PREVIOUS YEAR PAPER

SSC MTS 2023 — 12 September 2023, Shift 2

SSC MTS & Havaldar · 12 September 2023 · 12:30 PM - 2:30 PM

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

Left out of the original paper: 13 (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).

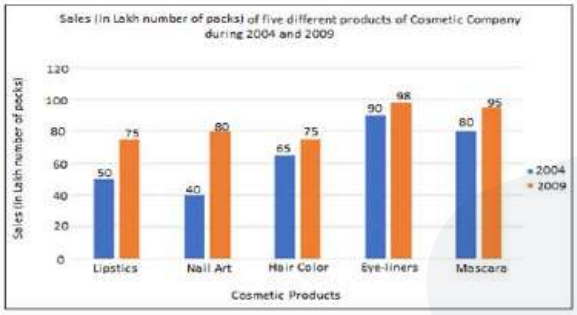
Questions from the Staff Selection Commission's paper of 12 September 2023, 12:30 PM - 2:30 PM. Each question is followed by its answer, and the answer key is repeated on the last page.

Take it as a timed practice test: exambharo.com/ssc-mts/previous-year-papers/ssc-mts-2023-12-sep-shift-2/

Numerical and Mathematical Ability

1.

निम्नलिखित दंड आलेख में 2004 और 2009 के बीच एक कंपनी द्वारा पांच कॉस्मेटिक उत्पादों की बिक्री को (पैक की लाख संख्या में) दर्शाया गया है। दंड आलेख का अध्ययन कीजिए और उसके आधार पर प्रश्न का उत्तर दीजिए।



संदर्भ: Sales (in lakh number of packs) of five different products [illegible] Cosmetic company during 2004 and 2009 = 2004 और 2009 के दौरान कॉस्मेटिक कंपनी वे [illegible] ग उत्पादों की बिक्री (पैक की लाख संख्या में), Sales (in lakh number of packs) = बिक्री (पैक क[illegible] या में), Cosmetic products = कॉस्मेटिक उत्पाद, Lipstics - लिपस्टिक, Nail Art - नैल आर्ट, Hair color - हैयर कलर, Eye-liners - आइ लाइनर, Mascara - मसकारा

2004 की तुलना में 2009 में सभी कॉस्मेटिक उत्पादों की मिलाकर औसत बिक्री में प्रतिशत वृद्धि (निकटतम पूर्णांक तक सन्निकटित) कितनी है?

(a)
36%

(b)
30%

(c)
28%

(d)
33%

Answer: (b)

2.

What is the value of $\frac{\left[\frac{1}{5}\div\frac{1}{5}\times\frac{1}{5}\right]\times\frac{1}{5}}{\left[\frac{1}{9}+\frac{1}{9}\times\frac{1}{9}\right]\times\frac{1}{10}}+\left(1-\frac{6}{25}\right)=?$

(a)

2

(b)

1

(c)

3

(d)

4

Answer: (d)

3.

The average score of 22 players in an IPL match is 72. Out of these 22 players, the average score of 10 players is 80, the next 5 players got an average score of 75 and the rest 5 players got an average of 55. Then the average score of the remaining two players is:

(a)

65

(b)

67

(c)

72

(d)

80

Answer: (b)

6.

A and B can do a piece of work in 18 and 36 days, respectively. They start working together but A leaves after 3 days. How much time will B take to complete the remaining work?

(a)

22 days

(b)

24 days

(c)

30 days

(d)

27 days

Answer: (d)

7.

जब x = 1 होता है तो y, x + 3 और y = 8 के अनुक्रमानुपाती होता है। जब z = 6 होता है तो x, z और x = 2 के व्युत्क्रमानुपाती होता है। y और z के बीच संबंध ज्ञात कीजिए।

(a)

$(y - 6)/z = 24$

(b)

$(y - 6)/z = 12$

(c)

$z\,(y - 6) = 12$

(d)

$z\,(y - 6) = 24$

Answer: (d)

8.

