PREVIOUS YEAR PAPER

SSC MTS 2021 — 14 July 2022, Shift 2

SSC MTS & Havaldar · 14 July 2022 · 1:00 PM - 2:30 PM

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

Left out of the original paper: 15 (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 14 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-2021-14-jul-shift-2/

General English

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

John ran pretty fast, _____ he did not win the race.

(a) so
(b) though
(c) for
(d) and

Answer: (b)

2. Select the most appropriate meaning of the given i n.

Out of the blue

(a) Found commonly
(b) Act cleverly
(c) Completely unexpectedly
(d) Go away secretly

Answer: (c)

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

An iron hand

(a) Alone, without assistance
(b) Strict control
(c) Memorising lessons
(d) Straight talk

Answer: (b)

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

I like to read the newspaper _____ the morning.

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

Answer: (d)

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

Garnish the drink with cranberries or a slice of fresh peach.

(a) Embellish
(b) Wend
(c) Blemish
(d) Dismantle

Answer: (a)

6. Select the option that rectifies the incorrectly spelt words in the given sentence.

Go, rest in the dark shadowe of the graet forest.

(a) Go, rest in the dark shadow of the great forest.
(b) Go, rest in the dark shadow of the grate fores
(c) Go, rest in the dark shaddow of the great for
(d) Go, rest in the dark shadowe of the at fo t.

Answer: (a)

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

He have not been in the right mental state since 2017.

(a) were not being in
(b) has not been in
(c) have been not at
(d) No improvement required

Answer: (b)

8. 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.

Scientists have made dramatic progress in understanding an universe and the mechanisms of biology.

(a) Scientists have made dramatic progress
(b) and the mechanisms of biology
(c) in understanding an universe
(d) No error

Answer: (c)

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

We are planning to go to Delhi _____ train.

(a) on
(b) by
(c) of
(d) at

Answer: (b)

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

Killing one self

(a) Regicide
(b) Suicide
(c) Homicide
(d) Matricide

Answer: (b)

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

Once upon a time there was a very rich man <u>which lived with</u> his three daughters.

(a) who live by
(b) No improvement required
(c) who lived with
(d) who did lived with

Answer: (c)

12. 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.

Despite the pain in his leg, / Nicholas completed / the marathon.

(a) No error
(b) Nicholas completed
(c) the marathon
(d) Despite the pain in his leg,

Answer: (a)

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

Subhash had just returned from work in 9 p.m.

(a) work at
(b) the work on
(c) working in
(d) No improvement required

Answer: (a)

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

Insecure

(a) Suspicious
(b) Anxious
(c) Massive
(d) Confident

Answer: (d)

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

She remained resolute in her belief.

(a) inflexible
(b) sluggish
(c) barbaric
(d) wavering

Answer: (d)

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

The merchant distributes work among the weavers based on the orders received.

(a) for weavers
(b) No improvement required
(c) towards the weavers
(d) at the weavers

Answer: (b)

17. Select the correctly spelt word.

(a) Fracsion
(b) Frcation
(c) Fraction
(d) Fractition

Answer: (c)

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

Uncanny

(a) Deranged
(b) Spooky
(c) Reckless
(d) Insightful

Answer: (b)

19. 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.

This pandemic have / profoundly changed our / way of living.

(a) No error
(b) This pandemic have
(c) profoundly changed our
(d) way of living

Answer: (b)

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

Brashness

(a) Intelligence
(b) Nerve
(c) Timidity
(d) Boldness

Answer: (c)

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.
>
> All plants and animals need water to survive. There can be no life (1) _____ earth without water. Why is water (2) _____ important? It is (3) _____ 60 percent of our body weight is made up of water. Our bodies use water in all the cells, organs, and tissues, to help (4) _____ body temperature and (5) _____other bodily functions.

