



सीएसआईआर-संरचनात्मक अभियांत्रिकी अनुसंधान केन्द्र
CSIR-STRUCTURAL ENGINEERING RESEARCH CENTRE
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्
Council of Scientific and Industrial Research)
सीएसआईआर रोड CSIR Road, तरमणि Taramani, चेन्नै Chennai

No. A1(609)87-Rct.

Dated: 19th July 2025

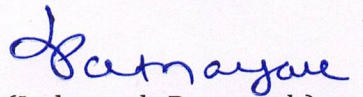
NOTIFICATION

Sub: Question Paper and Answer keys & Challenge of Answer Keys in Competitive Written Examination (CWE) held on 18-07-2025 for the Post of Driver against CSIR-SERC Advt. No. SE-1/2021-reg.

This is for information of all candidates who appeared in the above Examination held on 18-07-2025 in CSIR-SERC that the Question paper and Answer keys are attached. Candidates may raise challenge(s), if any, against answer keys of questions on or before **21.07.2025 23:59 hrs.** Candidates are required to send the challenge by email only to admoff@serc.res.in. The key challenge should contain Question No. and adequate justification for the answer with the Name and Roll Number of the candidate and scanned copy of CWE admit card as attachment.

Challenges made by the candidate will be verified by the Competent Authority and if found correct, the answer key will be corrected accordingly. Based on verified Final Answer Key, the result will be prepared. No individual candidate will be informed about the acceptance/non-acceptance of his/her challenge. No grievance with regard to answer key(s) after declaration of result will be entertained.

Key challenges received after 21.07.2025 23:59 hrs. and by any other mode will not be considered.


(Lokanath Patnayak)
Administrative Officer
19.07.25

Encl. Question Paper & Answer key



सी एस आई आर - संरचनात्मक अभियांत्रिकी अनुसंधान केंद्र
CSIR-STRUCTURAL ENGINEERING RESEARCH CENTRE
सी एस आई आर रोड CSIR ROAD, तरमणी TARAMANI, चेन्नै CHENNAI 600 113

Booklet No. : DSE1210012

ROLL NO.

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Competitive Written Examination for Recruitment to the post of Driver
in CSIR-SERC against Advertisement No.SE-1/2021

Total Time Allowed: 90 Minutes

Total Marks : 300

Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS

- Candidate will be supplied with Question Booklet 10 minutes before commencement of the Competitive Written Examination.
- The Competitive Written Examination has the following paper :

Subject	No. of Questions	Maximum Marks	Negative Marks
General Intelligence	25	75 (Three marks for every correct answer)	One negative mark for every wrong answer
Quantitative Aptitude	25	75 (Three marks for every correct answer)	One negative mark for every wrong answer
General Awareness	25	75 (Three marks for every correct answer)	One negative mark for every wrong answer
English Language	25	75 (Three marks for every correct answer)	One negative mark for every wrong answer

- Medium of questions English, Hindi & Tamil except the questions on English Language
- Question Papers and OMR Answer Sheets will have to be returned to Invigilator after end of Examination
- No candidates will be allowed to leave the Examination Hall before completion of examination.
- Prior to attempting answer, candidates are requested to check whether all the questions are there in series and ensure there are no blank pages in the Question Booklet. **In case any defect in the Question Booklet is noticed, it shall be reported to the Invigilator immediately and get it replaced with a complete Question Booklet.**
- Candidate must write their Roll No. in the space provided on the top right side of this page. Do not write anything else on the Question Booklet.
- Each question comprises four responses (A), (B), (C) and (D). Candidates are to select ONLY ONE correct response and mark in the OMR Answer Sheet. The total marks will depend on the number of correct responses marked by the Candidate minus negative marking in the Answer Sheet.
- In the OMR Answer Sheet there are four circles (A), (B), (C) and (D) against each question. To answer the questions candidates are to mark with Blue or Black ink Ball point pen ONLY ONE circle for each question. If more than one answer for one question is circled, the answer will be treated as wrong. e.g. If for any item, (B) is the correct answer, candidate have to mark as follows :
(A) (B) (C) (D)
- Candidates should not remove or tear off any sheet from this Question Booklet. candidates are not allowed to take the Question Booklet and the Answer Sheet out of the Examination Hall.
- Do not make any marking in the Question Booklet except in the sheet(s) at the last page of the Question Booklet, which can be used for rough work.**
- In all matters and in cases of doubt, the English version shall be final.
- Failure to comply with any of the above instructions will render the candidate liable to such action or penalty as may be decided by the Competent Authority, CSIR-SERC.
- I have read the instructions given above and the instruction given in the SERC website www.serc.res.in and agree to the same.

