PREVIOUS YEAR PAPER

SSC MTS 2021 — 5 July 2022, Shift 1

SSC MTS & Havaldar · 5 July 2022 · 9:00 AM - 10:30 AM

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

Left out of the original paper: 14 (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 July 2022, 9:00 AM - 10:30 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-2021-5-jul-shift-1/

General English

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

One’s cup of tea

(a) One’s perception about someone
(b) One’s general principle
(c) One’s hard-earned money
(d) One's chosen or preferred thing

Answer: (d)

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

It is irrelevance, at least to me, whether the grant w (improvident) or no.

(a) tardy
(b) thrifty
(c) cautious
(d) hungry

Answer: (b)

3. 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.

When you are under significant stress, it is hardly to process details and nuances.

(a) significant stress, it is hardly
(b) to process details and nuances
(c) When you are under
(d) No error

Answer: (a)

4. 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.

The reduced air pressure on airline flights can lessen the amount of oxygen in passengers' blood for twenty-five percent.

(a) The reduced air pressure on airline flights
(b) No error
(c) in passengers' blood for twenty-five percent
(d) can lessen the amount of oxygen

Answer: (c)

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

My teacher asked me to keep _____.

(a) quiet
(b) quite
(c) quit
(d) quaint

Answer: (a)

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

Perilous

(a) Verbose
(b) Unstable
(c) cruel
(d) Safe

Answer: (d)

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

He claims to be the _____ kid in the school.

(a) smartness
(b) smartest
(c) smarting
(d) smarter

Answer: (b)

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

Many families are so poor to bear the cost of educating all their children.

(a) No improvement required
(b) too poor
(c) to poor
(d) such poor

Answer: (b)

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

A book that contains information on various subjects

(a) Encyclopaedia
(b) Manuscript
(c) Thesaurus
(d) Dictionary

Answer: (a)

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

The more enlightened employers offer better terms.

(a) Civilised
(b) Educated
(c) Confounded
(d) Reasonable

Answer: (c)

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

Hasty

(a) Expeditious
(b) Restricted
(c) Laidback
(d) Locked

Answer: (a)

14. Select the INCORRECTLY spelt word.

(a) Perterb
(b) Perceive
(c) Pigeon
(d) Passive

Answer: (a)

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

Chew the scenery

(a) To understate
(b) To act overly emotional
(c) To beautify
(d) To mismanage

Answer: (b)

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

Banning food and beverages is not desirable nor feasible in a civilized society.

(a) neither
(b) No improvement required
(c) none
(d) nor

Answer: (a)

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

Scientists believe / that many animals have / a unique languages / of their own.

(a) that many animals have
(b) Scientists believe
(c) a unique languages
(d) of their own

Answer: (c)

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

The plan is to demolish the kitchen area and build a new room.

(a) curtail
(b) forge
(c) raze
(d) refurbish

Answer: (c)

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

A thing or substance that is liable to catch fire easily

(a) Inaudible
(b) Inflammable
(c) Incombustible
(d) Extinguishable

Answer: (b)

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

A group of guns or missile launchers operated together at one place

(a) Psaltery
(b) Skittery
(c) Cemetery
(d) Battery

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.
>
> Deforestation in tropical regions can (1) _____ the way water vapour is produced over the canopy, (2) _____ causes reduced rainfall. A 2019 study published in the journal Ecohydrology showed that parts of the Amazon rainforest that (3) _____ converted to agricultural land (4) _____ higher soil and air temperatures, which could (5) _____ drought conditions.

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

(a) hold
(b) attack
(c) affect
(d) effect

Answer: (c)

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

(a) whom
(b) which
(c) where
(d) who

Answer: (b)

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

(a) is
(b) were
(c) was
(d) has

Answer: (b)

24. Select the most appropriate option to fill in blank number 4.

(a) had
(b) did
(c) was
(d) has

Answer: (a)

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

(a) purify
(b) inflame
(c) provoke
(d) aggravate

Answer: (d)

General Intelligence and Reasoning

1. 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:
I. Some X are M.
II. All W are X. Conclusions: I. Some M are not W. II. No W is M.
III. Some M are not X.

(a) None of the conclusions follow
(b) Only conclusion III follows
(c) Only conclusions II and III follow
(d) All the conclusions follow

Answer: (a)

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: All sweets are food. All food are healthy.

Conclusions: I) All sweets are healthy. II) Some healthy are sweets.