21. Select the most appropriate option to fill in blank no. 1.
    (a) at
    (b) on
    (c) into
    (d) upon
    Answer: (b)

22. Select the most appropriate option to fill in blank no. 2.
    (a) so
    (b) as
    (c) few
    (d) much
    Answer: (a)

23. Select the most appropriate option to fill in blank no. 3.
    (a) therefore
    (b) That
    (c) Because
    (d) so that
    Answer: (c)

24. Select the most appropriate option to fill in blank no. 4.
    (a) quantify
    (b) collect
    (c) grate
    (d) regulate
    Answer: (d)

25. Select the most appropriate option to fill in blank no. 5.
    (a) subjugate
    (b) obtain
    (c) release
    (d) maintain
    Answer: (d)

General Intelligence and Reasoning

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

14 + 7 ÷ 729 × 81 – 9 = 500

(a) 81 and 9, ÷ and ×

(b) 14 and 9, – and ×

(c) 7 and 729, + and –

(d) 81 and 7, + and ×

Answer: (a)

3. Which two numbers should be interchanged to make the given equation correct?

35 + 3 ÷ 3 – 5 + 1 = 40

(a) 40 and 35

(b) 1 and 5

(c) 1 and 35

(d) 35 and 5

Answer: (b)

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

96, 144, ?, 240, 288

(a) 210

(b) 192

(c) 188

(d) 224

Answer: (b)

6. 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.

SAM : UES :: RAT : TEZ :: LOI : ?

(a) NSO

(b) NTO

(c) NUO

(d) NSP

Answer: (a)

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.

Statements

Some remotes are batteries. All batteries are chargers. No charger is a cable.

Conclusions:
I) Some remotes are cables.
II) Some batteries are cable.

(a) Neither conclusion I nor II follows

(b) Only conclusion I follows

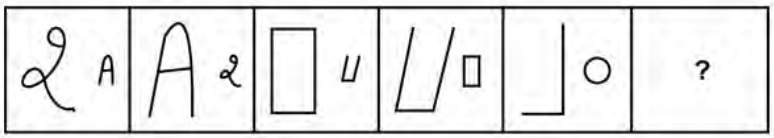
(c) Both conclusions I and II follow

(d) Only conclusion II follows

Answer: (a)

9.

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



(a)



(b)



(c)



(d)



Answer: (a)

10. In a certain code language, 'PAIDY' is written as 'NYGBW', and 'FORST' is written as 'DMPQR'. How will 'HARKG' be written in that language?

(a) FYPJE

(b) FYPIE

(c) FYQTE

(d) FXQIE

Answer: (b)

11. In a certain code language, 'AGC' is coded as '42', and 'BAD' is coded as '16'. How will 'KIC' be coded in that language?

(a) 297

(b) 562

(c) 594

(d) 542

Answer: (c)

12.

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



(a)



(b)



(c)



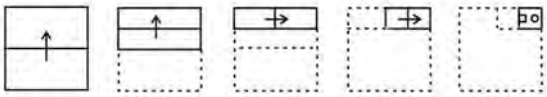
(d)



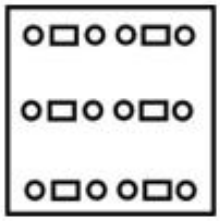
Answer: (a)

13.

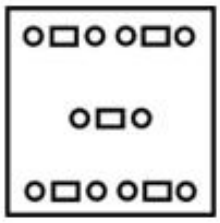
The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the following figures. How would this paper look when unfolded?



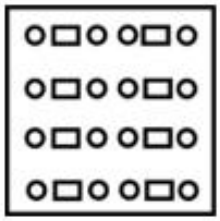
(a)



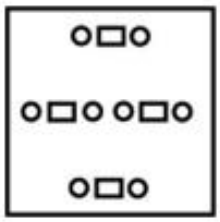
(b)



(c)



(d)



Answer: (c)

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

RAB, SZD, TYF, UXH, ?

(a) VWJ

(b) VWK

(c) WVJ

(d) VVJ

Answer: (a)

15. 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.

COMPUTER : EOOPWTGR :: SHOWER : UHQWGR :: NEEDLE : ?

(a) NGEFLG

(b) NGEFLE

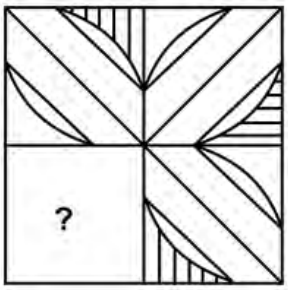
(c) PEDGNE

(d) PEGDNE

Answer: (d)

16.

Select the figure from the options that can replace the question mark (?) and complete the pattern.



(a)



(b)



(c)



(d)



Answer: (b)

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

(11, 22, 44) (15, 12, 42)

(a) (3, 3, 15)

(b) (21, 42, 63)

(c) (12, 24, 39)

(d) (18, 8, 44)

Answer: (d)

19. In a certain code language, 'J' is written as '10' and 'ACT' is written as '24'. How will 'BEAR' be written in that language?

