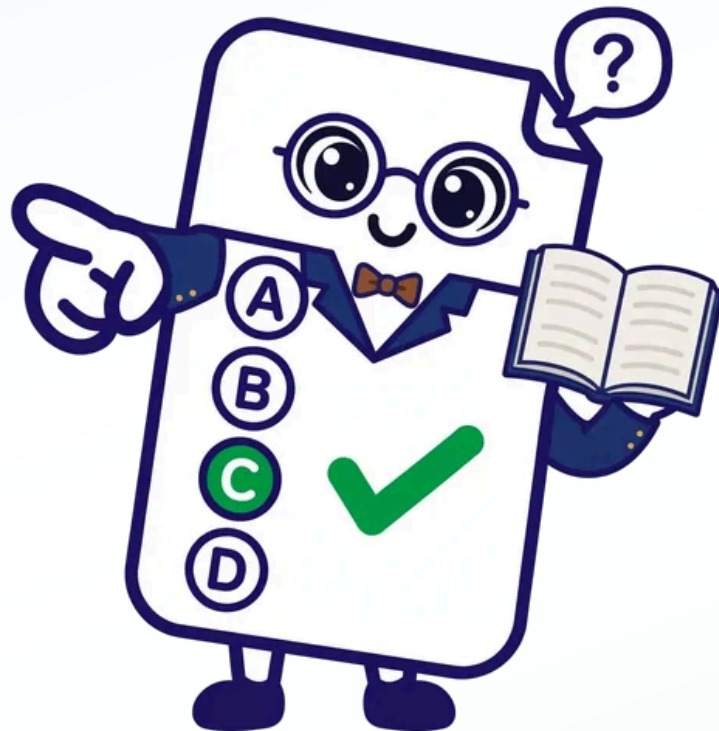




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Lecturer Mathematics Test Preparation Book 2026

A full model paper in the real Lecturer Mathematics Test pattern, with answer key



100 MCQs

Real Lecturer Mathematics Test subject split

Answer key + online explanations

How to use this book

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100 MCQs across one paper, each drawn in the same subject split as the real Lecturer Mathematics Test paper:

- Mathematics: 80 MCQs per paper
- English: 5 MCQs per paper
- General Knowledge: 5 MCQs per paper
- Pakistan Studies: 4 MCQs per paper
- Pakistan Current Affairs: 3 MCQs per paper
- Islamic Studies: 2 MCQs per paper
- Computer Science and IT: 1 MCQs per paper



MODEL PAPER 1 OF 1

Lecturer Mathematics Test

100 MCQs · 120 minutes · answer key at the back



Mathematics

80 MCQs

1. A large cube is formed from the material obtained by melting three smaller cubes of 3, 4 and 5 cm side. What is the ratio of the total surface areas of the smaller cubes and the large cube?
- (A) 2 : 1 (B) 3 : 2
(C) 25 : 18 (D) 27 : 20
2. In a three digit number, the hundred digit is 2 more than the tens digit and the units digit is 2 less than the tens digit. If the sum of the digits is 18, find the number?
- (A) 975 (B) 753
(C) 642 (D) 684
(E) None of these
3. A fair price shopkeeper takes 10% profit on his goods. He lost 20% goods during theft. His loss percent is: _____?
- (A) 8 (B) 10
(C) 11 (D) 12
4. The area of a sector of a circle of radius 5 cm formed by an arc of length 3.5 cm is _____?
- (A) 0.35 cm² (B) 17.5 cm²
(C) 8.75 cm² (D) 55 cm²
5. $(1-2x)^n$, coefficient of x is -8 then coefficient of x^2 is:
- (A) 24 (B) 29
(C) 48 (D) 96
6. A man was employed on the promise that he will be paid the highest wages per day. The contract money to be paid was Rs. 1189. Finally he was paid only Rs. 1073. For how many days did he actually work?
- (A) 39 (B) 40
(C) 37 (D) 35
7. A circle and a rectangle have the same perimeter. The sides of the rectangle are 18cm and 26cm. What is the area of the circle?
- (A) 88cm² (B) 154cm²
(C) 616cm² (D) 1250cm²

8. A group of 10 representatives is to be selected out of 12 seniors and 10 juniors. In how many different ways can the group be selected, if it should have 5 seniors and 5 juniors?

