PREVIOUS YEAR PAPER

SSC MTS 2021 — 19 July 2022, Shift 1

SSC MTS & Havaldar · 19 July 2022 · 9:00 AM - 10:30 AM

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

Left out of the original paper: 7 (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 19 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-2021-19-jul-shift-1/

General English

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

A gut feeling

(a) False attempt
(b) An instinct or intuition
(c) A liability
(d) A suppressed feeling

Answer: (b)

2. 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.

New fashion trends / come onto the / scene periodically.

(a) come onto the
(b) New fashion trends
(c) scene periodically
(d) No error

Answer: (d)

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

The weather patterns _____ that we will have a winter season, perhaps a good one.

(a) suggests
(b) has suggested
(c) suggest
(d) have been suggested

Answer: (c)

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

A place for breeding and keeping birds

(a) Kennel
(b) Aviary
(c) Apiary
(d) Den

Answer: (b)

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

My son has been sleeping for twelve hours at a stretch.

(a) is been sleeping
(b) were sleeping
(c) have been sleeping
(d) No improvement required

Answer: (d)

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

Smoking is _____ in my office building.

(a) banned
(b) bend
(c) band
(d) bated

Answer: (a)

8. Select the correctly spelt word.

(a) Experienses
(b) Immersive
(c) Institutionalsed
(d) Tremandous

Answer: (b)

9. Select the most appropriate synonym of the underlined word.

Our company wants to collaborate with your team.

(a) Repel
(b) Defy
(c) Captivate
(d) Collude

Answer: (d)

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

The action of using someone or something as a model

(a) Magic
(b) Foundation
(c) Imitation
(d) Caption

Answer: (c)

11. Select the INCORRECTLY spelt word.

(a) Local
(b) Vehical
(c) Focal
(d) Vocal

Answer: (b)

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

Go the extra mile

(a) Overwhelming the competitors
(b) Going in search of something better
(c) Going above and beyond whatever is required the task at hand
(d) Wasting time in unnecessary efforts

Answer: (c)

13. 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.

My friend Jatin usually wears a spectacle.

(a) My friend Jatin
(b) usually wears
(c) a spectacle
(d) No error

Answer: (c)

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

Polished

(a) Crude
(b) Paramount
(c) Boring
(d) Cultured

Answer: (d)

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

The main road was entirely blocked till the time the cranes move the damage vehicles.

(a) No substitution required
(b) moved the damaged
(c) moving the damage
(d) moves the damaged

Answer: (b)

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

Scold

(a) Nag
(b) Praise
(c) Alarm
(d) Avoid

Answer: (b)

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

Irrational

(a) Gloomy
(b) Illogical
(c) Reasonable
(d) Peaceful

Answer: (c)

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

Divergence

(a) Dissonance
(b) Separation
(c) Departure
(d) Confluence

Answer: (d)

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

Doctor Bayley tripped under some large roots and cuts her head on a rock.

(a) No improvement required
(b) tripped over some large roots and cut
(c) tripped over and above some large roots and cut
(d) tripped upon some larger roots and cuts

Answer: (b)

20. Select the option that will improve the underlined part of the given sentence. In case no improvement is needed, select 'No improvement required'.I didn't saw any point in spending money on new clothes.

(a) didn't seen any

(b) don't sees any

(c) No improvement required

(d) didn't see any

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.
>
> Regular check-ups are (1)___ for a car's top-notch performance, but did you know that there is a direct link (2)___ your car health and its emissions? A well-maintained car engine is (3)___ efficient and burns less gas, (4)___ reducing airborne emissions. Secondly, tyre pressure (5)___ always match the manufacturer-recommended Pounds Per Square Inch (PSI) rating.

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

(a) trivial

(b) nominal

(c) acute

(d) vital

Answer: (d)

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

(a) along

(b) among

(c) between

(d) across

Answer: (c)

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

(a) many

(b) such

(c) few

(d) more

Answer: (d)

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

(a) hereby

(b) yet

(c) thereby

(d) though

Answer: (c)

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

(a) have to
(b) lest
(c) must
(d) would

Answer: (c)

General Intelligence and Reasoning

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

6, 24, 60, 120, 210, ?

(a) 336
(b) 322
(c) 343
(d) 432

Answer: (a)

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

WXYZ, YZWX, ABUV, CDST, ?

