A Specially Designed Initiative to Encourage Young Talent by

ALLEN
CAREER INSTITUTE
KOTA (RAJASTHAN)
path to success

TALLENTEX 2017

ALLEN'S *Talent Encouragement Exam*

CLASS - 9th (IX)

Duration: 2 Hrs. | Maximum Marks : 320

Tallentex Roll No. | 5

Answer Sheet No. | T | 5

Please read the instructions carefully. You are allotted 5 minutes specifically for this purpose.

Things NOT ALLOWED in EXAM HALL : Blank Paper, clipboard, log table, slide rule, calculator, camera, mobile and any electronic or electrical gadget. If you are carrying any of these, then keep them at a place specified by invigilator at your own responsibility.

INSTRUCTIONS

1. This Booklet is your Question Paper. DO NOT break seal of Booklet until the invigilator instructs to do so.
2. Fill your TALLENTEX Roll No. & Answer Sheet No. in the space provided on the cover page.
3. Carefully fill your **PAPER CODE** and present **CLASS** in space provided **(Serial No. 6 & 12)** of optical response sheet.
4. Please make sure that paper you received is of your class only.
5. The Answer Sheet is provided to you separately which is a machine readable Optical Response Sheet (ORS). You have to mark your answers in the ORS by darkening bubble, as per your answer choice, by using black or blue ball point pen.
6. After breaking the Question Paper seal, check there are **16 pages** in the booklet. This Question Paper contains 80 MCQs with 4 choices (Subjects: Physics: 15, Chemistry: 15, Biology: 15, Maths: 15 & Mental ability: 20).
7. Think wisely before darkening bubble as **there is negative marking for wrong answer**. Answer once marked by pen cannot be cancelled.
8. Marking Scheme:
   a. If darkened bubble is RIGHT answer : 4 Marks.
   b. If darkened bubble is WRONG answer: -1 Mark (Minus One Mark).
   c. If no bubble is darkened in any question: No Mark.
9. If you are found involved in cheating or disturbing others, then your ORS will be cancelled.
10. Do not put any stain on ORS and hand it over back properly to the invigilator.
11. You can take along the question paper after the test is over.

ALLEN RESULT: JEE ADVANCED-2016

4 in Top 10 | **12** in Top 50 | **25** in Top 100 AIR

AIR 1
Aman Bansal
Classroom

AIR : 2	AIR : 3	AIR : 9	AIR : 18	AIR : 19	AIR : 23
Bhavesh Dhingra	Kunal Goyal	Gaurav Didwania	Rohan Garg	Animesh Bohra	Ritesh Goenka
Classroom	Classroom	Classroom	Classroom	Distance	Classroom

AIR : 27	AIR : 29	AIR : 33	AIR : 36	AIR : 48
Vikrant Garg	Sharvik Mittal	Ishan Tarunesh	Naman Jain	Sushil Khyalia
Classroom	Classroom	Distance	Classroom	Classroom

Total Selections
3883
Classroom : **2857** | Distance : **1026**

ALLEN RESULT: NEET (UG)-2016

7 in Top 10 | **35** in Top 50 | **58** in Top 100 AIR

AIR 1
Het Sanjay Shah
Classroom

AIR : 2	AIR : 3	AIR : 4	AIR : 6	AIR : 7	AIR : 10
Ekansh Goyal	Nikhil Bajiya	Ashank Khaitan	Dyuti Shah	Japnoor Kaur	Utkarsh Anand
Classroom	Classroom	Distance	Distance	Distance	Classroom

AIR : 12	AIR : 13	AIR : 15	AIR : 18	AIR : 19	AIR : 20
Prakhar Bansal	Lajjaben Patel	Gurasis Singh	Swetank Anand	Mahak Kr. Surana	Prachi Singh
Classroom	Classroom	Distance	Classroom	Classroom	Classroom

Total Qualified
33106
Classroom : **26198** | Distance : **6908**

ALLEN RESULT: AIIMS-2016

8 in Top 10 | 25 in Top 36

AIR : 3	AIR : 4	AIR : 5	AIR : 6	AIR : 7	AIR : 8	AIR : 9
Lajjaben Patel	Het Sanjay Shah	Mridul Sharma	Dyuti Shah	Aishvary Gupta	Kushagra Pandey	Ekansh Goyal
Classroom	Classroom	Classroom	Distance	Classroom	Distance	Classroom

AIR : 11	AIR : 12	AIR : 13	AIR : 17	AIR : 19	AIR : 20	AIR : 21
Ira Pachori	Ritik M Goyal	Amol Sood	Ashank Khaitan	Dhruvil D. Shah	Swetank Anand	Ankush Garg
Distance	Classroom	Classroom	Distance	Classroom	Classroom	Classroom

AIR : 23	AIR : 25	AIR : 27	AIR : 28	AIR : 29	AIR : 30	AIR : 31
Sanil Garg	Aditya Agarwal	Vishal Saini	Gurasis Singh	Manavi Gupta	Anubhav Das	Prachi Singh
Distance	Distance	Distance	Distance	Classroom	Distance	Classroom

AIR : 32	AIR : 33	AIR : 36
Japnoor Kaur	Ayush Jain	Sukriti Chaudhri
Distance	Classroom	Distance

AIR 2
Nikhil Bajiya
Classroom

Total Qualified
602
Classroom : 405 | Distance : 197

ALLEN RESULT: JEE Main-2016

8 in Top 100 | 25 in Top 200 | 65 in Top 500 | 136 in Top 1000

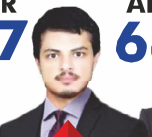| AIR 30	AIR 45	AIR 47	AIR 57	AIR 68	AIR 71	AIR 90	AIR 95
Syamantak Kumar	Mudit Surana	Utkarsh G. Patel	Bhavishya	Kapil Shobhnani	Aman Bansal	Ambatwar Ajinkya G.	Surya Suresh
Classroom	Classroom	Classroom	Distance	Classroom	Classroom	Distance	Distance