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

Answer: (a)

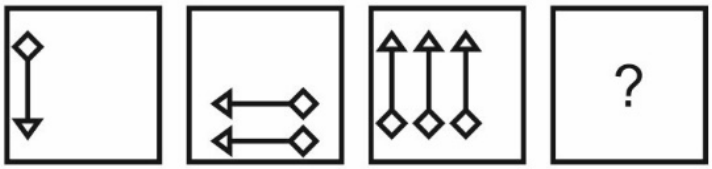
3. In a certain code language, 'RESTRICT' is written as 'CTRISTRE', 'STARTING' is written as 'NGTIARST' and 'MOUNTAIN' is written as 'INTAUNMO'. What is the code for the word 'ENVELOPE' in that code language?

(a) ELOOEENP
(b) PELOVEEN
(c) PEELOVEN
(d) EPOLEVNE

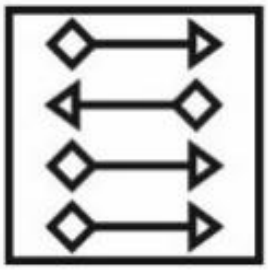
Answer: (b)

4.

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



(a)



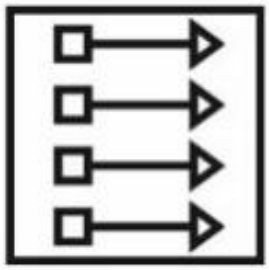
(b)



(c)



(d)



Answer: (c)

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

I4D : G9F :: L16S : J25U :: W64R : ?

(a) T81U

(b) U81T

(c) U49T

(d) S49T

Answer: (b)

6.

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



(a)



(b)



(c)



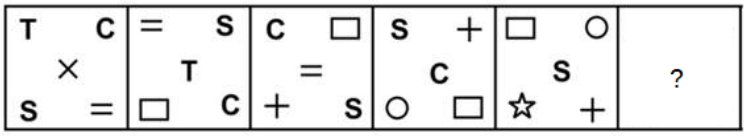
(d)



Answer: (c)

7.

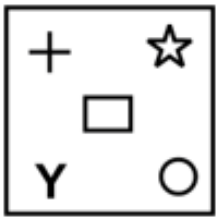
Select the figure from among the given options that can replace the question mark (?) in the following series.



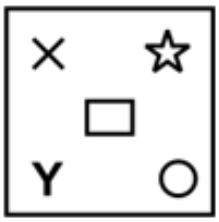
(a)



(b)



(c)



(d)



Answer: (b)

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

144 : 225 :: 169 : 256 :: ? : 361

(a) 196

(b) 324

(c) 256

(d) 144

Answer: (c)

9. 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.

PG : VM :: AB : ?

(a) FH

(b) GH

(c) HI

(d) FG

Answer: (b)

10. In a certain code language, 'FAINT' is coded as '2014916', and 'GRME' is coded as '513187'. How will 'POIL' be coded in that language?

(a) 1295116

(b) 1291516

(c) 1219516

(d) 1291561

Answer: (b)

11. By interchanging the given two numbers (not digits), which of the following equations will be correct? 44 and 19
I. 203 + 44 – 27 × 19 ÷ 11 = 114
II. 9 × 572 ÷ 19 – 44 + 4 = 120

(a) Neither I nor II

(b) Only I

(c) Only II

(d) Both I and II

Answer: (b)

12. Four males P1, P2, P3 and P4 are sitting in a row facing towards the North (not necessarily in the same order) and four females A1, A2, A3 and A4 are sitting in a row facing towards the face of these males (not necessarily in the same order). P1 and P4 sit at the ends. A3 and P2 are facing each other. A4 is second to the left of A3. P4 is facing A1. A1 and A4 are at the ends. Which of the following statements is correct?
I. A4 is facing P1.
II. P4 is second to the left of that male who is facing A2.

(a) Only II

(b) Neither I nor II

(c) Only I

(d) Both I and II

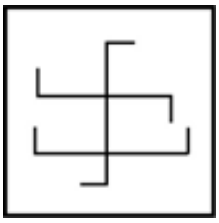
Answer: (d)

13.

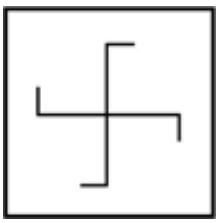
Select the option in which the given figure is embedded (rotation is NOT allowed).



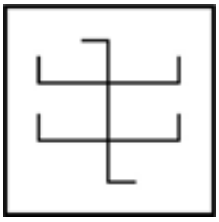
(a)



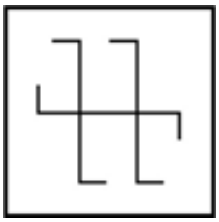
(b)



(c)



(d)



Answer: (c)

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

GF, KI, OL, SO, ?

