

# COMPETITIVE POTENTIAL ASSESSMENT (CPA) TEST

For Admission to  
Foundation Excel JEE Program  
(VIII moving students)

## **1. PREAMBLE :**

- In Engineering Education at IITs, NITs or the top Institutions, the Mantra of success is the ability to think on given situation and apply knowledge to find best possible solution in least possible time.
- Potential to succeed in Engineering Entrance Examinations to these institutions is therefore to assess this ability.
- ICAD's CPA test is precisely aimed at this objective, and it consists of carefully framed Multiple Choice Objective Questions.
- 'Mugged up information', casual approach, poor comprehension etc. will not produce any result.

## **2. SYLLABUS :**

The syllabus is the contents, students have learned in Physics, Chemistry, and Mathematics up to VII standard (state board / CBSE), Details of the topics are given in the following table. However the question asked in CPA Test will be of probing nature. They will be based on application of the knowledge.

## **3. REFERENCE BOOKS :**

- Standard Text Books of Science (Physics & Chemistry) and Mathematics, social science of classes V, VI, VII (State Board/CBSE/NCERT)
- Scholarship Exam Books, Olympiad Books. Any other book for competitive examination for standard VII.

## **4. GENERAL INSTRUCTIONS REGARDING TEST PAPER :**

- The question paper will consist of objective type questions having multiple choices known as MCQ. Each question will have four choices as possible answers, namely (a), (b), (c), and (d).
- There will be no negative marking (3R-0W), which means that for correct answer, 3 marks will be awarded, but no marks will be deducted for wrong answer.
- All the answers are to be marked by darkening the appropriate bubble(s) against the corresponding question. Darkening must be done carefully and fully by BLACK BALL POINT PEN ONLY. There is no provision of canceling the darkened bubble and marking another bubble, such answers will be treated as WRONG answers.
- Sample question paper and corresponding correct bubble sheet is provided for your reference.

## **5. SPECIAL TIPS FOR MAXIMIZING SCORE :**

- Give exact Time to each subject i.e. Mathematics, Science, Social Science, Mental Ability.
- Start solving question paper sequentially.
- Read the question very carefully, comprehend it while reading, and jot down important things contained in the question on rough sheet/space (1 minute), think whether you can answer it or not

(30 sec), if you can answer it, solve and darken the appropriate bubble(s), only if you are confident about the answer (30 sec).

- If you think that it is beyond your limit to get answer, go to the next question; do not waste your time.
- Accuracy should be the first criteria than Speed

## 6. SAMPLE QUESTION PAPER :

- The format (No. of Questions, Max. Marks & time) of the actual CPA test paper may be different than the Sample Paper. However, general nature will remain same.



## Sample Test for 90 minutes

### [ MATHEMATICS ]

#### CHOOSE THE CORRECT OPTION:

1. A difference between two positive numbers is 27 and their ratio is 3 : 2. Hence, these numbers would be ....  
(a) 91, 64                      (b) 81, 54                      (c) 71, 44                      (d) 61, 34
2. Difference between two positive numbers is also equals 5 times that of the smaller number, the two numbers, therefore, will be  
(a) 24, 12                      (b) 60, 12                      (c) 3, 18                      (d) 2, 14
3. Today, age of Mahavir is 5 times that of Satish. 5 years later, his age will be 6 times that of the present age of Satish. Hence their present ages are ....  
(a) 9, 45                      (b) 3, 15                      (c) 5, 25                      (d) 25, 125
4. The actual price of raincoat is increased by 30% & then printed. But while selling it, a discount of 30% is offered on the printed cost. Therefore, the selling price of a raincoat .....  
(a) remains same as compared to the actual price. (b) increases as compared to the actual price  
(c) decreases as compared to the actual price      (d) increases by 10%
5. The total cost of 40 cricket balls and 10 bats is 10,000. The cost of each bat exceeds the cost of a ball by Rs. 200/- Find the cost of each cricket ball and bat respectively.  
(a) 40,340                      (b) 100,300                      (c) 250, 450                      (d) 160,360
6.  $5^0 \div 5^3 = \dots$   
(a)  $5^{-3}$                       (b) 0                      (c)  $5^6$                       (d)  $5^3$
7. The number 0.000000039 can be written as .....  
(a)  $3.9 \times 10^{-7}$                       (b)  $3.9 \times 10^{-9}$                       (c)  $3.9 \times 10^{-8}$                       (d)  $3.9 \times 10^{-10}$
8. If  $x^2 \div 625 = 9 \div 25$ , then x = .....  
(a) 15                      (b) 25                      (c) 81                      (d) 9
9. Which of the following statements is true ?  
(a) The product of two reciprocals is always 1.      (b) The addition of two reciprocal is always 1.  
(c) The subtraction of reciprocals always gives 1.      (d) The product of two reciprocals is always 0.
10.  $\sqrt{1849} = 43$   
 $\sqrt{18.49} + \sqrt{0.1849} + \sqrt{0.001849} = ?$   
(a) 4.773                      (b) 47.773                      (c) 0.4773                      (d) 0.04773
11. The ratio of present ages of Ajay and Abhay is 2 : 3. The ratio of their ages 10 years ago was 3 : 5. What will be the ratio of their ages 10 years hence?  
(a) 5 : 8                      (b) 5 : 7                      (c) 3 : 4                      (d) 4 : 5