Invigilator's Signature

Candidate's Signature with date

**EXAMINATION FOR THE POST OF DRIVER
QUESTION PAPER**

GENERAL INTELLIGENCE

1. M is the son of P. Q is the granddaughter of O, who is the husband of P. How is M related to O?
(A) Son
(B) Daughter
(C) Mother
(D) Father

2. Which number is wrong in the given series?
1, 9, 25, 50, 81
(A) 1
(B) 25
(C) 50
(D) 81

3. $6 : 64 :: 11 : ?$
(A) 144
(B) 169
(C) 121
(D) 124

4. Which one does not belong to the group?
(A) Badminton
(B) Cricket
(C) Volley ball
(D) Chess

5. Which number does not belong to the group?
(A) 3
(B) 5
(C) 9
(D) 13

6. Moon : Satellite :: Earth : ?
(A) Solar System
(B) Planet
(C) Sun
(D) Asteroid

7. $CG : EI :: FJ : ?$
(A) HL
(B) GK
(C) IJ
(D) LM
8. $14 : 9 :: 26 : ?$
(A) 12
(B) 13
(C) 15
(D) 31
9. If DOWN is coded as FQYP, then the word WITH will be coded as
(A) IJYK
(B) KYJV
(C) JKVY
(D) YKVJ
10. If ENGLAND is written as 123456 and FRANCE is written as 785291, how is GREECE coded?
(A) 381171
(B) 381191
(C) 835545
(D) 832252
11. Mahesh is facing South. Ramesh, walking towards Mahesh, stops, and turns to his right. He sees Rajesh standing before him; facing him. Which direction is Rajesh facing?
(A) West
(B) South
(C) East
(D) Data inadequate
12. The letters of the name of a vegetable are I, K, M, N, P, P, U. If the letters are rearranged correctly, and then what is the last letter of the word formed?
(A) M
(B) N
(C) K
(D) P
13. Radhika ranked 11th from the top and 27th from the bottom in a class. How many students are there in the class?
(A) 38
(B) 28
(C) 40
(D) 37

14. A is shorter than B but much taller than E. C is the tallest and D is a little shorter than A. Who is the shortest?

- (A) A
- (B) C
- (C) E
- (D) D

15. If 'P' means 'division', 'R' means 'multiplication', 'T' means 'addition' and 'W' means 'subtraction'; then what will be the value of the following expression?

60 T 48 P 8 W 6 R 9

- (A) 12
- (B) 22
- (C) 14
- (D) 24

16. If 'A' stands for '+', 'B' stands for '-', 'C' stands for 'x'; the what will be the value of the following expression?

(10 C 4) A (4 C 4) B 6

- (A) 60
- (B) 56
- (C) 50
- (D) 46

17. Which one of the numbers is wrong in the series given below?

5, 10, 17, 24, 37

- (A) 10
- (B) 17
- (C) 24
- (D) 37

18. Which one of the number does not belong to the series given below?

3, 5, 8, 11, 17, 23

- (A) 8
- (B) 11
- (C) 17
- (D) 23

19. Find the missing. AE, CG, EI, GK, ?

- (A) MI
- (B) IM
- (C) HM
- (D) IL

20. Find the missing term. 3F, 6G, 11I, 18L, ?
(A) 21O
(B) 25N
(C) 27P
(D) 27Q
21. If the two hands of a clock are 3 minutes divisions apart, then the angle between them is:
(A) 3°
(B) 18°
(C) 24°
(D) 60°
22. If 'w' is coded as 'a', 's' as 'r' and 'r' as 'w', how will 'answer' be written?
(A) wnsaes
(B) anraew
(C) anrwas
(D) wnraes
23. If CLOCK is coded as 34235 and TIME as 8679, what will be the code for MOLEK?
(A) 62495
(B) 62945
(C) 72495
(D) 72945
24. Doctor : Hospital :: Teacher : ?
(A) School
(B) Field
(C) Office
(D) House
25. Pen : Author :: Sword : ?
(A) Carpenter
(B) Farmer
(C) Tailor
(D) Warrior