(a) YS

(b) WR

(c) WS

(d) XR

Answer: (b)

15. Five people, P, Q, R, S, and T, are sitting in a straight row, facing north. Q sits to the immediate left of S. Only three people sit between R and T. P sits to the immediate left of T. Who sits in the middle of the row?

(a) T

(b) P

(c) Q

(d) S

Answer: (d)

16.

Select the correct mirror image of the given combination when the mirror is placed at MN as shown below.



(a)



(b)



(c)



(d)



Answer: (b)

17. Select the option in which the pair of letter-clusters share the same relationship as that shared by the given pair of letter-clusters.

TRACK : IAYPR :: ?

(a) PROUD : NPMSB

(b) STRAW : UYPRQ

(c) POLDY : WBJQN

(d) GAMES : UGOCE

Answer: (b)

18. Seven athletes A, B, C, D, E, F and G participate in a race. E is ahead of A but behind F. D is ahead of only two athlete. G is running last. C is running behind only two athlete. F is not the first. Which athlete is running in the fourth position from behind?

(a) C

(b) E

(c) A

(d) D

Answer: (b)

19. In a certain code language, 'ACD' is coded as '12', and 'BEA' is coded as '10'. How will 'ECG' be coded in that language?

(a) 105

(b) 85

(c) 115

(d) 125

Answer: (a)

20. In a certain code language, 'COBBLESTONES' is written as 'BBOCTSELSENO', and 'SATISFACTORY' is written as 'ITASCAFSYROT'. How will 'TACHYCARDIAS' be written in that code language?

(a) HACTRACYSAID

(b) HCATRACYSAID

(c) HCATCARSAIDY

(d) YHCATCARSAID

Answer: (b)

21.

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



(a)



(b)



(c)



(d)



Answer: (b)

22. Select the numbers from among the given options that can replace the question marks (?) in the following series.

8, 9, 5, 16, 27, 25, 32, 81, 125, ?, 243, ?

(a) 325, 64

(b) 375, 64

(c) 64, 375

(d) 64, 625

Answer: (d)

23. Select the option in which the numbers are related in the same way as are the numbers in the given 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 /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)

(12, 8, 16) (22, 10, 144)

(a) (28, 20, 36)

(b) (16, 10, 24)

(c) (24, 12, 121)

(d) (18, 8, 100)

Answer: (d)

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

17, 25, 34, 44, 55, ?

(a) 68

(b) 67

(c) 69

(d) 66

Answer: (b)

25. After interchanging the given two numb wh will be the value of the given expression?

20 and 10

10 + 30 – 5 × 20 ÷ 2

(a) 20

(b) 30

(c) 25

(d) 35

Answer: (c)

Numerical Aptitude

2.

Two successive discounts of 20% and 30% are given while selling an article. What is the ratio of the marked price of the article to its selling price?

(a)

25 : 14

(b)

21 : 10

(c)

24 : 13

(d)

27 : 16

Answer: (a)

3.

The average of 21 consecutive natural numbers is 53. What is the value of the smallest of these 21 numbers?

(a)

43

(b)

44

(c)

41

(d)

42

Answer: (a)

4.

A boat takes 16 minutes and 24 minutes to cover a certain distance downstream and upstream, respectively. If the speed of the boat in still water is 15 km/h, find the speed of the stream.

(a)

5 km/h

(b)

2 km/h

(c)

3 km/h

(d)

2.5 km/h

Answer: (c)

5.

The ratio of the number of hens to the number of goats on farm A is $5:4$ and that on farm B is $5:7$. What could be the ratio of the total number of hens to the total number of goats in farms A and B taken together?

(a)

$3:2$

(b)

$1:2$

(c)

$9:11$

(d)

$7:11$

Answer: (c)

6.

If $A = 1300$ and $B = 1450$, then B is approximately what percentage more than A?