12.  $\left[ \frac{4}{24} \times \frac{15}{20} \times \frac{36}{18} \times 16 \right] \div \frac{8}{3} = x$  then  $x = ?$

- (a)  $\frac{3}{2}$                       (b)  $\frac{4}{3}$                       (c)  $\frac{3}{32}$                       (d) 1.5

13. (M+19) is an odd number which is divisible by 11. Find 3<sup>rd</sup> even number after that which is divisible by 11 ?

- (a) 88                      (b) 44                      (c) 99                      (d) 55

14.  $9(10^3) + 8(10^2) + 9(10^1) + 29$ . Write on number of this expression.

- (a) 9019                      (b) 9819                      (c) 9719                      (d) 9919

15.  $\frac{4}{10} \div \frac{4}{10} - \frac{4}{10} \times \frac{4}{10} + \frac{4}{10} = ?$

- (a) 0.64                      (b) 0.26                      (c) 0.46                      (d) 1.24

16. If  $5^4 = 625$  then  $\sqrt{\frac{\sqrt{6.25}}{10}} = ?$

- (a) 0.25                      (b) 0.05                      (c) 0.5                      (d) 5

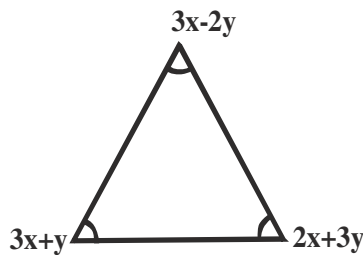
17.  $x = 729, y = 1600$ . Then  $\sqrt{x^{\frac{1}{3}} + y^{\frac{1}{2}}} = ?$

- (a) 28                      (b) 0.7                      (c) 7                      (d) 70

18. A rectangular cardboard is  $4\text{cm} \times 2\text{cm}$ . A circle of greatest area is cut from it. Then the area of remaining portion is ..... sq. cms.

- (a)  $16 - \pi$                       (b)  $8 - \pi$                       (c)  $8 - 4\pi$                       (d)  $16 - 4\pi$

19. The angles of isosceles triangle in the figure are given below. Then  $x + y = ?$



- (a)  $30^\circ$                       (b)  $40^\circ$                       (c)  $20^\circ$                       (d)  $35^\circ$

20. In  $\frac{2}{7}$  how many times  $\frac{3}{7}$  added to get 5 ?

- (a) 12                      (b) 9                      (c) 10                      (d) 11



## [ SCIENCE ]

**CHOOSE THE CORRECT OPTION:**

21. Akshayya Urja Din is observed on

- (a) 15<sup>th</sup> August                      (b) 20<sup>th</sup> August                      (c) 25<sup>th</sup> August                      (d) 22<sup>nd</sup> March

22. Potable water is

- (a) pure distilled water                      (b) water fit for drinking  
(c) water filled in pots                      (d) rain water

23. The colour which is on the top of the spectrum obtained when light passes through a prism

- (a) Violet                      (b) white                      (c) red                      (d) can not be said