QUANTITATIVE APTITUDE

26. Find the ten's digit in the expression $65^2 - 55^2$?
(A) 2
(B) 6
(C) 5
(D) 0

27. Which of the following fraction is greater than $\frac{1}{2}$ and less than $\frac{5}{9}$?

- (A) $\frac{2}{3}$
- (B) $\frac{5}{8}$
- (C) $\frac{4}{7}$
- (D) $\frac{6}{11}$

28. The total age of 5 men is 440. The total age of their wives is 385. The average age of their children is 22. What is the average age of each member of the family? (each couple have 3 children)

- (A) 56.2
- (B) 46.2
- (C) 44.5
- (D) 50.2

29. How many times 0.9 is greater than 0.003?

- (A) 300
- (B) 100
- (C) 133.33
- (D) 30

30. The shopkeeper sells an article for 600 rupees. If the profit is 20% of the cost price, find the profit.

- (A) 500 rupees
- (B) 250 rupees
- (C) 100 rupees
- (D) 120 rupees

31. 20% of a number is 12 find 35% of the same number.

- (A) 21
- (B) 18
- (C) 19
- (D) 17

32. Find 20% of 33.33% of 60% of 900.

- (A) 36
- (B) 37
- (C) 38
- (D) 39

33. 30% of a number is 21. What percent of the number is 49?

- (A) 50%
- (B) 65%
- (C) 70%
- (D) 72%

34. If $x+y=21$ and $xy=110$, find the value of x^2+y^2 .

- (A) 321
- (B) 331
- (C) 241
- (D) 221

35. If $X + Y = 174$, and X is half of Y , then find the value of X .

- (A) 58
- (B) 116
- (C) 57
- (D) 117

36. Find the difference of $15/4$ and its reciprocal.

- (A) $209/60$
- (B) $203/60$
- (C) $209/120$
- (D) $203/30$

37. If $a-16=b$, then determine the value of $|a-b|-|b-a|$.

- (A) 32
- (B) 0
- (C) 8
- (D) 4

38. The cost price of an article is 60% of its selling price. If the profit is 840 rupees, find the selling price.

- (A) 2000 rupees
- (B) 2100 rupees
- (C) 2300 rupees
- (D) 3000 rupees

39. The ratio of two numbers is 11 : 12. If the sum of the numbers is 253, find the difference between the numbers.

- (A) 21
- (B) 12
- (C) 11
- (D) 10

40. 64 men can do a piece of work in 90 days. Find the amount of work done by 95 men in 50 days.

- (A) 82%
- (B) 83%
- (C) 84%
- (D) 85%

41. 39 men can do a piece of work in 9 days. Find the time required by 13 men to do thrice the work.
- (A) 27 days
 - (B) 54 days
 - (C) 81 days
 - (D) 729 days
42. 23 men can do a piece of work in 68 days. Find the time taken by 17 men to complete the same work.
- (A) 78 days
 - (B) 92 days
 - (C) 108 days
 - (D) 120 days
43. A man travelled first half of his journey at a speed of 60 kmph and the second half of his journey at a speed of 40 kmph. Find the average speed of the man.
- (A) 55 kmph
 - (B) 57.5kmph
 - (C) 50kmph
 - (D) 52.5kmph
44. A man travels 60 km at a speed of 20 kmph 70 km at a speed of 120 kmph and 50 km at a speed of 35 kmph. Find the time taken throughout the journey.
- (A) 4 hours
 - (B) 4.5 hours
 - (C) 5 hours
 - (D) 5.5 hours
45. A train 150 m in length passes a man in 12 seconds. Find the speed of the train.
- (A) 40 kmph
 - (B) 45kmph
 - (C) 50 kmph
 - (D) 55kmph
46. A man travels at a speed of 55 kmph for 1 hour and 75 kmph for 7 hours. Find his average speed.
- (A) 72.5 kmph
 - (B) 75 kmph
 - (C) 77.5 kmph
 - (D) 80 kmph