(a)

7.41%

(b)

9.86%

(c)

11.54%

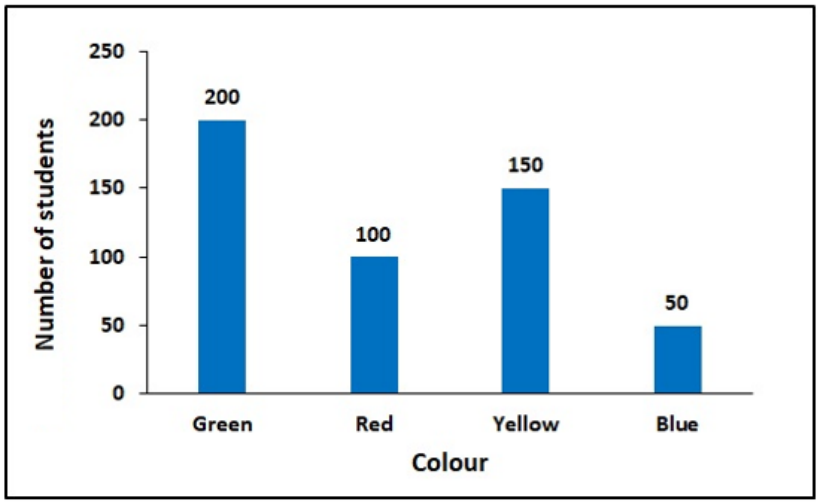
(d)

13.46%

Answer: (c)

7.

The following bar graph shows the number of students who like four different colours.



Find the difference between the number of students who like yellow and those who liked blue.

(a)

100

(b)

125

(c)

50

(d)

60

Answer: (a)

8.

A goat is tied with a 10.5 m-long rope to one corner of a plot which is in the shape of an equilateral triangle each side of which is 16 m long. Find the area that the goat can graze on.

(a)

$62.25\ m^2$

(b)

$53.5\ m^2$

(c)

$57.75\ m^2$

(d)

$51.75\ m^2$

Answer: (c)

9.

Simplify the following expression.

$25 - (4 \div 2) + 11.5 + 9.5$

(a)
46
(b)
44
(c)
45
(d)
47

Answer: (b)

11.

A train running at the speed of $\frac{140}{9}$ m/sec, crosses a pole in 27 sec. Find the length of the train.

(a)
320 m
(b)
120 m
(c)
420 m
(d)
220m

Answer: (c)

12.

If the height and the radius of the base of a cone are both doubled, the volume of the cone becomes _____ of its previous volume.

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

Answer: (d)

14.

Select the number that will come in place of the question mark (?) in the following mathematical statement.

$\frac{5}{9}$ of $\frac{11}{14}$ of 42% of $540 = ?^2 - 45$

(a)

17

(b)

13

(c)

9

(d)

12

Answer: (d)

16.

A cube has sides that are 4 cm each, and the dimensions of a cuboid are 2 cm×3 cm×4 cm. Find the positive difference between the volume of the cube and that of the cuboid.

(a)

120 cm^3

(b)

40 cm^3

(c)

20 cm^3

(d)

60 cm^3

Answer: (b)

17.

Find the LCM of the fractions $\frac{2}{5}, \frac{3}{7}$ and $\frac{4}{9}$.

(a)

$\frac{2}{315}$

(b)

$\frac{1}{315}$

(c)

24

(d)

12

Answer: (d)

19.

P can do ½ of a work in 10 days and Q can do ⅕ of the same work in 4 days. In how many days can both finish the work, working together?

(a)

15 days

(b)

14 days

(c)

10 days

(d)

5 days

Answer: (c)

20.

If the cost of 10 books is ₹250, then find the cost of 15 books.

(a)

₹215

(b)

₹115

(c)

₹375

(d)

₹125

Answer: (c)

24.

The average of five terms is 40. If the first four terms are given as 50, 52, 35 and 46, find the fifth term.

(a)

18

(b)

17

(c)

16

(d)

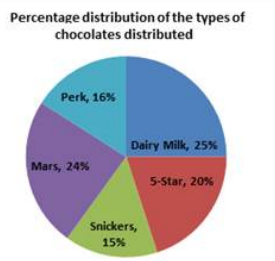
15

Answer: (b)

25.

Study the given pie-chart and answer the question that follows.

The pie-chart shows the percentage distribution of the number of different types of chocolates distributed by Akanksha to the residents of a children's home, as percentages of all the chocolates taken together, that were distributed by her to these residents.



The average number of chocolates of Dairy Milk, 5-Star and Snicke.. .ogether is equal to the number of chocolates distributed of which of the given types?

(a)

5-Star

(b)

Perk

(c)

Dairy Milk

(d)

Mars

Answer: (a)

General Awareness

1. Which of the following states of India will host the 2023 Men's Hockey World Cup?

(a) Maharashtra
(b) Odisha
(c) Karnataka
(d) Uttar Pradesh

Answer: (b)

2. Who among the following personalities, known by the affectionate moniker ‘Nightingale of India’, passed away in February 2022?