24. A bimetallic strip bends when heated because

- (a) copper expands more than iron                      (b) copper and iron expand equally  
(c) Iron expands more than copper                      (d) copper do not expand on heating

25. Moss, algae and hydra show

- (a) system level                      (b) Organ level                      (c) Tissue level                      (d) Cell level

26. Bryophyllum plant can reproduce from its

- (a) roots                      (b) seeds                      (c) bulbils                      (d) leaves

27. In mammals, the heart has  
 (a) Two chambers (b) Three chambers (c) Four chambers (d) One chamber
28. The symbol of element Tin is  
 (a) T (b) N (c) Pb (d) Sn
29. We receive the light produced in the nuclear reactions that occur on the sun, but we do not receive the sound produced because  
 (a) Speed of light is more than speed of sound  
 (b) Light does not require medium for propagation, where as sound requires medium for its propagation.  
 (c) Light is energy but sound is not form of energy.  
 (d) Sound is not produced on the sun.
30. An ice cube submerged completely in the water filled upto the brim in a beaker melts, then  
 (a) Water overflows from the beaker (b) Water does not overflow from the beaker  
 (c) Water levels increase  
 (d) Water may or may not overflow from the beaker.



## [ SOCIAL SCIENCE ]

### FILL IN THE BLANKS

31. Harihar & Bukka were founders of kingdom of \_\_\_\_\_  
 (a) Bahamani (b) Vijay Nagar (c) Pala (d) Chola
32. \_\_\_\_\_ is known as the first poet of Gujarati language.  
 (a) Narsee Mehta (b) Sant Mirabai (c) Sant Kabir (d) Guru Nanak
33. Din-i-Elani a new religious order was founded by \_\_\_\_\_  
 (a) Babur (b) Akbar (c) Shershah Sur (d) Humayan
34. Guru Gobindsingh spent later part of his life at \_\_\_\_\_.  
 (a) Nanded (b) Amritsar (c) Lahor (d) Nashik
35. Dara Shukoh translated the \_\_\_\_\_ in Persian  
 (a) Upanishads (b) Vedas (c) Ramayana (d) Mahabharat
36. \_\_\_\_\_ is a permanent house  
 (a) Rajya Sabha (b) Lok Sabha (c) Vidhansabha (d) Gram Panchayat
37. A solar eclipse can occur only on a \_\_\_\_\_ moonday.  
 (a) new (b) full (c) quarter (d) crescent
38. Light year is a unit of \_\_\_\_\_.  
 (a) speed (b) distance (c) time (d) light intensity
39. Nearly \_\_\_\_\_ % of the earth's surface is covered by water.  
 (a) 71 (b) 80 (c) 79 (d) 65
40. Almost all the ocean currents follow the direction of \_\_\_\_\_ winds.  
 (a) planetary (b) local (c) monsoon (d) polar



## [ MENTAL ABILITY ]

### CHOOSE THE CORRECT OPTION :

Note : Q. No. 41 to 42 : Following questions are based of English alphabets.

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

41. If the first half of the alphabet from A to M are written in reverse order, which letter will be 19<sup>th</sup> from your right ?  
 (a) F (b) H (c) E (d) G
42. If the even numbered letters are dropped from the above alphabet which will be 9<sup>th</sup> letter from your right ?  
 (a) G (b) I (c) K (d) J

43. If Southeast becomes West, Northwest becomes East, What will become East ?  
 (a) Northwest      (b) South      (c) West      (d) Southwest

**Note : Q.No. 44 to 46 :** If the following questions the first two terms are related in a certain way. The same relationship exists between the third term and one of the terms amongst the alternatives. Identify the relationship and find the correct alternative.