AIR-105	AIR-112	AIR -127	AIR -130	AIR-132	AIR-137	AIR-145	AIR-151	AIR-158	AIR-168	AIR-169
Megh V. Thakkar	Shashwat Agrawal	Rohan Garg	Amey Ravindra Patil	Akash Bhardwaj	Rahul Agrawal	Sharvik Mital	Shashwat Shivam	Ankit Dhankhar	Sukriti Gupta	Georgi Joseph Boby
Classroom	Classroom	Classroom	Distance	Classroom	Classroom	Classroom	Distance	Classroom	Distance	Distance

AIR-171	AIR-177	AIR-178			AIR-185	AIR-190	AIR-197
Rushikesh Vitthal	Koustav Yacha	Rahul M. Chanduka			Gavali H. Abhiman	Atri Dutta	Vansh J. Chiripal
Distance	Classroom	Classroom			Distance	Distance	Classroom

26660
Students secured JEE Main
All India Ranks from all Courses of ALLEN

Authenticity of Result : Power of ALLEN
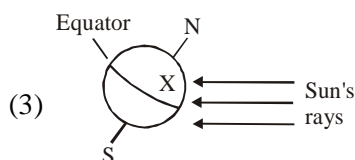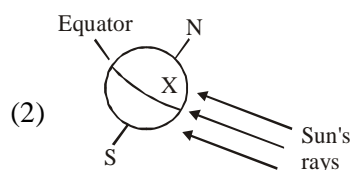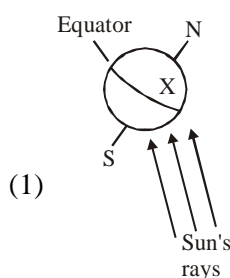
SECTION - A : PHYSICS

This section contains **15 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

1. Which of the following diagrams best represents the angle at which the Sun's rays strike location X at noon on June 21?
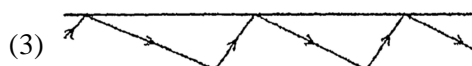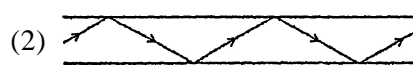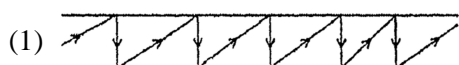

(1)

(2)

(3)

(4)
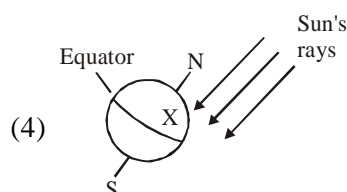
2. The graph shows how the velocity 'v' of a firework rocket changes with time t. At which point on the graph does the rocket have the greatest acceleration?
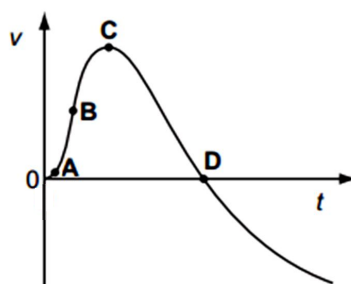

(1) A   (2) B   (3) C   (4) D

3. Which diagram correctly represents reflection of light along an optical fibre?

(1)   (2)

(3)   (4)

4. A bomb at rest explodes into two pieces of equal mass. Then the pieces will fly off

(1) in the same direction with equal speeds   (2) in the same direction with unequal speeds

(3) in opposite direction with equal speeds   (4) in opposite directions with unequal speeds

5. If the velocity of car is increased by 20% then the minimum distance in which it can be stopped increases by

(1) 44%   (2) 55%   (3) 66%   (4) 88%

6. A sound tone is produced in water, when it enters air

(1) λ decreases, and f does not change

(2) both λ and f increase

(3) both λ and f decrease

(4) λ increases and f does not change

**7.** What event will produce the greatest increase in the gravitational force between the two masses ?

|— 0.5 m —|

250 g   150 g
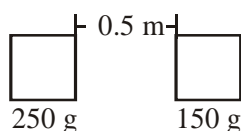
(1) doubling the large mass

(2) doubling the distance between the masses

(3) reducing the small mass by half

(4) reducing the distance between the masses by half.

8. The diameter of Saturn is almost ten times that of the Earth, yet its density is much less. This can best be explained by the fact that Saturn

(1) is farther from the Sun

(2) is a gaseous planet

(3) has a shorter period of rotation

(4) has a ring around its center

9. A fish finder sends ultrasonic waves down the water to determine the location of the fish.

boat

ultrasound waves are transmitted by the boat

The echo (reflected sound)
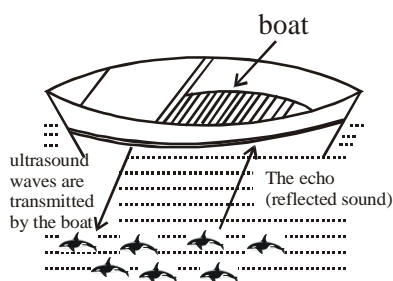
The same principle of reflection of sound is used in

(1) Sonic boom

(2) Sonar

(3) Echocardiography

(4) Ultrasonography

10. If the density of earth increases by 20% and radius decreases by 20% then the new value of "g" on the surface of earth will be :

(1) 0.8 g   (2) 0.90 g   (3) 0.96 g   (4) g

11. A plane mirror forms a virtual image. The distance between Mahima and her image in a plane mirror is 10 m. How much distance should she move in order to get the distance of 5 m between herself and her image ?