(a) 25

(b) 27

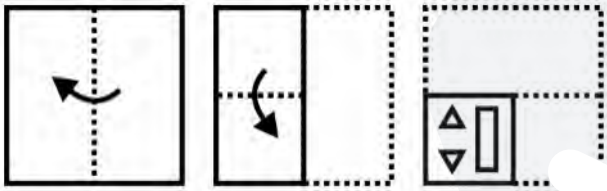
(c) 24

(d) 26

Answer: (d)

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)



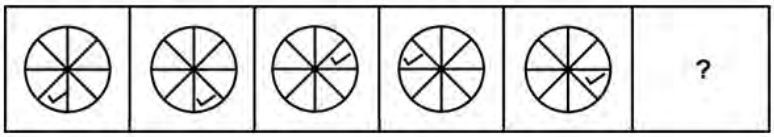
(d)



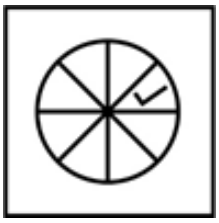
Answer: (c)

22.

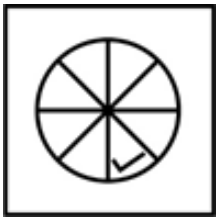
Select the figure from among the given options that can replace the question mark (?) in the following series.



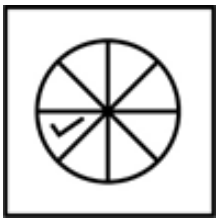
(a)



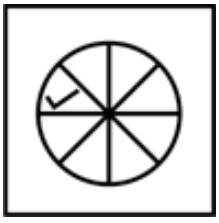
(b)



(c)



(d)



Answer: (c)

23. 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. (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)

7854 : 5632 :: 8424 : 6202 :: 4444 : ?

(a) 2222

(b) 1424

(c) 1242

(d) 2424

Answer: (a)

24. 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 : DM :: GO : ?

(a) ME

(b) LD

(c) EM

(d) DL

Answer: (b)

25. V, W, X, Y and Z are five men sitting in a line fac the South - while M, N, O, P and Q are five ladies sitting in a second line parallel to the lir nd are facing the North. W who is immediate next to the left of Y, is opposite Q. X and N are nally opposite to each other. Z is opposite to O who is immediate next to the right of M. P who is to the immediate left of Q, is opposite to Y. M is at one end of the line. Who is sitting opposite to N?

(a) W

(b) Y

(c) X

(d) V

Answer: (d)

Numerical Aptitude

2.

An 800-metre long train crosses a stationary pole in 15 seconds. What is the speed of the train?

(a)

192 km/h

(b)

156 km/h

(c)

174 km/h

(d)

210 km/h

Answer: (a)

3.

A shopkeeper earns a profit of 16% if he allows a discount of 20% on the marked price of an article. What will be the profit per cent earned by the shopkeeper if he sold the article at its marked price?

(a)

45%

(b)

35%

(c)

36%

(d)

55%

Answer: (a)

4.

आठ क्रमागत विषम संख्याओं का औसत 16 है। यदि दी गई आठ विषम संख्याओं में से सबसे छोटी से ठीक पहले वाली विषम संख्या को भी शामिल कर लिया जाए, तो नया औसत कितना होगा?

(a)

15

(b)

14

(c)

9

(d)

13

Answer: (a)

5.

If $P : Q = 2 : 7$, then what is the value of $(Q - P) : (Q + P)$?

(a)

$2 : 3$

(b)

$5 : 9$

(c)

$6 : 7$

(d)

$5 : 6$

Answer: (b)

6.

The following table shows the number of males and the number of females in three different housing societies in a city.

Society Name	Male	Female
Society X	180	112
Society y	210	240
Society Z	110	208

What is the difference between the total number of females and the total number of males in all the three societies taken together?

(a)

50

(b)

58

(c)

60

(d)

48

Answer: (c)

7.

The volume of a cuboid is 3600 cm^3. If the length and the breadth of the cuboid are 20 cm and 12 cm, respectively, then what is the height of this cuboid?

(a)

18 cm

(b)

14 cm

(c)

16 cm

(d)

15 cm

Answer: (d)

9.

What is the greatest number which divides each of 150, 270 and 180 exactly?

(a)

50

(b)

30

(c)

10

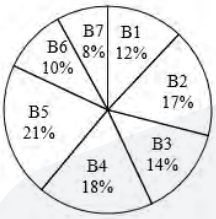
(d)

3

Answer: (b)

10.