- (A) $^{12}C_5 * 10$ (B) $^{12}C_7 * 10$
(C) $^{12}C_7 * ^{10}C_5$ (D) $12 * ^{10}C_5$

9. A work can be finished in 16 days by twenty women. The same work can be finished in fifteen days by sixteen men. The ratio between the capacity of a man and a woman is _____?

- (A) 1:3 (B) 4:3
(C) 2:3 (D) 2:1

10. The area of sector of a circle whose radius is 12 metro and whose angle at the center is 42° is?

- (A) 26.4 m² (B) 39.6 m²
(C) 52.8 m² (D) 79.2 m²

11. Find the one which does not belong to that group ?

- (A) GFI (B) QOR
(C) LKN (D) YXA
(E) TSV

12. A tap can fill a tank in 32 min. and another can empty it in 16 min. If the tank is already half full and both the tanks are opened together, the tank will be _____?

- (A) 12 min (B) 14 min
(C) 16 min (D) 20 min

13. The length of a rope by which a cow must be tethered in order that she may be able to graze an area of 9856 sq.m is: _____?

- (A) 56m (B) 64m
(C) 88m (D) 168m

14. How many 4-letter words with or without meaning, can be formed out of the letters of the word, 'LOGARITHMS', if repetition of letters is not allowed?

- (A) 40 (B) 400
(C) 5040 (D) 2520

15. The ratio of two numbers is 5:9. If each number is decreased by 5, the ratio becomes 5:11. Find the numbers.

- (A) 30, 19
(B) 21, 37
(C) 15, 34
(D) 15, 27
- Enrolling In Online Certification Courses

16. What is the perimeter of a square field whose diagonal is $8\sqrt{2}$?

- (A) 64 m (B) 32 m
(C) 30 m (D) 16 m

17. Given that the co-efficient of x in the expansion of $(1-x)(1+1/2x)^n$ is $25/4$. Find the value of n

- (A) 5 (B) 10
(C) 25 (D) 4

18. The price of a certain item is increased by 15 %. If a consumer wants to keep his expenditure on the item same as before how much percent must he reduce his consumption of that item?

- (A) $10\frac{20}{23}\%$ (B) $13\frac{1}{23}\%$
(C) $16\frac{2}{3}\%$ (D) 15 %

19. How many cubes of edge 2 dm can be cut out of a meter cube?

- (A) 50 (B) 64
(C) 216 (D) 125

20. The coefficient of x^{10} in $(y + c/y^2)^{210}$ is:

- (A) 18712 (B) $c^{12}/210$
(C) $210/c^{12}$ (D) $210c^{12}$

21. The salary of a worker is first increased by 30% and afterwards reduced by 30%. What is net change in his salary?

- (A) 90% increase (B) 45% increase
(C) 9% decrease (D) Same as before

22. The length of the wire of 0.2mm radius that can be drawn after melting a solid copper sphere of diameter 18cm?

- (A) 24.3 m (B) 243 m
(C) 2430 m (D) 24300 m

23. Find out the wrong number in the series : 1, 1, 2, 6, 24, 96, 720

- (A) 6 (B) 24
(C) 96 (D) 720

24. A bag contains 1 rupee, 2 rupee and 5 rupee coins amounting to Rs.264. If the ratio of the number of these coins is 3:5:4, find the number of 1 rupee coins.

- (A) 66 (B) 48
(C) 24 (D) 8

25. The wire bent in the form of a square enclose an area of 484 Sq.cm. If the same wire is bent so as to form a circle then the area enclosed will be _____?

- (A) 484 Sq.cm
- (B) $538 \frac{2}{7}$ Sq.cm
- (C) 616 Sq.cm
- (D) 644 Sq.cm

26. Find the one which does not belong to that group ?

- (A) CAT
- (B) DOG
- (C) TIGER
- (D) ELEPHANT
- (E) LION

27. A boatman goes 2 km against the current of the stream in 1 hour and goes 1 km along the current in 10 minutes. How long will it take to go 5 km in stationary water?

- (A) 40 minutes
- (B) 1 hour
- (C) 1 hr 15 min
- (D) 1 hr 30 min

28. The perimeter of circle field and a square field are equal. If the area of these square field is 12100m², the area of a circular field will be _____?

- (A) 15500 Sq.m
- (B) 15400 Sq.m
- (C) 15200 Sq.m
- (D) 15300 Sq.m

29. The term which is independent of x in $(x^2 - \frac{1}{2x})^7$ is:

- (A) No such term
- (B) Middle Term
- (C) Last Term
- (D) None of these

30. A and B are two fixed points 5 cm apart and c is a point on AB such that AC = 3 cm. If the length of AC is increased by 6 % the length of CB is decreased by: _____?