(a) ABQR
(b) EFQR
(c) EFGR
(d) EFUV

Answer: (b)

3. In a certain code language, 'BRAVE' is written as '43' and 'BOTH' is written as '41'. How will 'ABACUS' be written in that code language?

(a) 43
(b) 47
(c) 41
(d) 31

Answer: (c)

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

264, 288, 312, ?, 360, 384

(a) 324
(b) 348
(c) 342
(d) 336

Answer: (d)

5. Nine people, A, B, C, D, E, F, G, H, and I, are sitting in a row facing south. E sits in the middle. Three people sit between E and G. Six people sit between G and B. Three people sit between B and A. F sits second to the right of A. I sits fourth to the left of F. I and E are not immediate neighbours. B and C are not neighbours. H sits to the right of D. Who is sitting fourth to the right of G?

(a) A

(b) E

(c) F

(d) C

Answer: (b)

6.

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



(a)



(b)



(c)



(d)



Answer: (d)

7. Which two numbers (NOT digits) should be interchanged to make the following equation correct?

26 ÷ 2 + 13 × 6 − 4 = 10

(a) 13 and 4

(b) 2 and 13

(c) 2 and 10

(d) 2 and 4

Answer: (b)

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

Cup : Coffee :: Glass : Juice :: Bowl : ?

(a) Knife
(b) Soup
(c) Spoon
(d) Dish

Answer: (b)

9. 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 cookies are sweet. Some sweets are snacks.

Conclusions:
I. All sweets are cookies.
II. All cookies are snacks.

(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: (a)

10. Select the option in which the numbers are related in the same way as are the numbers in the following 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)

(16, 18, 20) (17, 19, 21)

(a) (64, 66, 68)
(b) (24, 26, 30)
(c) (28, 30, 26)
(d) (36, 40, 42)

Answer: (a)

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

RN : UQ

(a) LA : OX

(b) TG : WL

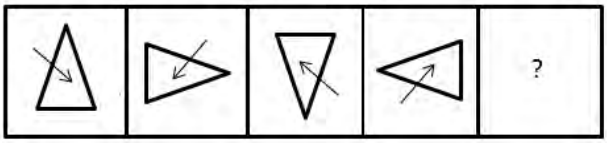
(c) KR : NU

(d) PN : SR

Answer: (c)

12.

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



(a)



(b)



(c)



(d)



Answer: (d)

13. 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. No B is
A. II. No C is
B.

Conclusions: I. No C is
A. II. No A is
B. III. Some B are not C.

(a) Both conclusions I and II follows

(b) Only conclusion III follows

(c) Both conclusions II and III follows

(d) None of the conclusions follow

Answer: (c)

14. In a certain code language, 'HELP' is coded as '851216' and 'GRAN' is coded as '718114'. How will 'FOMS' be coded in that language?

(a) 6511319

(b) 615139

(c) 6141319

(d) 6151319

Answer: (d)

15. S, T, U, V and W are sitting around a cir[illegible] ta[illegible] facing the centre (but not necessarily in the same order). S is the immediate neighbour of [illegible]W. U is to the immediate right of T. V is the immediate neighbour of U and W. Who is sitting to the immediate left of S?

(a) V

(b) W

(c) U

(d) T

Answer: (b)

16. The height of five students, Aakriti, Kiran, Lisa, Manisha and Rekha, are compared. The height of Kiran is more than only two students. The height of Manisha is immediately greater than Rekha, and Rekha is immediately greater than Kiran. How many students are taller than Rekha?

(a) Four

(b) Two

(c) Three

(d) One

Answer: (d)

17. In a certain code language, if blue is called pink, pink is called yellow, yellow is called orange, orange is called red, and red is called violet, then what is the colour of sunflower?

(a) Orange
(b) Red
(c) Pink
(d) Yellow

Answer: (a)

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

TAP : JUN

(a) DOC : JUI
(b) FED : XYZ
(c) TXA : VRY
(d) KIB : VEE

Answer: (b)

19. 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 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.)

(3, 5, 30) (6, 5, 60)

(a) (4, 6, 38)
(b) (6, 7, 84)
(c) (4, 7, 28)
(d) (3, 9, 44)

Answer: (b)

20.

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



(a)



(b)



(c)



(d)



Answer: (a)

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

1 × 14 + 30 – 20 ÷ 10 = ?