47. A man invested a sum of 98000 rupees for 14 years at $x\%$ simple interest. If the interest for 14 years is 400% of the amount invested, find the value of x .
- (A) 23.35
 - (B) 25.57
 - (C) 27.85
 - (D) 28.57
48. What will be the circumference of a circle in cm given its area is 40 cm^2 ?
- (A) 32.42 cm
 - (B) 25.68cm
 - (C) 22.37cm
 - (D) 30.00cm
49. If the perimeter and area of a square field are equal, then what will be the length of one of its side?
- (A) 4 units
 - (B) 16 units
 - (C) 2 units
 - (D) 12 units
50. Today is Wednesday. After 81 days, what will be the day?
- (A) Sunday
 - (B) Saturday
 - (C) Thursday
 - (D) Tuesday

GENERAL AWARENESS

51. Who is the 15th President of India?
- (A) Shri Ram Nath Kovind
 - (B) Smt. Droupadi Murmu
 - (C) Dr. A. P. J. Abdul Kalam
 - (D) Shri Narendra Modi
52. What do the three colors of the National Flag represent?
- (A) Unity, Peace, Progress
 - (B) Truth, Peace, Courage
 - (C) Love, Sacrifice, Honesty
 - (D) Faith, Valour, Wisdom

53. Who wrote the Indian National Song, "Vande Mataram"?

- (A) Rabindranath Tagore
- (B) Sarojini Naidu
- (C) Mohandas Karamchand Gandhi
- (D) Bankim Chandra Chatterjee

54. In which Indian City Jallianwala Bagh massacre took place?

- (A) Delhi
- (B) Amritsar
- (C) Mumbai
- (D) Kolkata

55. Who was the first female chief minister of India?

- (A) Sucheta Kripalani
- (B) J. Jayalalithaa
- (C) Mamata Banerjee
- (D) Shashikala Kakodkar

56. Which is the capital of Assam?

- (A) Itanagar
- (B) Dispur
- (C) Imphal
- (D) Shilong

57. Who invented the first successful aeroplane?

- (A) Carl Benz
- (B) Charles Babbage
- (C) Wright brothers
- (D) Alexander Graham Bell

58. Which is the smallest ocean in the world?

- (A) Pacific Ocean
- (B) Atlantic Ocean
- (C) Indian Ocean
- (D) Arctic Ocean

59. Why do stars twinkle?

- (A) Because of the phenomenon of refraction of light, stars twinkle.
- (B) Because of the phenomenon of reflection of light, stars twinkle.
- (C) Because of the phenomenon of day and night, stars twinkle.
- (D) Because of the phenomenon of movement of earth and star, stars twinkle.

60. Which is the largest planet in our solar system?
- (A) Earth
 - (B) Saturn
 - (C) Jupiter
 - (D) Pluto
61. Which is the only metal that is liquid at room temperature?
- (A) Mercury
 - (B) Zinc
 - (C) Boron
 - (D) White metal
62. Which instrument is used to measure earthquakes?
- (A) Richter scale
 - (B) Barometer
 - (C) Anemometer
 - (D) Seismograph
63. The huge wave caused in the sea due to an earthquake is called _____
- (A) Tsunami
 - (B) Hurricane
 - (C) Cyclone
 - (D) Tornado
64. What is the name of the molten rock material that is found within the Earth along the gases?
- (A) Lava
 - (B) Magma
 - (C) Molten salt
 - (D) Basaltic lava
65. Which gas is most abundant in the Earth's atmosphere?
- (A) Oxygen
 - (B) Nitrogen
 - (C) Hydrogen
 - (D) Carbon di oxide
66. What is the purpose of a 'permit' under the Motor Vehicles Act?
- (A) To allow a vehicle to be driven on a public road
 - (B) To authorize a vehicle to be used for commercial purposes
 - (C) To ensure the vehicle meets safety standards
 - (D) To identify the vehicle owner according to the Motor Vehicles Act

