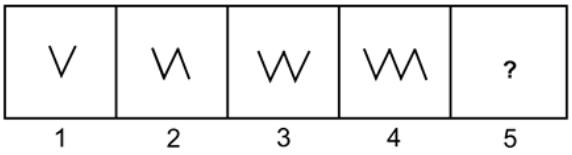
14. In a certain code language, if wall is called door, door is called window, window is called roof, roof is called ventilator and ventilator is called floor, then what makes a way to a room?

(a) window
(b) ventilator
(c) roof
(d) floor

Answer: (a)

15.

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



(a)



(b)



(c)



(d)



Answer: (b)

16. No two of the six friends U, V, W, X, Y and Z, are of the same height. V is taller than only three other friends. Z is only taller than X. W is shorter than U only. Find who is the third shortest among all the friends.

(a) U

(b) Z

(c) Y

(d) V

Answer: (c)

17. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

GROW : ITQY :: MATE : ?

(a) OCVH
(b) OCVG
(c) OCUG
(d) OBVG

Answer: (b)

18. Select the option that is related to the fifth number in the same way as the second number is related to the first number and the fourth number is related to the third number.

15 : 36 :: 25 : 56 :: 35 : ?

(a) 86
(b) 76
(c) 96
(d) 66

Answer: (b)

19. Which two numbers (not digits) need to be interchanged to make the given equation correct?

10 × 18 + 216 ÷ 5 – 41 = 21

(a) 216 and 18
(b) 10 and 41
(c) 5 and 10
(d) 18 and 5

Answer: (d)

20. What will come in the place of '?' in the following equation, if '+' and ' – ' are interchanged and also '×' and '÷' are interchanged?

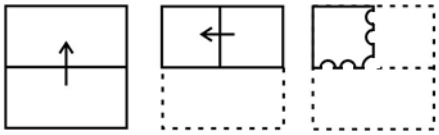
20 × 5 – 10 + 5 ÷ 2 = ?

(a) 6
(b) 2
(c) 4
(d) 8

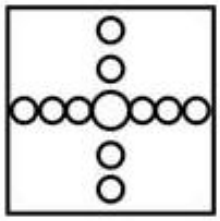
Answer: (c)

21.

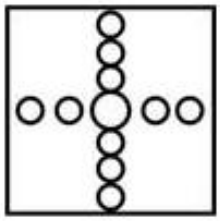
The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



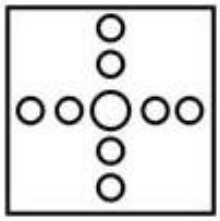
(a)



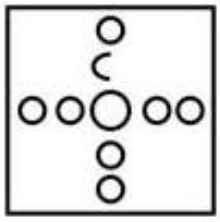
(b)



(c)



(d)



Answer: (c)

22. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.

MARS : NLBZSQTR :: PLUTO : QOMKVTUSPN :: EARTH : ?

(a) FDBZSQUSIG

(b) QUIESEDILA

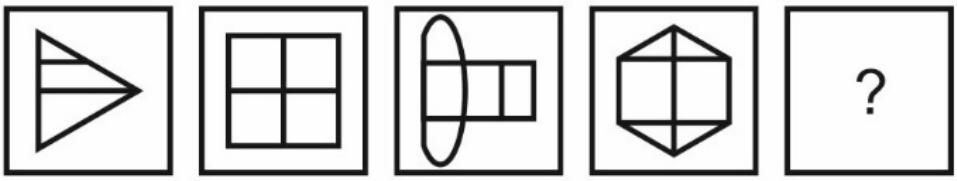
(c) FDZBQSSUIG

(d) QOSFDDIUAS

Answer: (a)

23.

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



(a)



(b)



(c)



(d)



Answer: (b)

24. Six people Sumit, Aamish, Saif, Ashutosh, Anubhav and Piyush are sitting in a straight row facing North. Only one person was sitting left to Piyush. Aamish is not sitting in either corner. Anubhav is sitting immediate left to Saif. Only one person is sitting in between Piyush and Ashutosh. Who is sitting to the immediate left of Ashutosh?

(a) Saif

(b) Sumit

(c) Aamish

(d) Anubhav

Answer: (c)

25. Which number will replace the question mark (?) in the following series?

819, 829, 840, 852, ?