(1) 2.5 m away form the mirror

(2) 2.5 m towards the mirror

(3) 5 m away form the mirror

(4) 5 m towards form the mirror

12. The graph below shows distance over time.
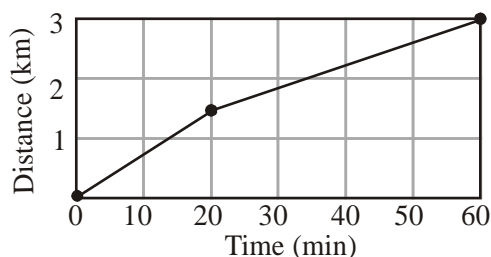
Which of these situations could be represented by this graph?

(1) A student walks 1.5 km to a friend's house in 40 minutes. The two students then walk another 1.5 km to school in 20 minutes.

(2) A student walks 1.5 km to a friend's house in 20 minutes. The two students then walk another 1.5 km to school in 40 minutes.

(3) A student walks 1.5 km to a friend's house in 30 minutes. The two students then walk another 1.5 km to school in 30 minutes.

(4) A student walks 1.5 km to a friend's house in 20 minutes. The two students then walk another 1.5 km to school in 60 minutes.

13. P,Q,R,S and T are five points on a smooth curved rail. Point R is directed along point T as shown in the diagram.
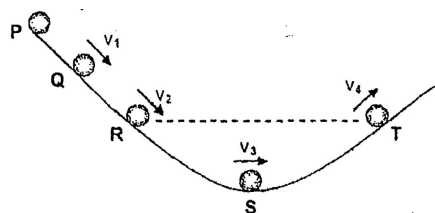
A marble released from rest at point P slides along the rail. The speeds of the marble at points Q, R, S and T are v_1, v_2, v_3 and v_4 respectively. Then which of the following relation is correct?

(1) $v_4 > v_3 > v_2 > v_1$ (2) $v_1 > v_2 > v_3 > v_4$ (3) $v_4 = v_2 > v_3 > v_1$ (4) $v_3 > v_4 = v_2 > v_1$

14. A student jumps off a sled toward the west after it stops at the bottom of an icy hill.
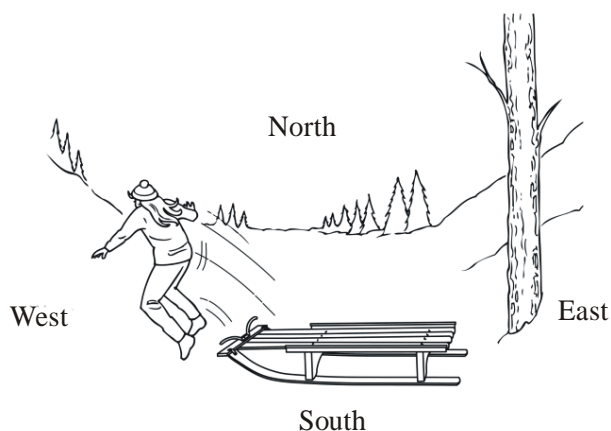
In what direction will the sled most likely move as the student jumps off?

(1) North   (2) South   (3) East   (4) West

15. The minute hand of a clock is 4 cm long. The average velocity of the tip of the minute hand between 11:00 am to 11:30 am is

(1) 1.5×10^{-5} m/s   (2) 4.5×10^{-5} m/s   (3) 1.8×10^{-6} m/s   (4) 3.5×10^{-6} m/s
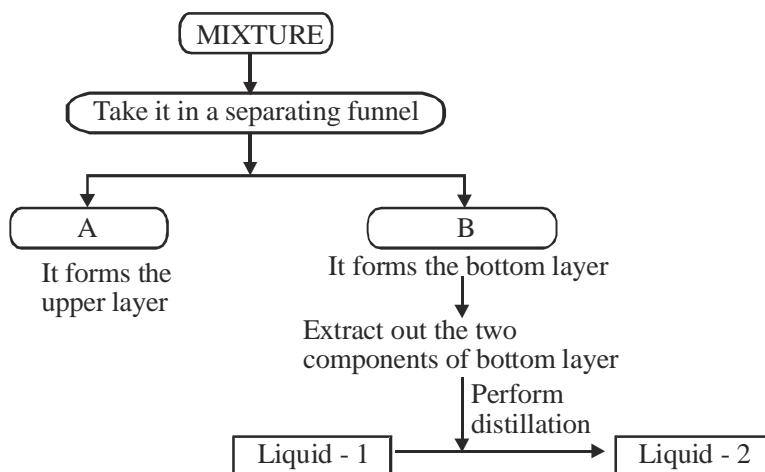
SECTION-B : CHEMISTRY

This section contains **15 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

16. Arrange the different types of coal in the increasing order of their quality.

(a) Lignite   (b) Peat   (c) Anthracite   (d) Bituminous

(1) acdb   (2) dbca   (3) badc   (4) bcda

17. German silver is an alloy of

(1) Cu, Ni and Sn   (2) P, Cu and Ag   (3) Cu, Zn and Sn   (4) P, Cu and As

18. Element used for making solar cells, transistors and computer chips is

(1) Phosphorus   (2) Silicon   (3) Iron   (4) Sulphur

19. Total amount of heat produced by a fuel having calorific value of 30 kJ/kg was found to be 60,000 Joules. How much fuel was burnt ?

(1) 2000 kg   (2) 200 kg   (3) 20 kg   (4) 2 kg

20. Forest fire is an example of

(1) slow combustion   (2) rapid combustion

(3) spontaneous combustion   (4) explosion

21. The liquid and its vapours at boiling point are at equilibrium. The molecules of the two phases have equal

(1) potential energy   (2) forces   (3) total energy   (4) kinetic energy

22. The boiling points of diethyl ether, acetone and n-butyl alcohol are 35°C, 56°C and 118°C respectively. Which one of the following correctly represents their boiling points in kelvin scale?