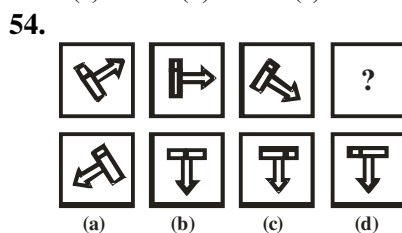
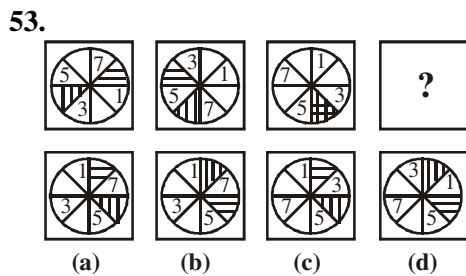
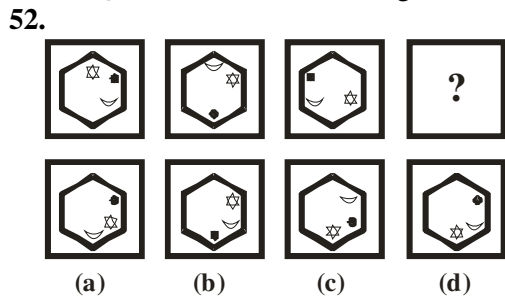
44. 40 : 53 :: 68 : ?  
 (a) 73      (b) 85      (c) 78      (d) 80
45. 10 : 23 :: 5 : ?  
 (a) 33      (b) 43      (c) 46      (d) 36
46. 67 : 13 :: 74 : ?  
 (a) 54      (b) 20      (c) 10      (d) 16

**Note : Q. No. 47 to 51 :** Some names are given in column I and based on code language how they would be written is given in column II. The letters in column I and code letters in column II are not necessarily in the same order. Study the code language and find the correct alternative for given word. Alternatives also may not be in order.

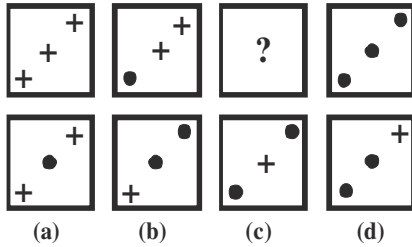
Column I	Column II
VISHWAS	pbdabqf
MAINA	qfgtf
VISHVANATH	aeftfdabqd
SUHAS	fbalb

47. WISHNU = ?  
 (a) abptql      (b) abptfl      (c) ptqgab      (d) qltgda
48. MINT = ?  
 (a) gdqe      (b) dbge      (c) gtqe      (d) teqf
49. WHAT = ?  
 (a) apef      (b) apet      (c) gepa      (d) afpd
50. NAMITA = ?  
 (a) tfgbef      (b) tfgdef      (c) tfgatf      (d) tfgqef
51. SHANTI = ?  
 (a) getdab      (b) qetfab      (c) qetdab      (d) bafqat

**Note : Q. No.52 to 55 :** Which figure will appear at question mark in the following series of figures ?



55.



**Note : Q. 56 to 59 :** A, B, C and D are four players. A and B play Cricket and Hockey; B and C play Hockey and Football; D and A play Volleyball and Cricket; B plays basketball. Then \_\_\_\_\_

56. Who plays maximum games ?

- (a) A                      (b) B                      (c) C                      (d) D

57. Who plays cricket and Football from the following ?

- (a) A, B                      (b) B, C                      (c) C, A                      (d) None of these

58. Which of the following games is played by more than two players ?

- (a) Cricket                      (b) Football                      (c) Volleyball                      (d) Basketball

59. Which of the following games are played by A, B and D ?

- (a) only Hockey                      (b) Cricket and Hockey                      (c) only Cricket                      (d) Cricket and Volleyball

**Note : Q.No. 60 to 63 :** A number series is given in each question. Which number will come in place of question mark ?

60. 2, ? 36, 80, 150, 252

- (a) 10                      (b) 12                      (c) 14                      (d) 16

61. 4, 5, 9, 18, 34, 59, ?

- (a) 85                      (b) 90                      (c) 95                      (d) 100

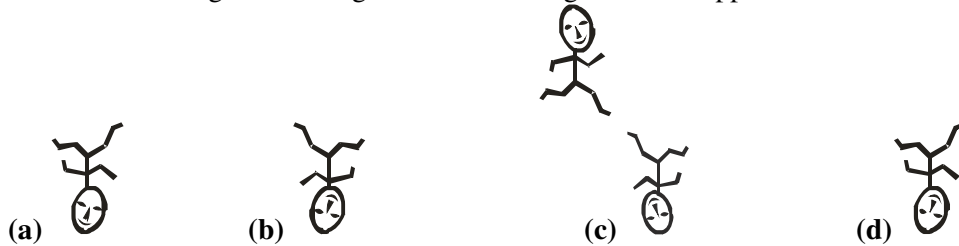
62. 8, 39, 70, 101, 132, ?