Sandeep drives a distance of 500 metres to a store in 175 seconds. Then he drives 400 metres to another store in 125 seconds. What is his average speed (in m/s)?

(a)

3.5

(b)

3

(c)

2

(d)

2.5

Answer: (b)

10.

Two places A and B are 60 km apart from each other on a highway. A car starts from A and another car from B at the same time. If they move in the same direction, they meet each other in 6 hours. If they move in the opposite direction towards each other, they meet in 1 hour 30 minutes. Find the speeds of the cars (in km/h).

(a)

15, 18

(b)

15, 20

(c)

25, 15

(d)

25, 20

Answer: (c)

14.

By selling at a loss of 12% instead of a loss of 18% an article sells for ₹120 more. Find its CP.

(a)

₹ 2,100

(b)

₹ 2,000

(c)

₹ 1,500

(d)

₹ 1,800

Answer: (b)

16.

The ratio of number of students in schools A and B is 5 : 8. If the number of students in schools A and B is increased by 20% and 15%, respectively, find the new ratio of students in schools A and B, respectively.

(a)

15 : 23

(b)

15 : 13

(c)

13 : 15

(d)

12 : 13

Answer: (a)

17. Study the following table carefully and answer the question that follows. The table shows the total production (in thousands) of Company 1, Company 2, Company 3 and Company 4 in four different years.

Year	Total production of Company 1	Total production of Company 2	Total production of Company 3	Total production of Company 4
2019	65	76	64	76
2020	88	85	72	68
2021	84	75	68	96
2022	71	84	76	72

Which company has the maximum average of production from the year 2019 to 2022?

(a) Company 2

(b) Company 4

(c) Company 1

(d) Company 3

Answer: (a)

18.

Working 6 hours a day, 15 persons can complete a certain work in 26 days ow many days would 13 persons complete the same work, working 10 hours a day?

(a)

17

(b)

15

(c)

20

(d)

18

Answer: (d)

20.

A bank offers compound interest at the rate 5% per annum calculated half yearly on its deposits. A customer deposits ₹2,400 each on 1st January and 1st July of a year. Find the amount he received at the end of the year.

(a)

₹180.50

(b)

₹4,981.50

(c)

₹181.50

(d)

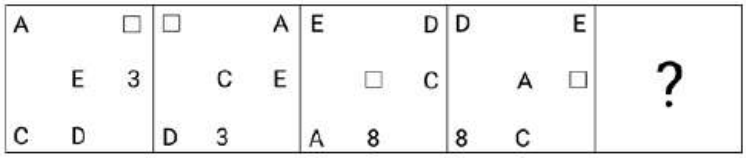
₹4,081.50

Answer: (b)

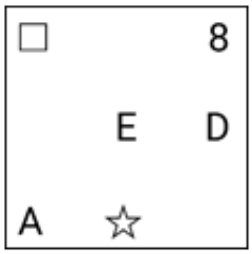
Reasoning Ability and Problem Solving

1.

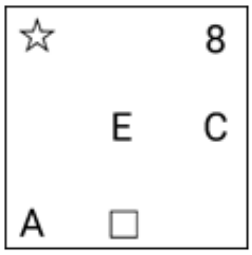
Which figure should replace the question mark (?) if the following figure series were to be continued?



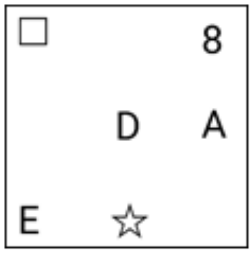
(a)



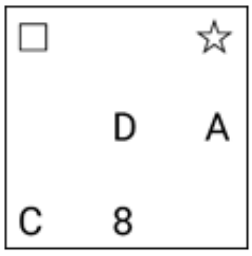
(b)



(c)



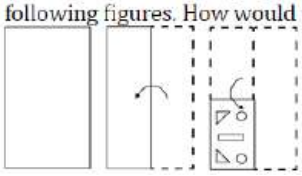
(d)



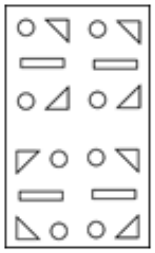
Answer: (c)

2.