(1) 306 K, 329 K, 391 K   (2) 308 K, 329 K, 392 K

(3) 308 K, 329 K, 391 K   (4) 329 K, 392 K, 308 K

23. The solubility of potassium chloride in water at 20ºC is 34.7 g in 100 g of water. The density of solution is 1.3 g/ml. Calculate the % of mass/volume concentration of potassium chloride.

(1) 25.76%   (2) 33.49%   (3) 24.7%   (4) 1.3%

24. Which one of the following processes results in the formation of a new chemical compound ?

(1) Dissolving common salt in water   (2) Heating water

(3) Heating platinum rod   (4) Heating calcium carbonate

25. Water is used to extinguish fire because water

(1) raise the ignition temperature of the burning substance.

(2) lowers the ignition temperature of the burning substance.

(3) cools the burning substance to a temperature below its ignition temperaure.

(4) conducts the heat.

26. The table shows the melting and boiling points of four pure substances.

Which substance is a liquid at room temperature and rapidly evaporates if left exposed to air?

Substance	Melting point/°C	Boiling point/°C
A	-100	-35
B	-7	58
C	-6	225
D	44	280

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

27. Goldsmith uses _____ zone of the flame for melting gold.

(1) Outermost zone   (2) Middle zone   (3) Innermost zone   (4) Both (2) & (3)

28. Arrange the given combustible substances in decreasing order of calorific value.

(a) Hydrogen   (b) Charcoal   (c) Petrol

(d) L.P.G   (e) Wood

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

29. Which of the following statements is true about the evaporation of water from an open container?

(1) Evaporation is slower when there is a breeze.

(2) Evaporation takes place faster on a humid day.

(3) The process of evaporation gives off energy.

(4) Some water particles leave the surface and become part of the air.

30. Identify A and B in the given flow-chart.

(1) (A)-Kerosene and Water, (B)-Common salt

(2) (A)-Oil and Water, (B)-Common salt

(3) (A)-Oil, (B)-Alcohol and Water

(4) (A)-Water, (B)-Common salt and Oil

SECTION-C : BIOLOGY

This section contains **15 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

31. Who is/are "Father of Green Revolution" ?
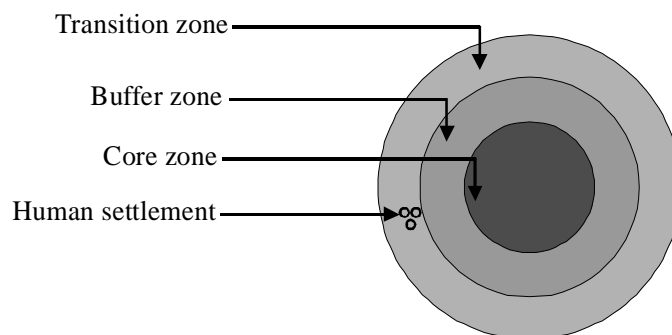
(1)

Norman borlaug

(2)
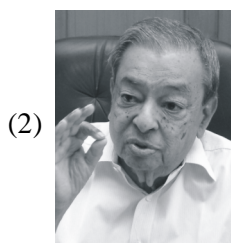
Dr. V. Kurein

(3) Norman borlaug and Dr. V. Kurein both are the Father of Green Revolution.

(4) None of these

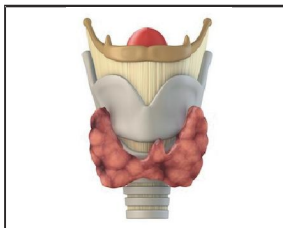**32.** Select the zone from the below image where no human activity is allowed.

Transition zone

Buffer zone

Core zone

Human settlement

(1) Transition zone   (2) Core zone   (3) Buffer area   (4) None of the above

33. Shown here are some drawings of structures that are found in our bodies. They are all at different magnifications.

Blood vessel   Thyroid gland   Organs   Nucleus of a cell
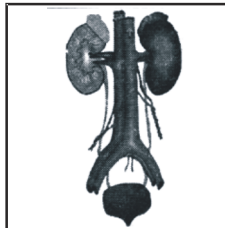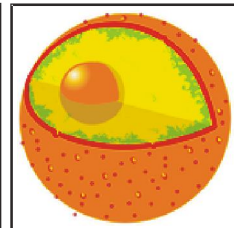
Which one of them is drawn at the highest magnification?

(1) Blood vessel   (2) Thyroid gland   (3) Organs   (4) Nucleus of a cell

34. Identify A to E in the sectional view of a chloroplast given below.
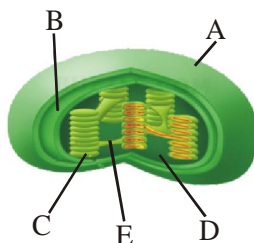
(1) A-Inner membrane, B-Granum, C-Outer membrane, D-Stromal lamellae E-Stroma

(2) A-Outer membrane, B-Inner membrane, C-Thylakoid D-Stroma, E-Stromal lamellae

(3) A-Thylakoid, B-Outer membrane, C-Stroma, D-Stromal lamellae, E-Granum

(4) A-Outer membrane, B-Stroma, C-Inner membrane, D-Granum, E-Thylakoid

35. Which of the following option is correct regarding the diagram given below?
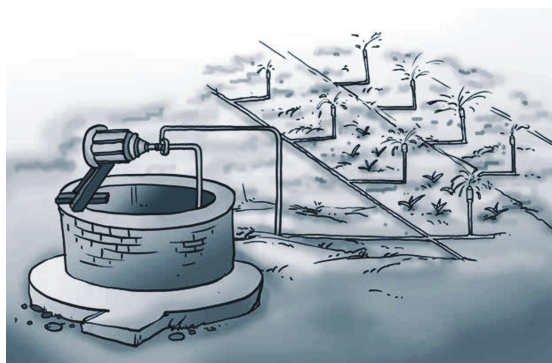
Sprinkler system of irrigation

(1) It is useful for sandy soil and even land.