- (A) 6 %
- (B) 7 %
- (C) 8 %
- (D) 9 %

31. The area of a square is 4096 sq cm. Find the ratio of the breadth and the length of a rectangle whose length is twice the side of the square and breadth is 24 cm less than the side of the square.

- (A) 18 : 5
- (B) 7 : 16
- (C) 5 : 14
- (D) None of these

32. (i). $a^2 - 9a + 20 = 0$, (ii). $2b^2 - 5b - 12 = 0$ to solve both the equations to find the values of a and b?

- (A) If $a < b$
- (B) If $a \leq b$
- (C) If the relationship between a and b cannot be established
- (D) If $a \geq b$

33. Rs. 800 amounts to Rs. 920 in 3 years at simple interest. If the interest rate is increased by 3%, it would amount to how much ?

- (A) Rs. 992
(B) Rs. 1112
(C) Rs. 1056
(D) Rs. 1182

34. If the ratio of the areas of two squares is 9:1 ratio of their perimeters is _____?

- (A) 9:1
(B) 3:1
(C) 3:4
(D) 1:3

35. If the sum of the co-efficients in the expansion of $(x+y)^n$ is 1024 then the value of the greatest co-efficient in the expansion is:

- (A) 356
(B) 252
(C) 210
(D) 120

36. Two trains 120 miles apart travel towards each other. The 1st train travels at 70 mph while the 2nd at 50 mph. A bird starts flying from the location of the faster train towards the other train at 85 mph and when it reaches the slower train it turns back and flies in the other direction at the same speed. When it reaches the faster train it again turns around and repeats the same procedure again and again. When the train collide, how far will the bird have flown?

- (A) 85 miles
(B) 70 miles
(C) 50 miles
(D) 120 miles

37. A rectangular field has dimensions 25m by 15m. Two mutually perpendicular passage of 2m width have been left in it's central part and grass has been grown in rest of the field. The area under the grass is _____?

- (A) 295m²
(B) 299m²
(C) 300m²
(D) 375m²

38. In the expansion of $(3x-1/x^2)^{10}$, the 5th term from the end is:

- (A) $16486/x^5$
(B) $13486/x^5$
(C) $17010/x^5$
(D) None of these

39. Out of 100 students, 50 failed in English and 30 in Mathematics. If 12 students fail in both English and Mathematics. Then the number of students who passed in both the subjects is _____?

- (A) 26
(B) 28
(C) 30
(D) 32

40. 10 decameters are equal to _____?

- (A) 1 Hectometers
(B) 2 Hectometers
(C) 3 Hectometers
(D) 4 Hectometers

41. Find the roots of quadratic equation: $2x^2 + 5x + 2 = 0$?

- (A) -2, -1/2 (B) 4, -1
(C) 4, 1 (D) -2, 5/2

42. The average of first five prime numbers greater than 20 is _____?

- (A) 31.00 (B) 31.01
(C) 32.00 (D) 32.2

43. The length of a rectangular plot is thrice its breadth. If the area of the rectangular plot is 867 sq m, then what is the breadth of the rectangular plot?

- (A) 8.5 m (B) 17 m
(C) 34 m (D) 51 m

44. Sum of series $1 - 1/2 + 1/4 - 1/8 + 1/16 - \dots$ is:

- (A) $1/\sqrt{5}$ (B) $4/\sqrt{5}$
(C) $2/\sqrt{5}$ (D) $3/\sqrt{5}$

45. A reduction of 25% in the price of oil enables a house wife to obtain 5kgs more for Rs.800, what is the reduced price for kg?

- (A) Rs.20 (B) Rs.30
(C) Rs.40 (D) Rs.25

46. Two cylinders are of the same height. Their radii are in the ratio 1: 3. If the volume of the first cylinder is 40 cc. Find the volume of the second cylinder?

- (A) 360 cc (B) 60 cc
(C) 300 cc (D) 36 cc

47. How many three letter words are formed using the letters of the word TIME?

- (A) 12 (B) 20
(C) 16 (D) 24

48. In what ratio should the profit be divided if M, N, O invests capital in ratio 2:3:5 and their timing of their investments are in the ratio 4:5:6.