The following pie chart shows the amount of loan given by each of seven different banks as a percentage of the total loan given by these 7 banks taken together.



What will be the angle made by the sector B2?

(a)

64.2°

(b)

58.2°

(c)

61.2°

(d)

67.2°

Answer: (c)

11.

8 men can make 12 chairs in 12 days if they work for 6 hours a day. If 9 chairs are to be make by 12 men in 6 days, then how many hours a day does each one of them need to work?

(a)

7.5 hours

(b)

6 hours

(c)

5.5 hours

(d)

7 hours

Answer: (b)

12.

What will be the compound interest on a sum of ₹4,50,000 at the rate of 10% per annum in 2 years, if interest is compounded annually?

(a)

₹50,500

(b)

₹94,500

(c)

₹54,450

(d)

₹85,450

Answer: (b)

13.

The total surface area of a closed hemisphere is 16632 cm^2. What is the sum of the radius and the diameter of this hemisphere? [Use $\pi = \frac{22}{7}$]

(a)

172 cm

(b)

168 cm

(c)

126 cm

(d)

154 cm

Answer: (c)

14.

In university exams where the total maximum marks were 500, Mohit gets 20% more than Surendra, Surendra gets 20% more than Lalit, and Lalit gets 15% less than Darshan. If Mohit gets 366 marks, what percentage of the full marks does Darshan get? [Give your answer correct to 2 decimal places.]

(a)

82.50%

(b)

59.80%

(c)

58.02%

(d)

80.50%

Answer: (b)

15.

A 36 cm long, 22 cm broad, and 49 cm high cuboid is melted and moulded into a solid sphere. What will be the radius of this sphere? [Use $\pi = \frac{22}{7}$]

(a)

21 cm

(b)

7 cm

(c)

49 cm

(d)

22 cm

Answer: (a)

16.

Rahul and Shyam, working together, can do a piece of work in 5 hours; Rahul alone can do the same work in 15 hours. How much time will Shyam alone take to do that work?

(a)

12 hours

(b)

8.5 hours

(c)

7.5 hours

(d)

15 hours

Answer: (c)

17.

Abhishek climbs up a hill at a speed of 3 mi/h and comes down at a speed of 5 mi/h. If the total time taken for the two-way journey is 10 hours, then what is the distance between the hilltop and the foothill?

(a)

20.75 mi

(b)

18.75 mi

(c)

11.25 mi

(d)

37.5 mi

Answer: (b)

18.

What is the value of $\frac{17+8\div4\times3}{18+4\div2\times5}$?

(a)

$\frac{25}{26}$

(b)

$\frac{23}{28}$

(c)

$\frac{33}{26}$

(d)

$\frac{35}{41}$

Answer: (b)

21.

Simple interest on a certain sum is $\frac{54}{75}$ of the sum. What is the rate of interest per annum if the value of the rate of interest per annum is half the time period (in years) of investment?

(a)

6.5%

(b)

6%

(c)

7.5%

(d)

7%

Answer: (b)

22.

The average of 10 numbers is 37. If each number is decreased by 2, what will be the new average?

(a)

37

(b)

35

(c)

39

(d)

32

Answer: (b)

23.

The cost price of a watch is ₹2,800. A shopkeeper sells it at a gain of 3.75%. What is the selling price of the watch?

(a)

₹2,885

(b)

₹2,905

(c)

₹2,925

(d)

₹2,875

Answer: (b)

24.

60% of the cost price of a glass is 25% of its selling price. What is the profit percentage?

(a)

120%

(b)

180%

(c)

95%

(d)

140%

Answer: (d)

25.

If $A = \frac{4 \div 8 \times 2}{3 + 14 \div 7}$ and $B = \frac{6 \div 2 - 4}{5 \div 15 \times 6}$, then what is the value of $A - B$?