(2) It is useful for loamy soil and even land.

(3) It is useful for loamy soil and uneven land.

(4) It is useful for sandy soil and uneven land

36. Find out the correct sentences about manure.

(i) Manure reduces soil erosion.

(ii) Manure improves the texture of soil by adding organic matter.

(iii) Manure decreases water holding capacity.

(iv) Manure decreases the number of friendly microbes.

(1) (i) and (iii)   (2) (i) and (ii)

(3) (ii) and (iii)   (4) (iii) and (iv)

37. The Black Rhino is killed for its

(1) Ivory   (2) Fur   (3) Horn   (4) Meat

38. The new baby's genetic / inherited material is carried in the
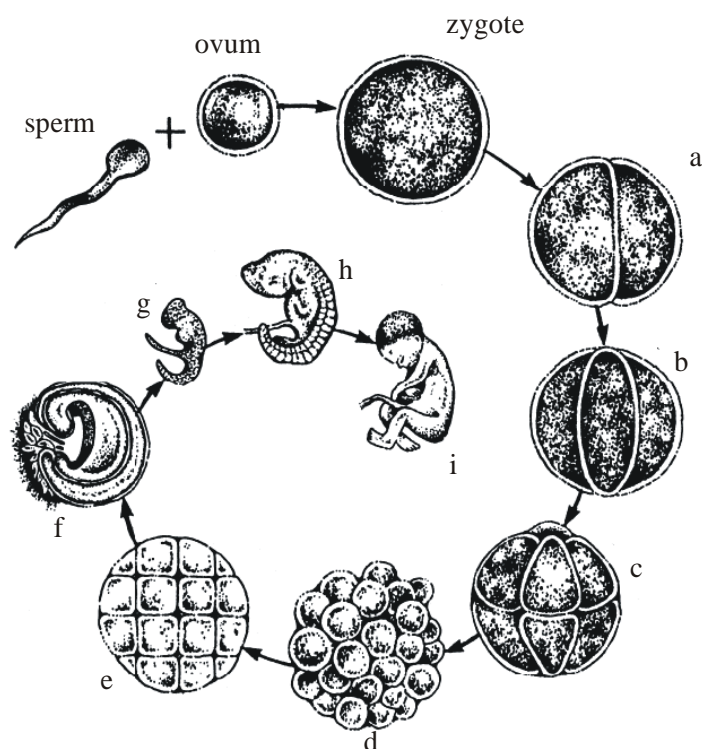
(1) sperm cell   (2) ovum
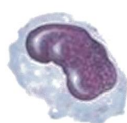
(3) sperm cell and ovum   (4) sperm and body cell

39. Which of the following blood cells are phagocytic in nature?
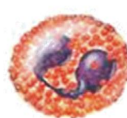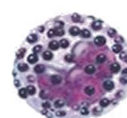

(1) Eosinophil and Basophil   (2) Erythrocyte and Monocyte

(3) Lymphocyte and Platelet   (4) Neutrophil and Monocyte

40. Which of the following practices involve in organic farming ?

(1) Use of biofertilizers

(2) Crop rotation

(3) Both (1) and (2)

(4) Use of chemical pesticides

41. Use of contraceptive pills by female inhibits which step of reproductive cycle

(1) Ovulation

(2) Ejaculation

(3) Insemination

(4) Fertilization

42. There are some microorganisms which decompose the waste products and remain of dead plant and animals. This helps in keeping the environment clean. Which of the following can do this ?

(1) Pitcher plant

(2) Tiger

(3) Bacteria

(4) Tree
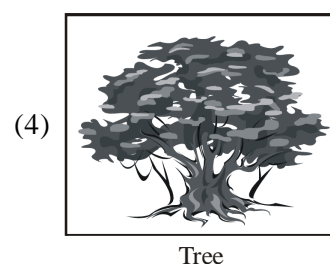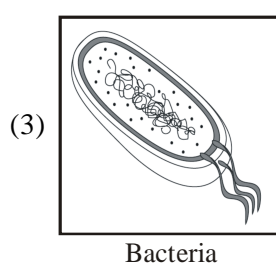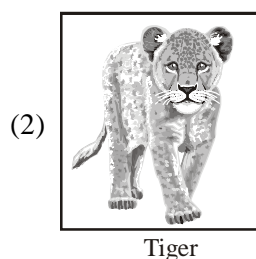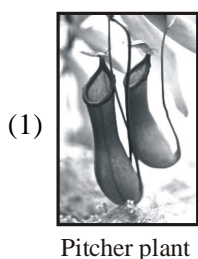
43. Which diagram best illustrates the relationship among the number of cells, tissues, and organs in a complex multicellular organism?