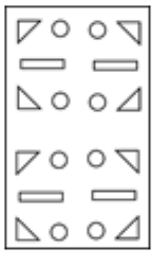
The sequence of folding a piece of paper and the manner in which the folded paper is cut is shown in the following figures. How would this paper look when unfolded?



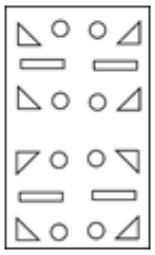
(a)



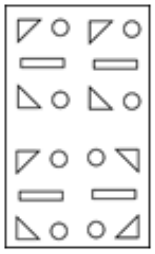
(b)



(c)



(d)



Answer: (b)

3.

In a certain code language, 'DROP' is coded as '9375' and 'POND' is coded as '7839'. What is the code for 'N' in the given code language?

(a)

3

(b)

7

(c)

8

(d)

9

Answer: (c)

5.

If 4 December 1987 is a Friday, then what will be the day of the week on 12 December 2009?

(a)

Sunday

(b)

Friday

(c)

Wednesday

(d)

Saturday

Answer: (d)

6.

Ranjan, Pari, Yash, Charu, Reetu and Gunjan are sitting around a circular table facing the centre.
Ranjan sits 3rd to the left of Pari. Yash sits 2nd to the left of Ranjan. Charu sits 2nd to the right of Ranjan. Reetu is an immediate neighbour of Charu.
Who sits 2nd to the right of Pari?

(a)

Yash

(b)

Reetu

(c)

Gunjan

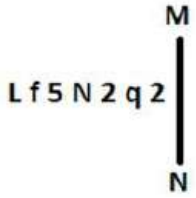
(d)

Charu

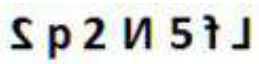
Answer: (c)

7.

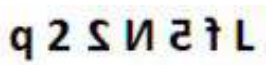
Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



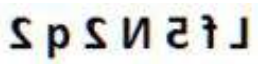
(a)



(b)



(c)



(d)



Answer: (c)

8.

What should come in place of '?' in the give eries?

8 27 84 255 768 ?

(a)

2235

(b)

2297

(c)

2307

(d)

2271

Answer: (c)

9.

Read the given statement(s) 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 statement(s).
Statements: Some cows are crows. Some crows are elephants.
Conclusions:
(I) Some cows are elephants.
(II) All crows are elephants.

(a)
Only conclusion (I) is follows.

(b)
Neither conclusion (I) nor (II) is follows.

(c)
Only conclusion (II) is follows.

(d)
Both conclusions (I) and (II) are follows.

Answer: (b)

10.

What should come in place of ? in the given series?

108 103 98 93 88 ?

(a)
82

(b)
83

(c)
84

(d)
81

Answer: (b)

11.

If 'A' stands for '÷', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?
27 B 3 C (54 A 2) B 5 D 55 = ?

(a)
161
(b)
167
(c)
153
(d)
159

Answer: (a)

12.

What should come in place of ? in the given series?

227 226 218 191 127 ?

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

Answer: (c)

14.

What should come in place of ? in the given series based on the English alphabetical order?

BPR, FRV, JTZ, NVD, ?

(a)
QYG
(b)
SXI
(c)
QXG
(d)
RXH

Answer: (d)

15.

What should come in place of ? in the given series based on the English alphabetical order?

ZKP, DHR, HET, LBV, ?

(a)

PYX

(b)

QZY

(c)

RYX

(d)

QYZ

Answer: (a)

17.

Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically follow/s from the given statements.

Statements: Some alphabets are chairs. Some chairs are high. All high are buildings.

Conclusion I: Some alphabets are buildings.

Conclusion II: Some high are buildings.

(a)

Only conclusion (II) is follow.

(b)

Only conclusion (I) is follow.

(c)

Both conclusions (I) and (II) are follow.

(d)

Neither conclusion (I) nor (II) is follow.

Answer: (a)

18.

What should come in place of ? in the given series based on the English alphabetical order?