- (A) 8:15:30 (B) 5:18:28
(C) 4:5:6 (D) 2:3:5

49. The perimeter of a floor of a room is 18m. What is the area of four walls of the room if its height is 3m?

- (A) 21 Sq.m (B) 42 Sq.m
(C) 54 Sq.m (D) 108 Sq.m

50. What is the Sum of First 70 Odd Numbers?

- (A) 4900 (B) 4970
(C) 4960 (D) None of these

51. The cost price of an article is 64% of the marked price. Calculate the gain percent after allowing a discount of 12%?

- (A) 37.5% (B) 48%
(C) 50.5% (D) 52%

52. In digging a pond 20 m * 10 m * 5 m the volumes of the soil extracted will be _____?

- (A) 100 cu.m (B) 1000 cu.m
(C) 10000 cu.m (D) 2000 cu.m

53. In how many ways can a group of 5 men and 2 women be made out of a total of 7 men and 3 women?

- (A) 63 (B) 90
(C) 126 (D) 45

54. What will be 80 Percent of a number whose 200 percent is 90?

- (A) 144 (B) 72
(C) 36 (D) none of these

55. A room is 6 meters 24 centimeters in length and 4 meters 32 centimeters in width. Find the least number of square tiles of equal size required to cover the entire floor of the room?

- (A) 110 (B) 124
(C) 96 (D) 117

56. The number of permutations of the letters of the word 'MESMERISE' is _____?

- (A) $9!/(2!)^2 3!$ (B) $9!/(2!)^3 3!$
(C) $9!/(2!)^2 (3!)^2$ (D) $5!/(2!)^2 3!$

57. The income of a broker remains unchanged though the rate of commission is increased from 4 % to 5 % the percentage of a slump in business is _____?

- (A) 8 % (B) 1 %
(C) 20 % (D) 80 %

58. The perimeter of a triangle is 28 cm and the inradius of the triangle is 2.5 cm. What is the area of the triangle?

- (A) 25 cm² (B) 42 cm²
(C) 49 cm² (D) None of these

59. A question paper had 10 questions. Each question could only be answered as true(T) or False(F). Each candidate answered all the questions, Yet no two candidates wrote the answers in an identical sequence. How many different sequences of answers are possible?

- (A) 20 (B) 40
(C) 512 (D) 1024

60. A boat running upstream takes 8 hours 48 min to cover a certain distance while it takes 4 hours to cover the same distance running downstream. What is the ratio between the speed of the boat and the speed of water current respectively?

- (A) 2 : 1 (B) 3 : 1
(C) 8 : 3 (D) Cannot be determined

61. Find the cost of fencing around a circular field of diameter 28 m at the rate of Rs.1.50 a meter?

- (A) Rs.150 (B) Rs.132
(C) Rs.100 (D) Rs.125

62. On the independence day, bananas were be equally distributed among the children in a school so that each child would get two bananas. On the particular day 360 children were absent and as a result each child got two extra bananas. Find the actual number of children in the school?

- (A) 600 (B) 620
(C) 500 (D) 520
(E) None of these

63. A car can travel 360km with a $\frac{3}{4}$ full tank. How many km can it travel with a $\frac{2}{3}$ full tank?

- (A) 400 (B) 320
(C) 240 (D) 300

64. The diagonal of a square is $4\sqrt{2}$ cm. The diagonal is another square whose area is double that of the first square is _____?

- (A) 8cm (B) $8\sqrt{2}$ cm
(C) 16cm (D) $4\sqrt{2}$ cm

65. Find the roots of the quadratic equation: $x^2 + 2x - 15 = 0$?

- (A) -5, 3 (B) 3, 5
(C) -3, 5 (D) -3, -5

66. The cost of 10 kg of apples is equal to the cost of 24 kg of rice. The cost of 6 kg of flour equals the cost of 2 kg of rice. The cost of each kg of flour is Rs.20.50. Find the total cost of 4 kg of apples, 3 kg of rice and 5 kg of flour?

- (A) Rs.849.40 (B) Rs.877.40
(C) Rs.901.60 (D) Rs.815.20
(E) None of these

67. The perimeter of a rectangle and square are 160m each. The area of the rectangle is less than that of the square by 100sq. meters. The length of rectangle is _____?