(a) Lata Mangeshkar
(b) Saroj Khan
(c) Abhilasha Patil
(d) Tarla Joshi

Answer: (a)

3. Shiv Kumar Sharma is associated with which instrument?

(a) Sitar
(b) Santoor
(c) Nadaswaram
(d) Dholak

Answer: (b)

4. In which state of India is Konark dance festival ce ated?

(a) Karnataka
(b) Odisha
(c) Jharkhand
(d) Rajasthan

Answer: (b)

5. Which of the following states has two houses in its state legislature?

(a) Gujarat
(b) Maharashtra
(c) Rajasthan
(d) Jharkhand

Answer: (b)

6. Which of the following is the only large river in the Indian desert?

(a) Kosi River
(b) Betwa River
(c) Luni River
(d) Banas River

Answer: (c)

7. Which country won the 2018 FIH Men's Hockey World Cup?

(a) Belgium
(b) Australia
(c) The Netherlands
(d) Spain

Answer: (a)

9. Aihole was the capital of the _____.

(a) Chalukyas
(b) Pallavas
(c) Pandayas
(d) Cholas

Answer: (a)

10. Who among the following devised the policy 'Doctrine of Lapse'?

(a) Lord Dalhousie
(b) Lord Mountbatten
(c) Lord Cornwallis
(d) Lord Canning

Answer: (a)

11. Tankeswar Hazarika Borbayan received the Sange Natak Akademi Award for the year 2018 for his contribution to which classical dance of India?

(a) Kuchipudi
(b) Bharatanatyam
(c) Sattriya
(d) Kathak

Answer: (c)

13. Which of the following is an example of artificial ecosystem?

(a) Garden
(b) Forest
(c) Lake
(d) Pond

Answer: (a)

14. Which of the following substances is insoluble in water?

(a) Salt
(b) Sugar
(c) Chalk powder
(d) Milk

Answer: (c)

15. How many fundamental duties of Indian citizens are there in the Indian Constitution, as of March 2022?

(a) 5
(b) 11
(c) 9
(d) 3

Answer: (b)

16. At which Buddhist site of India did Gautama Buddha first preach the Dharma?

(a) Kushinagar
(b) Barabar Caves
(c) Bodh Gaya
(d) Sarnath

Answer: (d)

18. Antyodaya Anna Yozana (AAY) was launched by the government to fight _____.

(a) unemployment
(b) poverty
(c) environmental degradation
(d) population growth

Answer: (b)

19. What is the sex ratio (Approx) of India as per Cen[illegible] 2011?

(a) 940 females per 1000 males
(b) 740 females per 1000 males
(c) 640 females per 1000 males
(d) 840 females per 1000 males

Answer: (a)

20. Sam talks about an example of an igneous rock. Which of the following can it be?

(a) Sandstone
(b) Basalt
(c) Limestone
(d) Marble

Answer: (b)

21. The financial year in the Indian economy runs from _____.

(a) 1 January to 31 May
(b) 1 April to 30 June
(c) 1 June to 31 March
(d) 1 April to 31 March

Answer: (d)

22. Which of the following is the state of origin of the Odissi dance form?
    (a) Andhra Pradesh
    (b) Odisha
    (c) Tamil Nadu
    (d) Kerala

    Answer: (b)

23. Which of the following trains of India is the fastest (as per trial runs), as of April 2022?
    (a) Vande Bharat Express (Train 18)
    (b) Maharashtra Sampark Kranti Express
    (c) Howrah Rajdhani Express
    (d) Howrah Ranchi Shatabdi Express

    Answer: (a)

25. What is the chemical formula of baking soda?
    (a) $NaHCO_3$
    (b) NH_4Cl
    (c) Na_2CO_3
    (d) $CaSO_4$

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

General Intelligence and Reasoning

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

Numerical Aptitude

2	**(a)**	3	**(a)**	4	**(c)**	5	**(c)**	6	**(c)**	7	**(a)**	8	**(c)**	9	**(b)**		
11	**(c)**	12	**(d)**	14	**(d)**	16	**(b)**	17	**(d)**	19	**(c)**	20	**(c)**	24	**(b)**		
25	**(a)**																

General Awareness

1	**(b)**	2	**(a)**	3	**(b)**	4	**(b)**	[illegible]	**(b)**	6	**(c)**	7	**(a)**	9	**(a)**		
10	**(a)**	11	**(c)**	13	**(a)**	14	**(c)**	[illegible]	**(b)**	16	**(d)**	18	**(b)**	19	**(a)**		
20	**(b)**	21	**(d)**	22	**(b)**	23	[illegible]	5	**(a)**								