(a) 43

(b) 21

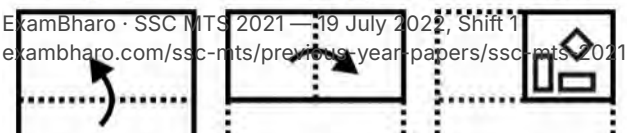
(c) 39

(d) 12

Answer: (d)

22.

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)



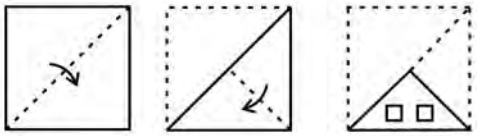
(d)



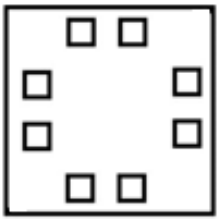
Answer: (a)

23.

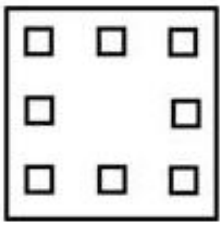
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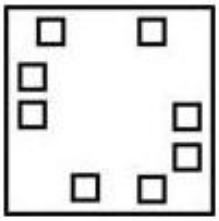
(a)



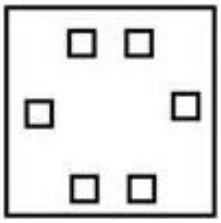
(b)



(c)



(d)



Answer: (a)

24. If &@$! = 8213 and &%# = 860, then what is %#&$?

(a) 6801

(b) 6081

(c) 6810

(d) 6018

Answer: (b)

25.

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



(a)



(b)



(c)



(d)



Answer: (b)

Numerical Aptitude

1.

What is the value of $-19 + 11 - 5 - (1 \div 8)$ *of* 32?

(a)

-17

(b)

17

(c)

19

(d)

-19

Answer: (a)

2.

A work that could be completed in 10 days was completed in 8 days as 5 more men joined at the start of work. What was the total number of men before the 5 men joined?

(a)

18

(b)

10

(c)

20

(d)

12

Answer: (c)

3.

The average of X, Y and Z is 2X. If the average of Y and Z is 20, then what is the value of X?

(a)

6

(b)

8

(c)

10

(d)

5

Answer: (b)

4.

A merchant bought 60 sheep at ₹120 per sheep. He sold 40 of them at ₹150 each. Another 10 of the sheep died. What should be the selling price of the remaining sheep, if he wants a total profit of ₹800?

(a)

₹150

(b)

₹180

(c)

₹250

(d)

₹200

Answer: (d)

6.

What distance will be covered by a car moving at 72 km/h in 10 seconds?

(a)

200 m

(b)

50 m

(c)

20 m

(d)

100 m

Answer: (a)

7.

The volume of a right circular cone is 196π cm^3. If the area of its base is 154 cm^2, what is the vertical height of the cone? [Use $\pi = \frac{22}{7}$]

(a)

10 cm

(b)

12 cm

(c)

14 cm

(d)

16 cm

Answer: (b)

8.

If 90 is increased by x%, then it becomes 117. What is the value of x?

(a)

20

(b)

30

(c)

15

(d)

25

Answer: (b)

9.

The area of a circle is 15400 cm^2. What is the positive difference between the radius and the circumference of the circle? [Use $\pi = \frac{22}{7}$]

(a)

410 cm

(b)

370 cm

(c)

330 cm

(d)

420 cm

Answer: (b)

10.

In a class of 50 students and 6 teachers, each student got a number of chocolates that is equal to 16% of the total number of students, and each teacher got a number of chocolates that is equal to 12% of the total number of students. How many chocolates were there in total?

(a)

436

(b)

420

(c)

360

(d)

450

Answer: (a)

11.

A vendor mixed two varieties of rice costing ₹60 per kg and ₹45 per kg in the ratio 3 : 7. If he sells the mixed variety at ₹65 per kg, then what is his gain percentage? [Give your answer correct to two decimal places.]

(a)

31.31%

(b)

15.5%

(c)

49.5%

(d)

5.5%

Answer: (a)

12.

If a person goes from home to his college at a speed of 12 km/h, he reaches 7 minutes early. If he goes at a speed of 8 km/h, he reaches 14 minutes late. What is the distance between his home and his college?

(a)

9.2 km

(b)

9.6 km

(c)

8.4 km

(d)

7.6 km

Answer: (c)

13.