- (A) 30m
- (B) 40m
- (C) 50m
- (D) 60m

68. Find the one which does not belong to that group?

- (A) 1P6
- (B) 2Y4
- (C) 2T0
- (D) 1R8
- (E) 1M3

69. The population of a town increases 4 % annually but is decreased by emigration annually to the extent of $(\frac{1}{2})\%$. What will be the increase percent in three years?

- (A) 9.8
- (B) 10
- (C) 10.5
- (D) 10.8

70. In a Circle of Radius 5 cm if AB and AC are two equal chords of length 6cm each, then the length of chord BC is _____?

- (A) $\frac{24}{5}$ cm
- (B) $\frac{12}{5}$ cm
- (C) $\frac{7}{5}$ cm
- (D) None of these

71. The term independent of x in the expansion of $(\sqrt{x/3} + \sqrt{3/2}x^2)$ is:

- (A) C1
- (B) $\frac{5}{12}$
- (C) C. 1
- (D) None of these

72. What percentage of numbers from 1 to 70 have squares that end in the digit 1?

- (A) 1
- (B) 14
- (C) 20
- (D) 21

73. A rectangular field has area equal to 150 sq m and perimeter 50 m. Its length and breadth must be _____?

- (A) 12 m, 10 m
- (B) 13 m, 12 m
- (C) 14 m, 11 m
- (D) 15 m, 10 m

74. Convex region is not

- (A) bounded
- (B) unbounded
- (C) dashed line
- (D) closed

75. $\frac{8}{15} \div 1\frac{1}{3} \times \frac{3}{4} = 1.5$

- (A) 1
- (B) 2
- (C) 3
- (D) 5

76. The perimeter of a rectangle is 60m. If its length is twice its breadth then its area is _____?

- (A) 160m² (B) 180m²
(C) 200m² (D) 220m²

77. If $17xy + 7 = 19xy$, then $4xy = ?$

- (A) 2 (B) 3
(C) $\frac{1}{2}$ (D) 14

78. The average of the two-digit numbers, which remain the same when the digits interchange their positions, is _____?

- (A) 33 (B) 44
(C) 55 (D) 66

79. The areas of the two spheres are in the ratio 1: 4. The ratio of their volume is?

- (A) 1:4 (B) 1:16
(C) 1:8 (D) 1:64

80. What is the sum of coefficients in the expansion of $(x + y)^5$?

- (A) 30 (B) 31
(C) 32 (D) None of these



English

5 MCQs

81. A full description of car accidents _ reported.

- (A) are (B) have been
(C) was (D) were

82. Identify the errors and choose the correct option:

- (A) Gulliver travels was written to Swift.
(B) Gulliver travels was written at Swift.
(C) Gulliver's Travels was written by Swift.
(D) Gulliver's Travel was written by Swift.

83. Choose the antonym from the word "Abrogate".

- (A) Transgress (B) Signify
(C) Alleviate (D) Ratify

84. The stars were bright, and we could see our way. The sentence is a _ sentence.

- (A) Simple (B) Compound
(C) Complex (D) Compound complex

85. In the following question four alternative sentences are given. Choose the CORRECT option:

- (A) The parent who I have offended often come around after a term of years and tell me that his son was right.
- (B) The parent who I have offended often comes around after a term of years and tell me that his son was right.
- (C) The parents whom I have offended often comes around after a term of years and tells that his son was right.
- (D) The parent whom I have offended often comes around after a term of years and tells me that his son was right.



General Knowledge

5 MCQs

86. How many Countries are members of Arab monetary fund?

- (A) 24
- (B) 26
- (C) 22
- (D) None of these

87. Which city is called the 'Little Pakistan'?

- (A) Cairo
- (B) Bradford
- (C) Chicago
- (D) Dhaka

88. Keemiya-e Saadat was written by _____?

- (A) Taqi ad-Din Ahmad ibn Taymiyyah
- (B) Abu Naṣr Muḥammad ibn Muḥammad Al Farabi
- (C) Abu Abd Allah Muḥammad ibn Ali ibn Muḥammad ibn Arabi al-Ḥatimi aṭ-Ṭati
- (D) Abu Ḥamid Muḥammad ibn Muḥammad al-Ghazali

89. PMD stands for

- (A) Pakistan Medical Department
- (B) Pakistan Metropolitan Department
- (C) Pakistan Meteorological Department
- (D) Pakistan Mediocre Department