(a)

$\frac{2}{3}$

(b)

$\frac{4}{5}$

(c)

$\frac{7}{10}$

(d)

$\frac{1}{2}$

Answer: (c)

General Awareness

1. Who among the following won the Formula One 2022 Saudi Arabian Grand Prix?

(a) Max Verstappen

(b) Charles Leclerc

(c) Sebastian Vettel

(d) Lewis Hamilton

Answer: (a)

2. Which of the following awards has been conferred upon Kailash Kher?

(a) Padma Bhushan
(b) Bharat Ratna
(c) Padma Shri
(d) Padma Vibhushan

Answer: (c)

3. When tax collection exceeds the required expenditure, the budget is said to be in _____.

(a) deficit
(b) surplus
(c) economic spread
(d) balance

Answer: (b)

4. Lactic acid is commonly found in _____.

(a) tomatoes
(b) milk
(c) vinegar
(d) cumin

Answer: (b)

6. Which Act passed by British Government of India a[illegible]shed the Council of India?

(a) Indian Independence Act of 1947
(b) India Council Act of 1892
(c) Government of India Act of 1935
(d) Charter Act of 1853

Answer: (c)

7. As per Thermodynamics, _____ system cannot exchange both energy and mass with its surroundings.

(a) artificial
(b) isolated
(c) open
(d) closed

Answer: (b)

8. According to the data from the economic think-tank, the Centre for Monitoring Indian Economy (CMIE), which of the following states witnessed the lowest unemployment rate as of January 2022?

(a) Telangana
(b) Andhra Pradesh
(c) Kerala
(d) Haryana

Answer: (a)

12. Which of the following animals is warm blooded?

(a) Butterfly
(b) pigeon
(c) Frog
(d) Cat

Answer: (d)

13. Baishagu festival is associated with the state of _____ in India.

(a) Assam
(b) Arunachal Pradesh
(c) Bihar
(d) Manipur

Answer: (a)

14. Raut nacha is performed by mostly tribals of a state of India. Which of the following states is it?

(a) Karnataka
(b) Chhattisgarh
(c) Meghalaya
(d) Bihar

Answer: (b)

16. Who among the following Indian choreographers won the World Choreography Award 2020 and was also nominated for the Emmy Awards?

(a) Prabhu Deva
(b) Pandit Birju Maharaj
(c) Saroj Khan
(d) Suresh Mukund

Answer: (d)

18. Who among the following actresses received the TIME 100 Impact Awards 2022?

(a) Deepika Padukone
(b) Kajal Aggarwal
(c) Priyanka Chopra
(d) Vidya Balan

Answer: (a)

19. Inamgaon, an important Archaeological site is situated on _____ river.

(a) Indrayani
(b) Ulhas
(c) Ghod
(d) Kukadi

Answer: (c)

20. What is the height of the goal-post according to FIFA?
    (a) 6 foot
    (b) 8 foot
    (c) 10 foot
    (d) 12 foot
    Answer: (b)

21. Who wrote the book 'The Legend of Lakshmi Prasad'?
    (a) Twinkle Khanna
    (b) Karishma Kapoor
    (c) Kajol
    (d) Raveena Tandon
    Answer: (a)

22. _____ is also known as industrial agriculture.
    (a) Intensive farming
    (b) Plantation agriculture
    (c) Subsistence farming
    (d) Shifting agriculture
    Answer: (a)

23. _____ has often been called the incubator of stern civilisation.
    (a) Red Sea
    (b) Caspian Sea
    (c) Mediterranean Sea
    (d) Black Sea
    Answer: (c)

24. _____ was the capital of Chalukya dynasty.
    (a) Badami
    (b) Kanchepuram
    (c) Pataliputra
    (d) Rajgir
    Answer: (a)

25. Bharhut Stupa depict the Jataka tales and stories. It is located in which of the following states?
    (a) Bihar
    (b) Madhya Pradesh
    (c) Andhra Pradesh
    (d) Uttar Pradesh
    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	**(c)**	3	**(b)**	4	**(d)**	5	**(a)**	6	**(a)**
7	**(b)**	8	**(c)**	9	**(b)**	10	**(b)**	11	**(c)**	12	**(a)**
13	**(a)**	14	**(d)**	15	**(d)**	16	**(b)**	17	**(c)**	18	**(b)**
19	**(b)**	20	**(c)**	21	**(b)**	22	**(a)**	23	**(c)**	24	**(d)**
25	**(d)**										

General Intelligence and Reasoning

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

Numerical Aptitude

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

General Awareness

1	**(a)**	2	**(c)**	3	**(b)**	4	**(b)**	6	**(c)**	7	**(b)**
8	**(a)**	12	**(d)**	13	**(a)**	14	**(b)**	16	**(d)**	18	**(a)**
[illegible]	**(c)**	20	**(b)**	21	**(a)**	22	**(a)**	23	**(c)**	24	**(a)**
25	**(b)**										