(1) Organs — Cells, Tissues

(2) Cells, Tissues, Organs

(3) Tissues, Organs, Cells

(4) Cells, Tissues, Organs
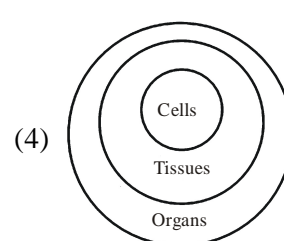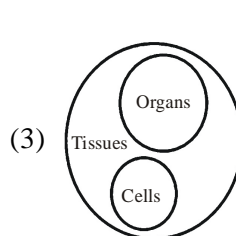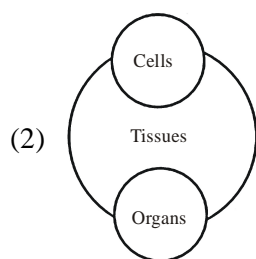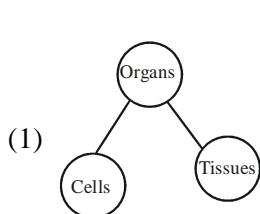
44. Study the diagram given below. In this diagram RBC's show crenation then this solution will be
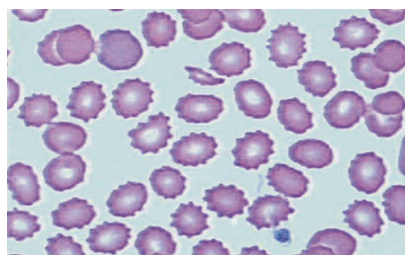
(1) Hypotonic

(2) Isotonic

(3) Hypertonic

(4) None of these

45. Living organisms are madeup of building blocks called cells. They may differ in size, in the way they look and in what they are used for. Look at the pictures of different cells.
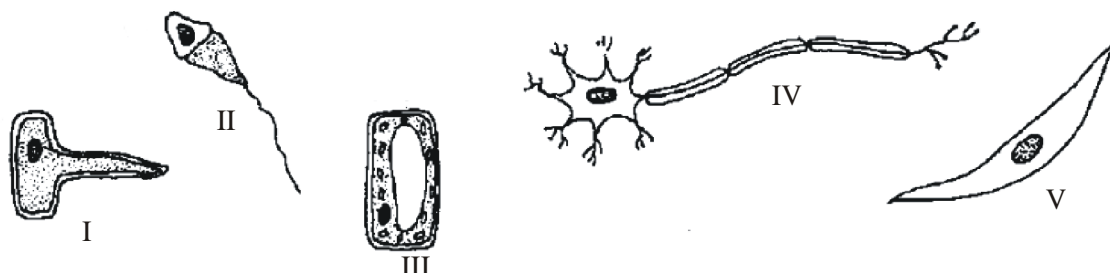
Which diagrams represent plant cells?

(1) III and IV   (2) II and V   (3) I and III   (4) I and IV

SECTION-D : MATHEMATICS

This section contains **15 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

46. The unit's digit in the product of first 50 odd natural numbers is

(1) 0   (2) 5   (3) 7   (4) None of these

47. Find the quotient if we divide $x^7y - xy^7$ by $(x+y)(x^2 - xy + y^2)$

(1) $xy(x^3 + y^3)$ (2) $(x^3 + y^3)$ (3) $xy(x^3 - y^3)$ (4) $(x^3 - y^3)$

48. If $3^{x+3} \cdot 9^{2x-5} = 3^{3x+7}$, then the value of x is

(1) 3   (2) 4   (3) 6   (4) 7

49. Factorize : $p^2 + q^2 - a^2 - b^2 + 2pq + 2ab + p + q - a + b$

(1) (p + q − a + b)(p + q + a − b + 1)   (2) (p − q − a + b)(p − q + a − b + 1)

(3) (p + q + a + b)(p + q + a − b + 1)   (4) (p + q − a − b)(p + q + a − b + 1)

50. If $r^3 = 1728$ and $s = (6859)^{1/3}$, then $s^2 - r^2$ is

(1) 217   (2) 341   (3) 534   (4) 231

51. The number $107^{90} - 76^{90}$ is divisible by

(1) 61   (2) 62   (3) 64   (4) None of these

52. What is the value of $x^3 - 3b^{\frac{2}{3}}x + 9a$, if $x = \left(2a + \sqrt{4a^2 - b^2}\right)^{1/3} + \left(2a - \sqrt{4a^2 - b^2}\right)^{1/3}$?

(1) 12a   (2) 13a   (3) 14a   (4) None of these

53. Find x : $[3+\{2+(1+x^2)^2\}^2]^2 = 144$
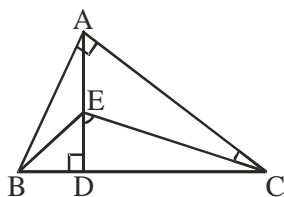
(1) 1   (2) 0   (3) 5   (4) 6

54. If a wire is bent into the shape of a square, then the area of the square is 81 sq. cm. When the wire is bent into a semi-circular shape, the area of the semi-circle will be: (take $\pi = \dfrac{22}{7}$)

(1) 22 cm^2 (2) 44 cm^2 (3) 77 cm^2 (4) 154 cm^2

55. In ΔABC, if $\angle ABD = 64°$, what is the measure of $\angle DEC - \angle ACE$?

(1) 66°

(2) 64°

(3) 60°

(4) 54°

56. ABCD is a parallelogram in which $\angle DAO = 40°$, $\angle BAO = 35°$ and $\angle COD = 65°$ where point O is intersection point of diagonals then $\angle ODC = $ ....

(1) 80°   (2) 105°   (3) 25°   (4) None of these

**57.** If two lines intersect X axis at (–1, 0) and (10, 0) and Y axis at (0, 1) and (0, 10) and intersect each other at (4, 5) then find the difference between area of triangle formed by the lines along with X axis and area of triangle formed by lines along with Y axis.

(1) $\dfrac{19}{2}$ sq units   (2) 7 sq units   (3) 14 sq units   (4) None of these

58. Three pumps working 8 hours a day can empty a tank in 2 days. How many hours a day must 4 pumps work to empty the tank in 1 day ?