90. Why are there always crushed stones near railway tracks ?

- (A) The stones did not allow vegetation to grow on railway tracks.
- (B) To keeps water from reaching the track on a regular basis & softening the ground.
- (C) To hold the wooden cross ties in place, which in turn hold the rails in place.
- (D) All of the these

**Pakistan Studies**

4 MCQs

91. The Largest Cotton Exchange Building of Pakistan is situated in _____?

- (A) Karachi
- (B) Lahore
- (C) Faisalabad
- (D) Multan

92. The first Round Table Conference convened from _____?

- (A) 12 November 1930 to 19 January 1931
- (B) 7 September 1931 to 1 December 1931
- (C) 17 November 1932 - 24 December 1932
- (D) None of the above

93. Which pass connects Quetta with Chaman and Afghanistan?

- (A) Bolan Pass
- (B) Zhob Pass
- (C) Khyber Pass
- (D) Khojak Pass

94. Terrorists attacked on Police Training Center on 25 October-2016 night which result 61 martyred and 124 injured in?

- (A) Peshawar
- (B) Quetta
- (C) Karachi
- (D) Rawalpindi

**Pakistan Current Affairs**

3 MCQs

95. How many seats of Punjab assembly were elected unopposed for Senate election 2021?

- (A) 11 seats
- (B) 14 seats
- (C) 13 seats
- (D) 10 seats

96. Sheikh Muhammad bin Zayed Anahyan Road is in _____?

- (A) Mohmand District
- (B) Khyber District
- (C) Bajaur District
- (D) None of these

97. The mobile phone companies in Pakistan charge _____ per cent service charges informed by Attorney General Ashtar Ausaf to the Apex Court.

- (A) 10
- (B) 11
- (C) 12
- (D) 13

**Islamic Studies**

2 MCQs

98. The Battle of Camel was fought at _____?

- ☐ A Madina
- ☐ B Makkah
- ☐ C Kufa
- ☐ D Basra

99. The function of Hazrat Mekael (AS) is to _____?

- ☐ A Make rain and supply of food to Allah's creatures.
- ☐ B Take out the souls of life bearing creatures.
- ☐ C Brings Allah's message and commands to his prophets (AS)
- ☐ D Blow the trumpet on the day of judgment.

**Computer Science and IT**

1 MCQs

100. Why Drop Caps are used in document in Ms Word?

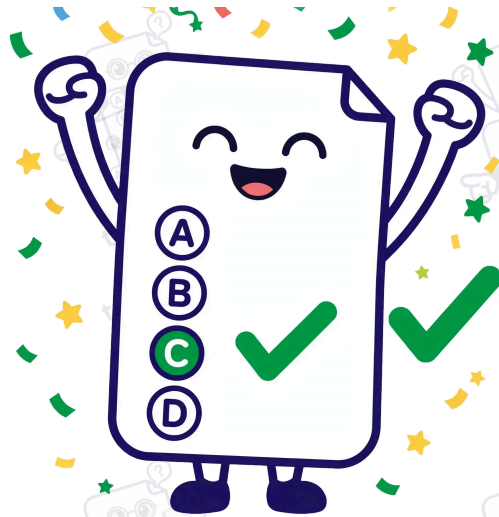
- ☐ A To drop all the capital letters
- ☐ B To automatically begin each paragraph with capital letter
- ☐ C To begin a paragraph with a large dropped initial capital letter
- ☐ D None of above

Answer key

Tap any answer to open its full explanation on TestUstad.

Model Paper 1

1	C	2	E	3	D	4	C	5	A	6	C	7	C	8	C	9	B	10	C
11	B	12	C	13	A	14	C	15	D	16	B	17	B	18	B	19	D	20	C
21	C	22	D	23	C	24	C	25	C	26	D	27	C	28	B	29	A	30	D
31	D	32	D	33	A	34	B	35	B	36	A	37	B	38	C	39	D	40	A
41	A	42	D	43	B	44	C	45	C	46	A	47	D	48	A	49	C	50	A
51	A	52	B	53	A	54	C	55	D	56	A	57	C	58	D	59	D	60	C
61	B	62	E	63	B	64	A	65	A	66	B	67	C	68	B	69	D	70	D
71	D	72	C	73	D	74	C	75	C	76	C	77	D	78	C	79	C	80	C
81	C	82	C	83	D	84	C	85	D	86	C	87	B	88	D	89	C	90	D
91	A	92	A	93	D	94	B	95	A	96	A	97	A	98	D	99	A	100	C



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