JVC, LXD, NZE, PBF, ?

(a)

QCF

(b)

RDG

(c)

SCH

(d)

QDH

Answer: (b)

19.

In a certain code language, 'CRAFT' is coded as 'DSBGU' and 'FRIDAY' is coded as 'GSJEBZ'. What is the code for 'MANGO' in the given code language?

(a)

NBOHP

(b)

MBPGQ

(c)

NCOGQ

(d)

MCOGP

Answer: (a)

20.

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

$83 + 17 \div 4 - 64 \times 16 = ?$

(a)

29

(b)

9

(c)

19

(d)

18

Answer: (c)

General Awareness

1. How many countries participated in the FIFA U-17 Women's World Cup 2022?
   (a) 18
   (b) 14
   (c) 16
   (d) 12
   Answer: (c)

2. 'Wings of Fire' is the autobiography of a former president of India. Who is he?
   (a) Shankar Dayal Sharma
   (b) APJ Abdul Kalam
   (c) Zakir Hussain
   (d) VV Giri
   Answer: (b)

3. In which of the following states is the Statue of Unity situated?
   (a) Gujarat
   (b) Rajasthan
   (c) Maharashtra
   (d) Punjab
   Answer: (a)

4. When was the Defence of India Act enacted?
   (a) 1920
   (b) 1918
   (c) 1915
   (d) 1921
   Answer: (c)

5. Which festival brings out the fusion rich culture of Chhattisgarh and Odisha?
   (a) Rath Yatra
   (b) Bastar Goncha
   (c) Shoolini fair
   (d) Madhavpur fair
   Answer: (b)

6. Which flag of the Indian National Congress was adopted in 1931?
   (a) A two colour flag with charkha made by cloth
   (b) A tricolour flag made by Khadi with a Charkha symbol
   (c) One colour flag with charkha symbol
   (d) A blue colour flag made by cloth
   Answer: (b)

7.

Among the following pairs, which ones denote two scalar quantities?

(a)

Momentum and Angular velocity

(b)

Distance and Speed

(c)

Linear momentum and Acceleration

(d)

Electric field and Force

Answer: (b)

8.

Which of the following music directors won the Oscar award in the year 2009?

(a)

Bappi Lahiri

(b)

AR Rahman

(c)

Vishal Bhardwaj

(d)

Rajesh Roshan

Answer: (b)

9. Which of the following vitamins prevents major birth defects of the brain and spine of a newborn baby?

(a) Vitamin E

(b) Vitamin A

(c) Vitamin C

(d) Folic acid

Answer: (d)

10. In India, the National Sports Day is celebrated on which date?

(a) 6th December

(b) 29th August

(c) 1st September

(d) 14th November

Answer: (b)

11.

Who among the following was the founding member of Sri Sai Nataraja Academy of Kuchipudi that offers training and higher studies in Kuchipudi?

(a)

P Ramadevi

(b)

Kaushalya Reddy

(c)

Yamini Krishnamurthy

(d)

Aparna Satheesan

Answer: (a)

12. Which of the following playback singers of India received the Padma Shri in 2009 and Padma Bhushan in 2016?

(a) Sonu Nigam

(b) Abhijit Bhattacharya

(c) Kumar Sanu Bhattacharjee

(d) Udit Narayan Jha

Answer: (d)

13. When the 'trans-boundary economic activities' o ı economy and depreciation are included into account, the aggregate measure is known as _ _____.

(a) GNP

(b) NNP

(c) PCI

(d) GDP

Answer: (a)

14. Tamil Nadu's _____ marked a national record in men's long jump in the second AFI National Jumps Competition in March 2023.

(a) Suresh Babu

(b) Anees Yahiya

(c) Murali Sreeshankar

(d) Jeswin Aldrin

Answer: (d)

16. Which mountain range from the following is associated with Rajasthan state?

(a) Satpura Range

(b) Sahyadri Range

(c) Aravalli Range

(d) Vindhya Range

Answer: (c)

17. According to the National Multidimensional Poverty Index 2021, which state has the lowest percentage of population being multidimensionally poor?