(1) 13 hours   (2) 12 hours   (3) 10 hours   (4) 9 hours

59. If the area of the quadrilateral ABCD ($\angle B= 90°$) is $(a + 20\sqrt{b})$ cm^2 (where a is area of ΔABC), then the value of a + b is
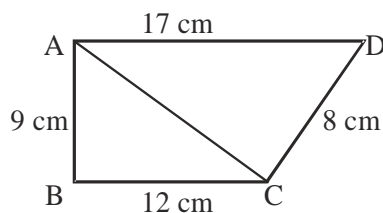
(1) 54   (2) 63   (3) 85   (4) none of these

60. Factorize $(x + y + z)^2 - (x + y - z)^2$

(1) $2(x + y + z)(x + y - z)$

(2) $(x + y + z)(x + y - z)$

(3) $4z(x + y)$

(4) $(x + y + z)(x - y - z)$

SECTION-E : MENTAL ABILITY

This section contains **20 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

61. Kunal travels 10 m from his shop and turns to his left. After that he turns to right from the crossing. After moving certain yards, he turns to left and again turns to left after moving some distance. Finally, he turns to right. If at final position he is facing North direction, then which direction he was facing while coming out of his shop ?

(1) South   (2) West   (3) East   (4) North

62. Two ladies and two men are playing a bridge game (cards) and are seated around a square table. No lady is facing towards East. Persons sitting opposite to each other are not of the same sex. One man is facing towards South. Which directions are the ladies facing ?

(1) East and West

(2) South and East

(3) North and East

(4) North and West

63. In a certain code language, QUEUE is written as Q22, and CHURCH is written as 1UR1. Which of the following would be most appropriate code for BANANA in that language ?

(1) B5A5   (2) 5N5A   (3) B55A   (4) BA5A5A

64. Kritik ranked 16th from the top and 29th from the bottom among those who has passed an examination. Six children do not participate in the examination and five failed in it. How many children are there in the class ?

(1) 40   (2) 44   (3) 50   (4) 55

65. Two equi dimensional cubes are joined face to face and are coloured red on all of their available open faces. One cube is then cut into eight equal smaller cubes and the other cube is cut into 27 smaller cubes. How many smaller cubes have two of their faces coloured ?
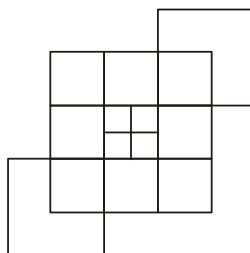
(1) 10   (2) 12   (3) 16   (4) 18

66. Find the number of squares in the given figure.
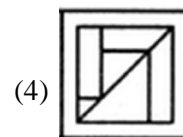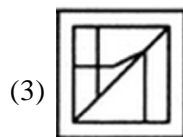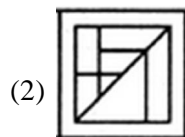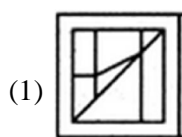

(1) 19   (2) 20   (3) 18   (4) 16

67. In a certain code KETTLE is coded as 252235, ROUGH is coded as 96378. What is the code of TALENT ?

(1) 213562   (2) 251362   (3) 213552   (4) 251335

68. Find the alternative figure which contains figure (X) as its part.

(X)

(1)   (2)   (3)   (4)

69. A series of small letters is given which follow a certain pattern. However some letters are missing from the series. You have to find out the right set of letters from alternative that can be inserted into the blanks of the series.

_a_b_abaa_bab_abba

(1) aaabb   (2) ababb   (3) babab   (4) babba

70. Choose the box that is similar to the box formed from the given sheet of paper (X) :

(X)   (1)   (2)   (3)   (4)

(1) 1 only   (2) 1 and 3 only   (3) 1, 3 and 4 only   (4) 1, 2, 3 and 4
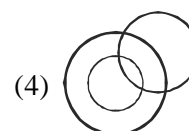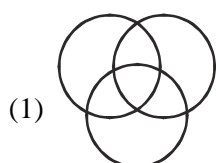
71. If a means +, b means – , c means × and d means ÷ , then

16 c 12 b 6 d 2 a 17 = ?

(1) 172   (2) 192   (3) 206   (4) None of these

72. Out of the four figures that follow, you are to indicate which figure will best represent the relationship amongst the three classes.

"Boys, Students, Athletes"

(1)   (2)   (3)   (4)

73. Find the missing character in the given figure.

6	7	17
8	8	20
2	3	?

(1) 7   (2) 16   (3) 10   (4) 45

74. There are three circles A, B and C in the figure, which represents the number of students who got distinction in Physics, Chemistry and Mathematics respectively. The total number of candidates passed is 500. Observe the diagram given below and find out the total percentage of students who got distinction in all the three subjects ?
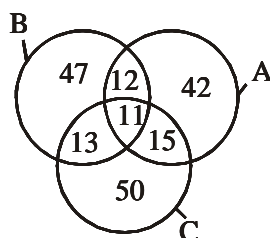
(1) 7.2   (2) 5.2   (3) 3.2   (4) 2.2

75. Pointing to a woman, a girl said, 'She is the only daughter-in-law of the grandmother of my father's son'. How is the woman related to the girl ?

(1) Sister   (2) Cousin

(3) Mother   (4) Aunt

76. Pick up from the answer figures, one which will continue the series to the problem figures.

Problem figures   Answer figures
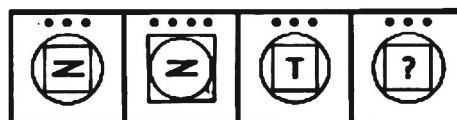
77. If A + B means 'A is the daughter of B'

A × B means 'A is the son of B'.

A – B means 'A is the wife of B'.

Given T – S × B – M, which of the following is not true ?

(1) B is the mother of S.   (2) M is the husband of B.

(3) S is the daughter of B.   (4) T is the wife of S.