- (a) 163                      (b) 165                      (c) 167                      (d) 169

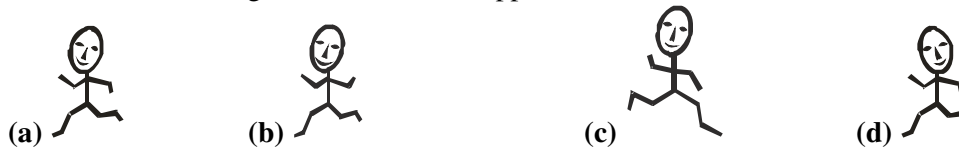
63. 8, 13, 20, 29, 40, ?

- (a) 49                      (b) 51                      (c) 53                      (d) 55

64. How will the image of running man shown in figure below appear in water ?

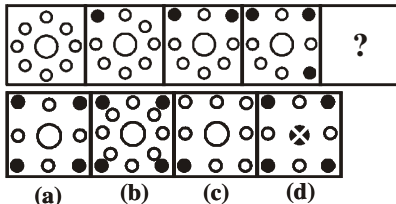


65. How will mirror image of the same man appear ?

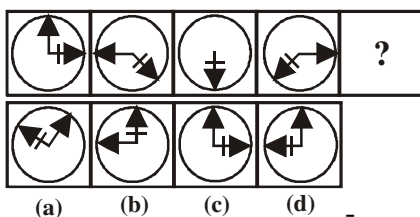


**Note : Q.No. 66 to 69 :** Amongst the alternatives, which figure will appear at the place of equation mark given below ?

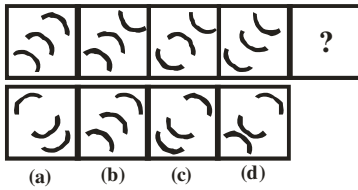
66.



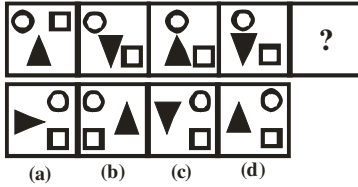
67.



68.



69.



70. Which letter precedes the letter which is third to the right of the middle letter in the word STIMULATE ?

- (a) S (b) A (c) L (d) T

Note : Q.No. 71 and 72 : If A = 1, B = 2, ..... Z = 26, then

71. FE + EE = ?

- (a) AB (b) LT (c) KT (d) AT

72.  $Y^2 = ?$

- (a) FY (b) FBE (c) FY and FBE (d) None of these

Note : Q.No. 73 to 76 : In the following questions, there is some relation between first two terms. The same relation exists between the last two terms. Identify which term amongst the alternatives will appear at the question mark.

73. 17 : 53 :: ? : 38

- (a) 19 (b) 12 (c) 15 (d) 18

74. 49 : 76 :: 85 : ?

- (a) 81 (b) 144 (c) 193 (d) 216

75. HJLN : mMil :: ? : sTqP

- (a) ORSN (b) ORST (c) USRN (d) QRST

76. NML : NOP :: GFED : ?

- (a) DEFG (b) GIKL (c) GHJI (d) GHIJ

77. If AT = 20, BAT = 40; then EAT = ?

- (a) 60 (b) 80 (c) 100 (d) 120

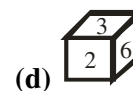
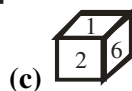
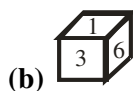
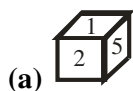
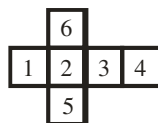
78. If  $8 \times 5 = 44$ ,  $6 \times 5 = 33$ ; then  $4 \times 5 = ?$