(a) Kerala
(b) Uttar Pradesh
(c) Madhya Pradesh
(d) Rajasthan

Answer: (a)

18. Which of the following represents disposable income?

(a) The income earned by individuals and households after taxes and other deductions
(b) The total income earned by businesses and corporations in an economy
(c) The income earned by individuals through their own business or self-employment
(d) The total income earned by individuals and households before taxes and other deductions

Answer: (a)

19. Which of the following states receives rainfall during the winter season?

(a) Tamil Nadu
(b) Jharkhand
(c) Maharashtra
(d) Rajasthan

Answer: (a)

20.

Who among the following is the author of the ok 'Revolution 2020'?

(a)
Chetan Bhagat
(b)
Omair Ahmad
(c)
Siddhartha Sarma
(d)
Joy Goswami

Answer: (a)

21. Who was our first Prime Minister?

(a) Rajendra Prasad
(b) Indira Gandhi
(c) Jawaharlal Nehru
(d) Gulzarilal Nanda

Answer: (c)

22. Which state is ranked fourth in India according to the first Multidimensional Poverty Index (MPI) 2021 report of the NITI Aayog?

(a) Meghalaya
(b) Madhya Pradesh
(c) Assam
(d) Himachal Pradesh

Answer: (b)

23. Which Schedule of the Indian Constitution deals with the division of powers between the Union and the states?

(a) 9th
(b) 7th
(c) 5th
(d) 2nd

Answer: (b)

25. Renowned _____ folk dance artist Domar Singh Kunwar, who has dedicated his life to preserving the tradition of the dance for over five decades, was awarded the Padma Shri 2023.

(a) Pandwani
(b) Raut Nacha
(c) Natya Nacha
(d) Soowa

Answer: (c)

English Language and Comprehe

1. Select the most appropriate meaning of the given idiom. Beat around the bush

(a) To avoid talking about what is important
(b) To talk about important things
(c) To have patience
(d) To avoid people

Answer: (a)

2. Select the option that can be used as a one-word substitute for the given group of words. A person who is kept captive for fulfilment of demands of money or conditions.

(a) Doyen
(b) Bait
(c) Hostage
(d) Scion

Answer: (c)

3. Select the most appropriate synonym of the given word. Peril

(a) Danger

(b) Entertainment

(c) Joke

(d) Ignorance

Answer: (a)

4. There is a spelling error in the given sentence. Select the option that contains the INCORRECTLY spelt word. As per manager's opinion, the laser sprinkler malfuntioned.

(a) malfuntioned

(b) sprinkler

(c) laser

(d) opinion

Answer: (a)

5. Select the most appropriate ANTONYM of the given word. Amiable

(a) Restless

(b) Unfriendly

(c) Sad

(d) Joyful

Answer: (b)

6. Select the most appropriate idiom to fill in the blar Rahul speaks easily in front of a small group, but he seems _____ before a large audience.

(a) ill at ease

(b) think ill of

(c) man of ill repute

(d) ill-disposed to

Answer: (a)

7. Select the most appropriate idiom for the following sentence. He made the business profitable from unprofitable in about a year of joining.

(a) Easy come, easy go

(b) Throw up

(c) Where there is a will, there is a way

(d) Still waters run deep

Answer: (c)

8. Parts of the following sentence have been underlined and given as options. Select the option that contains a misspelt word. Obesity is rapidly becoming the leading cause of prevantable deaths in the United States.

(a) rapidly
(b) leading
(c) obesity
(d) prevantable

Answer: (d)

9. Identify and correct the INCORRECTLY spelt word in the given sentence. Sliding each bead from one side to the other, the student used the abacus to count out the nember of days in a week.

(a) beed
(b) number
(c) Slaiding
(d) abacuss

Answer: (b)

10. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement required'. Very early in the morning, at the beginning of January, Opu was lying in bed waiting for the sun having rose.