67. In the context of motor vehicle accidents, what is the "golden hour"?
- (A) The hour after the accident when the most traffic congestion occurs.
 - (B) The first hour following a traumatic injury, where prompt medical care is most effective in preventing death.
 - (C) The hour after the accident when most of the paperwork is completed.
 - (D) The hour when the traffic police usually arrive at the accident scene.
68. When was the Beti Bachao Beti Padhao (BBBP) Scheme launched?
- (A) 2014
 - (B) 2015
 - (C) 2016
 - (D) 2017
69. On 7 May 2025, India launched Operation Sindoor
- (A) in response to the terrorist attack on the Parliament of India in New Delhi, India.
 - (B) in response to the Pahalgam terrorist attack.
 - (C) in response to revocation of Article 370
 - (D) in response to the Suicide attack on Security forces in Pulwama
70. The laws which replaces the British-era IPC, CrPC, and Indian Evidence Act are __, __, and __ respectively.
- (A) Bharatiya Nagrik Suraksha Sanhita (BNSS), Bharatiya Nyaya Sanhita (BNS) and Bharatiya Sakshya Adhiniyam (BSA)
 - (B) Bharatiya Nyaya Sanhita (BNS), Bharatiya Nagrik Suraksha Sanhita (BNSS) and Bharatiya Sakshya Adhiniyam (BSA)
 - (C) Bharatiya Sakshya Adhiniyam (BSA), Bharatiya Nyaya Sanhita (BNS) and Bharatiya Nagrik Suraksha Sanhita (BNSS)
 - (D) Bharatiya Nyaya Sanhita (BNS), Bharatiya Sakshya Adhiniyam (BSA), Bharatiya Nagrik Suraksha Sanhita (BNSS)
71. There is no official religion in _____.
- (A) Sri Lanka
 - (B) England
 - (C) Nepal
 - (D) India
72. When was the 'Right to Information' Act passed?
- (A) October 2005
 - (B) March 2006
 - (C) December 2007
 - (D) September 2003

73. Which institution is responsible for issuing banknotes in India?
- (A) Ministry of Finance
 - (B) Reserve Bank of India
 - (C) State Government
 - (D) Ministry of External Affairs
74. When 1 litre of water is cooled from 4 degree centigrade to Zero degree Centigrade, its volume _____
- (A) first decreases and then increases
 - (B) First increases and then decreases
 - (C) increases
 - (D) remains the same
75. Which vitamins help in the clotting of blood?
- (A) Vitamin A
 - (B) Vitamin B
 - (C) Vitamin E
 - (D) Vitamin K

ENGLISH LANGUAGE

76. He is not coming this _____ because he is still feeling _____
- (A) weak, week
 - (B) week, week
 - (C) weak, weak
 - (D) week, weak
77. I saw _____ inkpot lying in _____ room.
- (A) a, an
 - (B) an, the
 - (C) the, an
 - (D) a, the
78. The way to a man's heart is _____ his stomach.
- (A) along
 - (B) for
 - (C) through
 - (D) above
79. There is a forecast of rain, but today it _____ rain".
- (A) is to
 - (B) will even
 - (C) will be
 - (D) are

80. Teaching is _____ profession.

- (A) honorary
- (B) hounorary
- (C) honourabile
- (D) honourable

81. What is the synonym of "hearty"?

- (A) cold
- (B) warm
- (C) warmly
- (D) cordially

82. What is the antonym of the under lined word?

The couple fled from home in the night

- (A) arrived
- (B) deserted
- (C) absconded
- (D) retreated

83. Rearrange the following jumbled up sentence into a meaningful one

asked / i / come / to / him / today

- (A) I asked to come to him today
- (B) I asked him to come today
- (C) I asked today to come him
- (D) Today I asked him to come

84. Find the correct passive voice for the given sentence in active voice from the given alternatives

Raj collects money

- (A) Money has been collected by Raj
- (B) Money is collected by Raj
- (C) Money is been collected by Raj
- (D) Money is being collected by Raj

85. Choose the correct spelling

- (A) Committee
- (B) Committe
- (C) Committee
- (D) Comitee

86. Out of four alternatives suggested, select the one that best expresses the same sentences in indirect /direct speech.

He said, "What are doing"

- (A) he asked me what you are doing
- (B) He asked me what he is doing
- (C) He asked me what I have been doing
- (D) He asked me what I was doing

87. Arrange the given words in the sequence in which they occur in the dictionary

1 - Energy, 2 - Earlobe, 3 - Economics 4 - Edition 5 - Editor

- (A) 32415
- (B) 23541
- (C) **23451**
- (D) 24521

88. Identify the correct meaning of the underlined idiom/phrase

Beat around the bush

- (A) Not speaking directly or precisely
- (B) Not judging something by its initial appearance
- (C) To make a bad situation even worse
- (D) To do agriculture for living

89. A man facing in west direction turns 45 degree clockwise, then turns 45 degree anticlockwise and then turns 135 degree in clock wise direction. Which direction is he facing now ?