- (a) 21 (b) 22 (c) 24 (d) 25

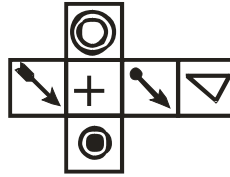
79. If  $6 \times 9 = 153$ ,  $4 \times 8 = 124$ ,  $3 \times 7 = 104$ ; then  $2 \times 8 = ?$

- (a) 73 (b) 77 (c) 106 (d) 108

80. The given figure is folded to form a cube. Which one of the following figures is not possible ?



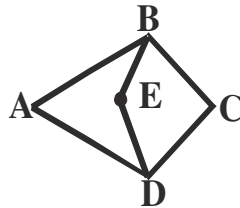
81. The adjoining figure is folded to form a cube. How would the cube look like amongst the alternatives ?



82. In an examination, Saira scored less marks than Dilip but not as less as Shashi. Shashi scored more than Ashok but not as much as Nanda. Who scored the highest marks ?  
 (a) Nanda (b) Saira (c) Ashok (d) Data inadequate

**Note : Q.No. 83 and 84 :** There are five cities A – B – C - D – E connected by six roads as shown in the diagram below. Design a route so that you walk on all the six roads once and only once.

83. For a route which satisfies the above condition which one of the following statements is true ?



- (a) The route starts from A or C (b) The route starts from E  
 (c) The route starts from B or D (d) The route starts from A or B
84. After starting the journey which one will be the first city on your route ?  
 (a) Only E (b) Only B (c) A or C (d) A or C or E
85. A is as much older than B as A is younger than C. The sum of the ages of B and C is 42 years. What is the age of A ?  
 (a) 18 (b) 24 (c) 21 (d) 14

**Note : Que. 86 to 88 :** A family consists of 6 members P, Q, R and X, Y, Z. (1) Q is son of R but R is not mother of Q, (2) P and R is married couple, (3) Y is brother of R, (4) X is daughter of P, (5) Z is brother of P. Answer the following.

86. Who is the brother – in – law of R ?  
 (a) P (b) Z (c) Y (d) X
87. How many female members are there in the family?  
 (a) 2 (b) 3 (c) 4 (d) 1
88. Which is the pair of brothers ?  
 (a) Q - X (b) P - Z (c) Z - Y (d) R - Y

**Note : Que. 89 and 90 :** In a certain language DOG is coded as 231220. How will the following words be coded in that language ?

89. OWL  
 (a) 12315 (b) 12415 (c) 13415 (d) 15414
90. CAT  
 (a) 24268 (b) 23267 (c) 3120 (d) 24267





**Answer Key :**

	Q.No.		Q.No.		Q.No.																																																																			
<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p style="text-align: center; margin: 0;"><b>ROLL NUMBER</b></p> <table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> <td style="border: 1px solid black; width: 20px; height: 20px;"></td> </tr> </table> <table style="width: 100%; text-align: center; border-collapse: collapse;"> <tr><td style="border: 1px solid black; width: 20px; height: 20px;">0</td><td style="border: 1px solid black; width: 20px; height: 20px;">0</td><td style="border: 1px solid black; width: 20px; height: 20px;">0</td><td style="border: 1px solid black; width: 20px; height: 20px;">0</td><td style="border: 1px solid black; 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height: 20px;" type="text"/></p> <p>DATE. <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/> <input style="width: 20px; height: 20px;" type="text"/></p> <p style="text-align: center; font-size: small;">DD MM YYYY</p> <p>MARKS <input style="width: 50px; height: 20px;" type="text"/></p> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="border: 1px solid black; width: 40%; height: 30px;"></div> <div style="border: 1px solid black; width: 40%; height: 30px;"></div> </div> <p style="font-size: x-small; margin-top: 5px;">Candidate Signature      Invigilator Signature</p> <p style="font-size: x-small; margin-top: 5px;">[Soft By Acad Soft - 9890518592]</p> </div>							0	0	0	0	0	0	1	1	1	1	1	1	2	2	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4	5	5	5	5	5	5	6	6	6	6	6	6	7	7	7	7	7	7	8	8	8	8	8	8	9	9	9	9	9	9	1	(A) ● (C) (D)	51	(A) ● (C) (D)	101	(A) (B) (C) (D)
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