(a) 864

(b) 858

(c) 880

(d) 865

Answer: (d)

Numerical Aptitude

1.

If $a : b : c = 3 : 2 : 4$ and $b:d = 2 : 3$, then find the value of $(\frac{a+c+d}{c-b})^3$.

(a)
729/8

(b)
216

(c)
125

(d)
1000/27

Answer: (c)

2.

Sai can do a piece of work alone in 50 days. Ria is 25% more efficient than Sai. What is the number of days that Ria will take to do the same piece of work alone?

(a)

30 days

(b)

60 days

(c)

40 days

(d)

56 days

Answer: (c)

3.

If 30% of a number is 15 more than 135, find 50% of that number.

(a)

200

(b)

210

(c)

230

(d)

250

Answer: (d)

4.

If the cost price of an item is ₹2,000 and it is sold at a loss of 25%, then find its selling price.

(a)

₹1,500

(b)

₹1,000

(c)

₹2,000

(d)

₹3,500

Answer: (a)

5.

The sum of the radius and the diameter of a solid sphere is 63 cm. What will be the volume of this sphere? [Use $\pi = \frac{22}{7}$]

(a)

$38808\ cm^3$

(b)

$39206\ cm^3$

(c)

$34604\ cm^3$

(d)

$41244\ cm^3$

Answer: (a)

6.

A person marks the price of his car 50% above the cost price. He gives a discount of B% and earns a profit of 10%. What is the approximate value of B?

(a)

26.67

(b)

29.67

(c)

21.33

(d)

24.33

Answer: (a)

7.

The difference between the average of P and Q and the average of Q and R is 25. What will be the difference between P and R?

(a)

12.5

(b)

50

(c)

40

(d)

25

Answer: (b)

11.

In a job, L_1, L_2, and L_3 work for 3, 4 and 6 days, respectively. The ratio of the daily wages of L_1, L_2, and L_3 is 2 : 3 : 1, respectively. If they receive ₹2,400 as the total wages, then what is the share of L_1?

(a)
₹800

(b)
₹1,600

(c)
₹600

(d)
₹1,200

Answer: (c)

12.

Simplify the following expression.

$20 + 3 - 2 + (4 - 1)$

(a)
-120

(b)
24

(c)
120

(d)
21

Answer: (b)

13.

The ratio of the speed of a bus to that of a train is 15 : 27. Also, a car covers a distance of 720 km in 9 hours. The speed of the bus is three-fourths of the speed of the car. How much distance will the train cover in 7 hours?

(a)
760 km

(b)
756 km

(c)
784 km

(d)
770 km

Answer: (b)

14.

Study the given table and answer the question that follows.

The table shows the marks scored by five students in a surprise test.

Name of student	Marks scored in surprise test
Himanshu	7
Ayushi	4
Yograj	2
Shabbir	5
Mili	10

If a student has to score 5 or more marks to pass the surprise test, then how many friends were NOT able to pass?

(a)

4

(b)

2

(c)

1

(d)

3

Answer: (b)

15.

The average of 47 consecutive natural numbers is 99. What is the largest number among these numbers?

(a)

122

(b)

123

(c)

121

(d)

124

Answer: (a)

17.

The value of $26.4 \times 12.5 + \sqrt{22^2 + 20 + 11^2} - 31$ is:

(a)

384

(b)

284

(c)

18

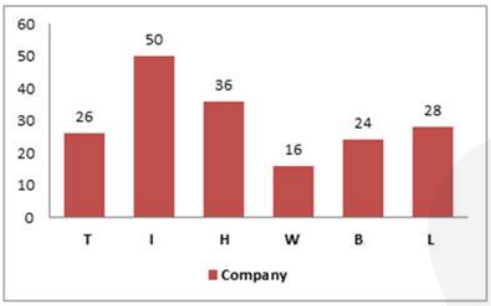
(d)

324

Answer: (d)

19.

Study the given bar-graph and answer the question that follows.
The bar-graph shows the number of students from a college who got placed in six companies in 2020.



If 60 students from the college did not get a job in any of the ...ies, then what percentage of the students from this college were placed in H in 2020?

(a)

20%

(b)

12.5%

(c)

22%

(d)

15%

Answer: (d)

20.

A sum of ₹15,250 is divided among Shrinza, Sheetal and Chirag such that Shrinza receives 40% more than Sheetal and Sheetal receives 40% less than Chirag. What is Chirag's share?