(a) waited for the sun rising
(b) waited for the sun having rose
(c) No improvement required
(d) waiting for the sun to rise

Answer: (d)

11. Choose the sentence that contains an error.

(a) I love the taste of fresh strawberries in the summer.
(b) She is the winner of the Nobel Peace Prize.
(c) He is chef who specialises in Italian cuisine.
(d) The Earth revolves around the Sun.

Answer: (c)

12. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No improvement required'. Newton, after seeing the apple falling from a tree, began to wonder whether if it moved towards the earth and not upwards towards the sky.

(a) No improvement required
(b) began to wondering if
(c) began his wondering how
(d) began to wonder why

Answer: (d)

13. Select the most appropriate option that can substitute the underlined word in the following sentence. They serve stuffed garlic bread and molten chocolate in the birthday party of their son, Parth, last week.

(a) served
(b) serves
(c) are serving
(d) be served

Answer: (a)

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

(a) Passive
(b) Kind
(c) Gentle
(d) Spiteful

Answer: (d)

15. Select the most appropriate meaning of the underlined segment in the given sentence. I can't believe you let the cat out of the bag about my surprise party!

(a) Ask a question
(b) Reveal a secret
(c) Keep a secret
(d) Make a joke

Answer: (b)

16. Select the option that can be used as a one-word substitute for the given group of words. Endless period of time

(a) Eternity
(b) Longevity
(c) Impurity
(d) Frailty

Answer: (a)

17. Parts of the given sentence have been underlined. One of them contains an error. The underlined parts are given as options with some changes. Select the option that correctly rectifies the error. Sohan is the older brother of my best friend.

(a) to my
(b) an
(c) elder
(d) good

Answer: (c)

18. Parts of the following sentence have been underlined and given as options. Select the option that contains an error. We think of the past history of the world as fixed but of the future as undecided and open to a wealth off possibilities.

(a) of the past
(b) as undecided
(c) as fixed
(d) wealth off

Answer: (d)

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

My teacher told me that / all that / glitters was not gold.

(a) My teacher told me that
(b) all that
(c) glitters was not gold
(d) No error

Answer: (c)

20. Parts of the following sentence have been underlined and given as options. Select the option that contains an error. When I bought the book, I thought it will be interesting.

(a) When
(b) bought
(c) will
(d) thought

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. Education should be free to all because it is a (1)__ human right. It is essential for the (2)___ of a fully functioning society and for the advancement of humanity. While some argue that education should not be free because it has value or that free education would be a (3)__ on taxpayers, the reality is that education is a public good that (4)__ everyone in society. Not only does education provide individuals with the skills and knowledge they need to participate in the workforce, but it also improves social cohesion and creates more (5)__ citizens.

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

(a) lovely
(b) precious
(c) fundamental
(d) joyful

Answer: (c)

22. Select the most appropriate option to fill in blank number 2.
    (a) celebration
    (b) development
    (c) enthusiasm
    (d) distribution
    Answer: (b)

23. Select the most appropriate option to fill in blank number 3.
    (a) focus
    (b) contentment
    (c) burden
    (d) blessing
    Answer: (c)

24. Select the most appropriate option to fill in blank number 4.
    (a) sections
    (b) emphasises
    (c) burdens
    (d) benefits
    Answer: (d)

25. Select the most appropriate option to fill in blank number 5.
    (a) easy going
    (b) apprehensive
    (c) productive
    (d) authentic
    Answer: (c)

Answer key

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

Numerical and Mathematical Ability

1	**(b)**	2	**(d)**	3	**(b)**	6	**(d)**	7	**(d)**	8	**(b)**	10	**(c)**	14	**(b)**
16	**(a)**	17	**(a)**	18	**(d)**	20	**(b)**								

Reasoning Ability and Problem Solving

1	**(c)**	2	**(b)**	3	**(c)**	5	**(d)**	6	**(c)**	7	**(c)**	8	**(c)**	9	**(b)**
10	**(b)**	11	**(a)**	12	**(c)**	14	**(d)**	15	**(a)**	17	**(a)**	18	**(b)**	19	**(a)**
20	**(c)**														

General Awareness

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

English Language and Comprehension

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