- (A) North-west
- (B) west
- (C) South
- (D) North-East

90. Pick out the clause in the following sentence:

I do not know whether he will come tomorrow

- (A) I do not know
- (B) I do not know whether
- (C) whether he will come tomorrow
- (D) he will come tomorrow

91. In the following sentence, choose the one which can be substituted for the given word /sentence

A life story of a person written by himself –

- (A) Biography.
- (B) Climax.
- (C) Autobiography.
- (D) Catastrophe.

92. Identify which of the following conjunctions can join both sentences such that the meaning of the two statements would not change

She was uneasy because she “never be” on a plane before.

- (A) had never been
- (B) never been
- (C) is never been
- (D) No improvement

93. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select ‘No Error’.

With a fresh coat of paint (A) / the school can (B) / look much nice. (C) / No error (D)

- (A) With a fresh coat of paint
- (B) the school can
- (C) look much nice
- (D) No error

94. Complete the sentence with given words

The man’s _____ driving resulted in a four-car pile-up on the freeway.

- (A) Charismatic
- (A) Exceptional
- (B) Boastful
- (C) negligent

95. Correct the highlighted part of sentence with most appropriate grammatically correct word / phrase

“Have you been” more careful, the accident could have been averted.

- (A) If you have been
- (B) Had you been
- (C) Have you been
- (D) If you could have been

96. Fill in the blanks with correct word in the conversation

_____ **do you go to the gym? - Twice a week.**

- (A) How often
- (B) Where
- (C) How
- (D) Why

97. Fill in the blanks with grammatically correct word

_____ **of my friends are coming to the party.**

- (A) Many
- (B) Much
- (C) More
- (D) Most

98. _____ builds a strong business and personal relationships.

- (A) Effective Communication
- (B) Vague Communication
- (C) Oral Communication
- (D) Written Communication

99. Choose the correct statement:

- (A) My aunt who lives in Mumbai is a doctor.
- (B) My aunt, who lives in Mumbai, is a doctor.
- (C) My aunt, who lives in Mumbai is a doctor.
- (D) My aunt who lives in Mumbai, is a doctor.

100. If the alphabet is written in reverse order, what is the 5th letter from the right end?

- (A) V
- (B) W
- (C) X
- (D) Y

सीएसआईआर-संरचनात्मक अभियांत्रिकी अनुसंधान केन्द्र
CSIR-STRUCTURAL ENGINEERING RESEARCH CENTRE
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद् Council of Scientific and Industrial Research)
सीएसआईआर रोड CSIR Road, तारमणि Taramani, चेन्नै Chennai
Recruitment to the Post of Driver
Advertisement No. SE-1/2021
Competitive Written Examination (CWE) held on 18-07-2025

ANSWER KEY

**GENERAL
INTELLIGENCE**

Qn. No	Answer
1	A
2	C
3	B
4	D
5	C
6	B
7	A
8	C
9	D
10	B
11	A
12	B
13	D
14	C
15	A
16	C
17	C
18	B
19	B
20	C
21	B
22	B
23	C
24	A
25	D

**QUANTITATIVE
APTITUDE**

Qn. No	Answer
26	D
27	D
28	B
29	A
30	C
31	A
32	A
33	C
34	D
35	A
36	A
37	B
38	B
39	C
40	A
41	C
42	B
43	C
44	C
45	B
46	A
47	D
48	C
49	A
50	A

**GENERAL
AWARENESS**

Qn. No	Answer
51	B
52	A
53	D
54	B
55	A
56	B
57	C
58	D
59	A
60	C
61	A
62	D
63	A
64	B
65	B
66	A
67	B
68	B
69	B
70	B
71	D
72	A
73	B
74	A
75	D

**ENGLISH
LANGUAGE**

Qn. No	Answer
76	C
77	B
78	C
79	C
80	D
81	B
82	A
83	B
84	B
85	A
86	D
87	C
88	A
89	D
90	C
91	C
92	A
93	C
94	D
95	B
96	A
97	A
98	A
99	B
100	B