If the total simple interest received on a sum for 25 years is $\frac{5}{8}$ of the principal, what is the rate of simple interest paid per annum?

(a)

2.5%

(b)

2%

(c)

3.5%

(d)

3%

Answer: (a)

14.

The average of X, Y and Z is 52. The average of X and Y is 48. The average of Y and Z is 60. What is the value of Y?

(a)

56

(b)

48

(c)

60

(d)

54

Answer: (c)

15.

A man divides ₹1,100 among three kids in the ratio $\frac{1}{2} : \frac{2}{5} : \frac{3}{4}$. What is the share of the kid who got the maximum share?

(a)

₹500

(b)

₹600

(c)

₹750

(d)

₹800

Answer: (a)

16.

35 girls can complete a piece of work in 12 days. If 5 fewer girls are put on the work, in how many days can they complete the work?

(a)

12

(b)

15

(c)

13

(d)

14

Answer: (d)

17.

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

$\frac{12}{15}$ of 40% of 1800 = ? × 480

(a)

1.2

(b)

0.9

(c)

1.05

(d)

0.8

Answer: (a)

18.

The selling price of a pen is ₹660. If the profit is 20%, then what is the nominal profit earned on the sale of the pen?

(a)

₹110

(b)

₹130

(c)

₹140

(d)

₹90

Answer: (a)

21.

The lengths of the parallel sides of a trapezium are 10 cm and 20 cm. If the distance between these parallel lines is 5 cm, then what is the area of the trapezium?

(a)

$50\ cm^2$

(b)

$60\ cm^2$

(c)

$45\ cm^2$

(d)

$75\ cm^2$

Answer: (d)

22.

What is the largest two-digit number that is divisible by both 7 and 3?

(a)

91

(b)

96

(c)

63

(d)

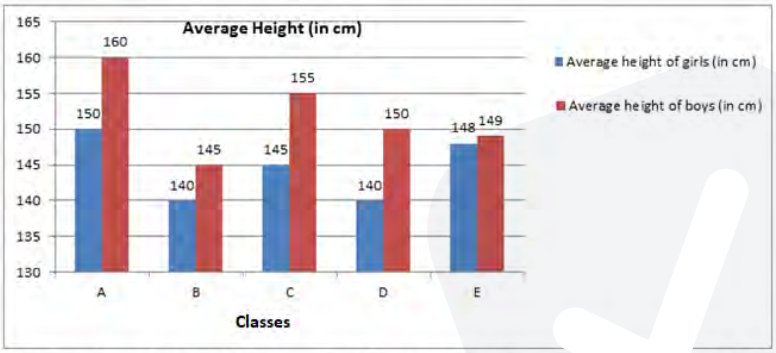
84

Answer: (d)

23.

Study the given graph and answer the question that follows.

The graph shows the average height (in cm) of the boys and the girls of five classes in a school.



If the numbers of girls and the numbers of boys in Class C are equal, what is the combined average height of all the students of Class C, taken together?

(a)

150 cm

(b)

140 cm

(c)

135 cm

(d)

145 cm

Answer: (a)

24.

If $24X + 24Y = 192$, then what is the average of X and Y?

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

Answer: (c)

General Awareness

1. Which famous Rashtrakuta king built the rock-cut temple of Kailash at Ellora?
   (a) Bhoja
   (b) Govinda III
   (c) Rashtrakuta King Krishna I
   (d) Jai Chand

   Answer: (c)

2. Commercial banks keep their deposits with RBI. T se deposits are called _____.
   (a) liability
   (b) loans
   (c) inheritance
   (d) reserves

   Answer: (d)

3. Pandit Rajendra Gangani is associated with which classical dance of India?
   (a) Manipuri dance
   (b) Kathak dance
   (c) Odissi dance
   (d) Sattriya dance

   Answer: (b)

4. With which musical instrument was Ustad Bismillah Khan associated?
   (a) Shehnai
   (b) Sitar
   (c) Guitar
   (d) Santoor

   Answer: (a)

5. The popular style of temple architecture in northern India is called _____.

(a) Panchayatana

(b) Nagara

(c) Shikara

(d) Dravida

Answer: (b)

6. Who took oath as the 28th Chief Minister of Punjab in March 2022?

(a) Bhagwant Mann

(b) Charanjit Singh Channi

(c) Parkash Singh Badal

(d) Amarinder Singh

Answer: (a)

7. Which of the following statements is INCORRECT?

(a) Electric charge is a scalar quantity.