(a)

₹6,000

(b)

₹6,250

(c)

₹7,250

(d)

₹5,250

Answer: (b)

21.

The ratio between the volumes of Sphere 1 and Sphere 2 is 27 : 64. Find the ratio of the surface areas of Sphere 1 and Sphere 2.

(a)

9 : 16

(b)

16 : 9

(c)

3 : 4

(d)

1 : 3

Answer: (a)

22.

The product of the LCM and the HCF of two numbers is 216. The difference between the two numbers is 6. What are the numbers?

(a)

9, 24

(b)

6, 36

(c)

12, 18

(d)

8, 27

Answer: (c)

23.

X and Y are two alloys of copper and aluminium prepared by mixing the metals in the ratio 6 : 5 and 5 : 9, respectively. If equal quantities of the alloys are melted to form a third alloy Z, what ratio of copper and aluminium will be in Z?

(a)

154 : 163

(b)

165 : 139

(c)

139 : 154

(d)

139 : 169

Answer: (d)

24.

The height of a right circular cone is 24 cm. If the radius of its base is 7 cm, then what will be the curved surface area of this cone? [Use $\pi = \frac{22}{7}$]

(a)

550 cm^2

(b)

630 cm^2

(c)

610 cm^2

(d)

590 cm^2

Answer: (a)

25.

The ratio of the speeds of two scooters is 9 : 5. If the second scooter runs 75 km in 6 hours, then what is the speed (in km/h) of the first scooter?

(a)

12.5

(b)

22.5

(c)

11.5

(d)

10.5

Answer: (b)

General Awareness

2. What is the chemical name of battery acid?

(a) Sulfuric acid
(b) Barium sulphate
(c) Hypochlorous acid
(d) Boric acid

Answer: (a)

3. Who took oath as Chief Minister of Uttar Pradesh for the second consecutive term in March 2022?

(a) Harish Rawat
(b) Yogi Adityanath
(c) Akhilesh Yadav
(d) Mohan Prakash

Answer: (b)

4. Harishena was a court poet of _____.

(a) Bindusara
(b) Samudragupta
(c) Bimbisara
(d) Ashoka

Answer: (b)

5. Which of the following separates Little Andaman from South Andaman of India?

(a) Amindivi Islands
(b) Duncan passage
(c) Reunion Hotspot
(d) Minicoy island

Answer: (b)

6. Amit wants to contest for Lok Sabha elections in India. What is the maximum limit of constituencies that he can contest?

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

Answer: (b)

7. Which of the following Articles of the Indian Constitution states about the application of the Directive Principles?

(a) 37
(b) 45
(c) 42
(d) 31

Answer: (a)

8. Which of the following is the largest stupa in India?

(a) Kesariya
(b) Dhamekh
(c) Amaravati
(d) Bharhut

Answer: (a)

9. Which of the following political parties led the Punjabi Suba movement in India?

(a) Bharatiya Janata Party
(b) Ghadar Party
(c) Shiromani Akali Dal
(d) Indian National Congress

Answer: (c)

10. Which player won the Man of the Series award fo[illegible]icket test series on the Sri Lanka tour of India, 2022?

(a) KL Rahul
(b) Rishabh Pant
(c) Shreyas Iyer
(d) Rohit Sharma

Answer: (b)

11. With which musical instrument was Ali Akbar Khan associated?

(a) Sarangi
(b) Manjira
(c) Sarod
(d) Veena

Answer: (c)

12. Which of the following acids is found in spinach?

(a) Formic acid
(b) Lactic acid
(c) Citric acid
(d) Oxalic acid

Answer: (d)

13. Who among the following is the first Odissi dancer from Odisha to have received the 'Padma Vibhushan' in the year 2000?

(a) Rukmini Devi Arundale
(b) Kelucharan Mohapatra
(c) Uday Shankar
(d) Ileana Citaristi

Answer: (b)

14. As of March 2022, which of the following is the highest motorable pass in India?

(a) Umling La
(b) Chang-La
(c) Lanak La
(d) Khardung La

Answer: (d)

15. The Constitution (Scheduled Tribes) Order (Amendment) Bill, 2022, was introduced in Lok Sabha on 7 February 2022 by _____.