(b) Protons are positively charged.

(c) Electrons are negatively charged.

(d) Electric charge is a vector quantity.

Answer: (d)

8. In which year did the Mughal Emperor Shah Alam II appoint the East India Company as the Diwan of Bengal?

(a) 1758

(b) 1755

(c) 1760

(d) 1765

Answer: (d)

9. The Sattriya dance has developed from the monasteries of:

(a) West Bengal

(b) Ladakh

(c) Assam

(d) Tripura

Answer: (c)

10. Which of the following is NOT a reason for slowing down of the Non-cooperation Movement?

(a) Due to the absence of alternative Indian institution, boycott of British institutions posed a problem.

(b) Leaders of the movement shifted their focus towards domestic work thus created a void.

(c) Many lawyers resigned but then absence of income for a longer period of time compelled them to rejoin.

(d) Khadi cloth was often more expensive than mass-produced mill cloth and poor people could not afford to buy it.

Answer: (b)

11. Amoeba acquires its food through the process of _____.
    (a) photosynthesis
    (b) diffusion
    (c) endocytosis
    (d) exocytosis
    Answer: (c)

12. The part of the Himalayas lying between Satluj and Kali rivers is known as _____.
    (a) Himachal Himalayas
    (b) Kumaon Himalayas
    (c) Punjab Himalayas
    (d) Kashmir Himalayas
    Answer: (b)

13. Which of the following is NOT a pair of micronutrients?
    (a) Iodine and minerals
    (b) Calcium and fats
    (c) Minerals and iron
    (d) Iodine and iron
    Answer: (b)

14. Half of India's population lives in just five states. W h of the following is one of those states?
    (a) Uttarakhand
    (b) Kerala
    (c) Gujarat
    (d) West Bengal
    Answer: (d)

15. The largest dam in India, the Hirakud Dam, is built on which of the following rivers?
    (a) Tapi
    (b) Godavari
    (c) Kaveri
    (d) Mahanadi
    Answer: (d)

16. Which team has won the season 8 of Pro Kabbadi league?
    (a) Patna Pirates
    (b) Dabang Delhi KC
    (c) UP Yoddha
    (d) Bengaluru Bulls
    Answer: (b)

17. Who among the following won the Formula One 2022 Bahrain Grand Prix?

(a) Charles Leclerc
(b) Lewis Hamilton
(c) Max Verstappen
(d) Carlos Sainz Jr.

Answer: (a)

18. Which of the following Indian festivals celebrates the death of the demon king Ravana at the hands of Lord Rama?

(a) Navratri
(b) Dussehra
(c) Diwali
(d) Holi

Answer: (b)

19. What is the name of the DIGI-book launched by NITI Aayog's Atal Innovation Mission (AIM)?

(a) Innovations For You
(b) Innovations and You
(c) Innovations For All
(d) Innovations for Youth

Answer: (a)

20. Tendulkar Methodology is associated with the es ation of _____ in India.

(a) unemployment
(b) population size
(c) poverty
(d) national income

Answer: (c)

21. Ashoka fought a war to conquer Kalinga. Kalinga was the ancient name of coastal _____.

(a) Madras
(b) Orissa
(c) Bombay
(d) Bengal

Answer: (b)

24. Which of the following is a Fundamental Right?

(a) Right to fundamental duties
(b) Right to elect
(c) Right to information
(d) Right to constitutional remedies

Answer: (d)

25. Which of the following states has one house in its state legislature?

(a) Karnataka

(b) Gujarat

(c) Andhra Pradesh

(d) Maharashtra

Answer: (b)

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

General Intelligence and Reasoning

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

Numerical Aptitude

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

General Awareness

1	**(c)**	2	**(d)**	3	**(b)**	4	**(a)**	[illegible]	**(b)**	6	**(a)**
7	**(d)**	8	**(d)**	9	**(c)**	10	**(b)**	11	**(c)**	12	**(b)**
[illegible]	**(b)**	14	**(d)**	15	**(d)**	16	**(b)**	17	**(a)**	18	**(b)**
19	**(a)**	20	[illegible]	[illegible]	**(b)**	24	**(d)**	25	**(b)**		