(a) Arjun Munda
(b) Ramesh Bidhuri
(c) Amit Shah
(d) Rajnath Singh

Answer: (a)

16. Which of the given statements is correct?
I. When Alivardi Khan died in 1756, Siraj-ud-daulah became the nawab of Bengal.
II. In 1757, Robert Clive led the company's army against Siraj-ud-daulah at Plassey.

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

Answer: (d)

17. Before being replaced by NITI Aayog, which organisation was responsible for collecting data about unemployment using Lakdawala Formula?

(a) Pay Commission
(b) Finance Commission
(c) Labour Commission
(d) Planning Commission

Answer: (d)

18. Hojagiri is a folk dance of which state of India?
    (a) Goa
    (b) Karnataka
    (c) Tripura
    (d) Uttar Pradesh
    Answer: (c)

19. The headquarters of the Eastern Railway Zone is located at _____.
    (a) Kolkata
    (b) Bhubaneswar
    (c) Patna
    (d) Durgapur
    Answer: (a)

20. According to the 2011 Census of India, which state is the least populous state in the country?
    (a) Jharkhand
    (b) Sikkim
    (c) Assam
    (d) Bihar
    Answer: (b)

21. Mahavir Jayanti is celebrated in the month of ____ __.
    (a) May
    (b) April
    (c) September
    (d) December
    Answer: (b)

22. Which of the following is an Indian martial art that originated in modern-day Kerala?
    (a) Kalaripayattu
    (b) Muay Thai
    (c) Karate
    (d) Gatka
    Answer: (a)

23. Raziya Sultan was the daughter of _____.
    (a) Babur
    (b) Qutubuddin Aibak
    (c) Iltutmish
    (d) Akbar
    Answer: (c)

24. _____ was established in 1948 with 23 countries as a global trade organisation to administer all multilateral trade agreements.

(a) World Trade Organization

(b) International Reciprocal Trade Association

(c) General Agreement on Tariffs and Trade

(d) World Chamber of Commerce

Answer: (c)

25. _____ is a technique in which cancer cells are damaged with radiations, while limiting the harm to nearby healthy tissue.

(a) Radiotherapy

(b) Physiotherapy

(c) Surgery

(d) Chemotherapy

Answer: (a)

Answer key

Answer key as marked in the Staff Selection Commission's response sheet. "—" means the sheet did not show it clearly.

General English

1	**(d)**	2	**(b)**	3	**(c)**	4	**(a)**	5	**(b)**	6	**(a)**	7	**(c)**	8	**(b)**	9	**(b)**	10	**(b)**
11	**(a)**	12	**(a)**	13	**(b)**	14	**(a)**	15	**(d)**	16	**(d)**	17	**(c)**	18	**(a)**	19	**(b)**	20	**(a)**
21	**(c)**	22	**(c)**	23	**(b)**	24	**(d)**	25	**(b)**										

General Intelligence and Reasoning

1	**(c)**	2	**(d)**	3	**(c)**	4	**(c)**	5	**(c)**	6	**(c)**	7	**(d)**	8	**(c)**	9	**(a)**	10	**(d)**
11	**(a)**	12	**(d)**	13	**(a)**	14	**(a)**	15	**(b)**	16	**(c)**	17	**(b)**	18	**(b)**	19	**(d)**	20	**(c)**
21	**(c)**	22	**(a)**	23	**(b)**	24	**(c)**	25	**(d)**										

Numerical Aptitude

1	**(c)**	2	**(c)**	3	**(d)**	4	**(a)**	5	**(a)**	6	**(a)**	7	**(b)**	11	**(c)**	12	**(b)**	13	**(b)**
14	**(b)**	15	**(a)**	17	**(d)**	19	**(d)**	20	**(b)**	21	**(a)**	22	**(c)**	23	**(d)**	24	**(a)**	25	**(b)**

General Awareness

2	**(a)**	3	**(b)**	4	**(b)**	5	**(b)**	[illegible]	**(b)**	7	**(a)**	8	**(a)**	9	**(c)**	10	**(b)**	11	**(c)**
12	**(d)**	13	[illegible]	[illegible]	**(d)**	15	**(a)**	16	**(d)**	17	**(d)**	18	**(c)**	19	**(a)**	20	**(b)**	21	**(b)**
22	**(a)**	23	**(c)**	24	**(c)**	25	**(a)**												