78. Choose the Mirror Image of the given figure (X).

(X)

(1)   (2)   (3)   (4)
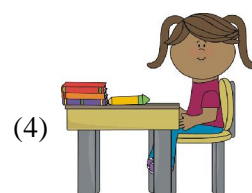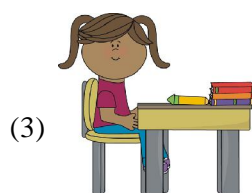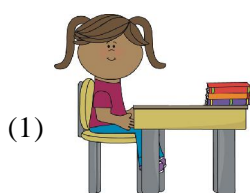
79. Find the missing number in the series.

13, 16, 22, 26, 38, 62, ?, 102

(1) 74   (2) 89   (3) 70   (4) 90

80. Choose the Water Image of the given figure (X).

(X)

(1)   (2)   (3)   (4)
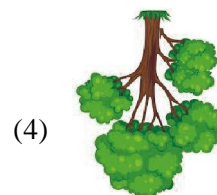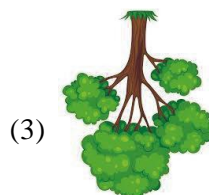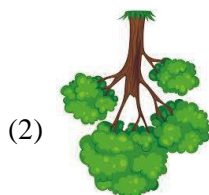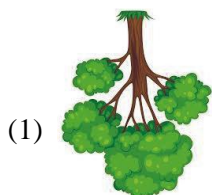
SPACE FOR ROUGH WORK

ALLEN System

Orientation Session

Classroom Session

Prarthana

Open Session & Medal Distributions

Regular Test
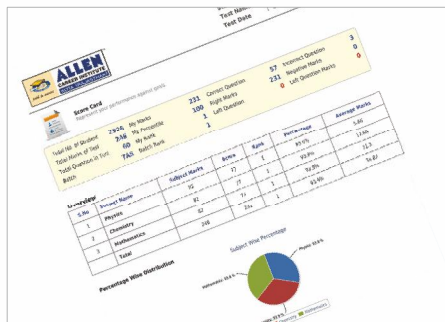
Test Result - (CSAT)

Continuous Communication

Doubt Removal Counters

Online Practice Lab

Comprehensive Study Material	Ultimate Care	Board Work Sheets, Booklets
RACE : Regular Analysis through Continuous Exercise	Best Faculties	Expert Counselling

संस्कार महोत्सव एवं कल्याणोत्सव, कोटा

International Chemistry Olympiad

48th International Chemistry Olympiad
IChO-2016
TBILISI, GEORGIA

Silver Medal
SHARVIK MITTAL

International Physics Olympiad

47th International Physics Olympiad
IPhO-2016
SWITZERLAND

Silver Medal
DIVYANSH GARG
(Classroom)

International Biology Olympiad

27th International Biology Olympiad
IBO-2016
HANOI, VIETNAM

Gold Medal
LAJJA BEN PATEL
(Classroom)

Silver Medal
VIDUSHI VARSHNEY
(Classroom)

International Earth Science Olympiad

10th International Earth Science Olympiad
(IESO) 2016
JAPAN

Silver Medal
AMARJIIT VIKAS PANDE
(Classroom)

ALLEN Results : Pre-Nurture & Career Foundation (2015-16)

STAGES OF OFFICIAL OLYMPIADS MENTORED BY HBCSE

IJSO

STAGE 1
35 Selections in NSEJS
STAGE 2
16 Selections in INJSO
STAGE 3
3 Selections in OCSC
NISHANT ABHANGI
**AYUSHMAN TRIPATHY**
GAURANG
selected for IJSO 2016

International Junior Science Olympiad

IBO

STAGE 1
3 Selections in NSEB
STAGE 2
3 Selections in INBO
STAGE 3
3 Selections in OCSC
VIDUSHI VARSHNEY
Got Silver Medal In IBO 2016

International Biology Olympiad

JEEVESH is the youngest in the country so far to qualify stage-1 of IBO

IChO

STAGE 1
1 Selection in NSEC
DHYEY SANKALP GANDHI
is the youngest in the country so far to qualify stage-1 of IChO

International Chemistry Olympiad

IOAA

STAGE 2
RAYYAN SHAHID
selected in INJAO 2016

International Astronomy Olympiad Junior

IMO

STAGE 1
190 Selections
from Gujarat & 11 from Maharashtra for RMO through PRE RMO.
3 STUDENTS SECURED 100% MARKS
STAGE 2
14 Selections in RMO for INMO

International Maths Olympiad

IESO

STAGE 1
NET – 6 Selections Conducted by Geological Society of India

International Earth Science Olympiad

IJSO

12th International Junior Science Olympiad
(IJSO) 2015
KOREA

Gold Medal
BHASKAR GUPTA
(Classroom)

Gold Medal
LAKSHYA SHARMA
(Classroom)

Silver Medal
VIDUSHI VARSHNEY
(Classroom)

International Junior Science Olympiad

APTITUDE IN SCIENCE / MATHEMATICS

NSO

571 Selections in NSO (Level-1)

NISHANT ABHANGI: AIR-1 (Level-2)

Conducted by Science Olympiad Foundation, New Delhi

NSO National Science Olympiad

STSE 2015

36 Selections for Scholar Certificate

155 Selections for Distinction Certificate

Conducted by Rajasthan Board of Secondary Education

STSE State Talent Search Examination

NSTSE

232 Selections in NSTSE (Level-1)

63 Selections in NSTSE (Level-2)

NISHANT ABHANGI: AIR-1 (Level-2)

Conducted by Unified Council, Hyderabad

NSTSE National Science Talent Search Examination

NTSE

239 Students Selected From ALLEN

NTSE 2016 (STAGE-2)

2011	2012	2013	2014	2015	2016
5	15	34	83	123	239
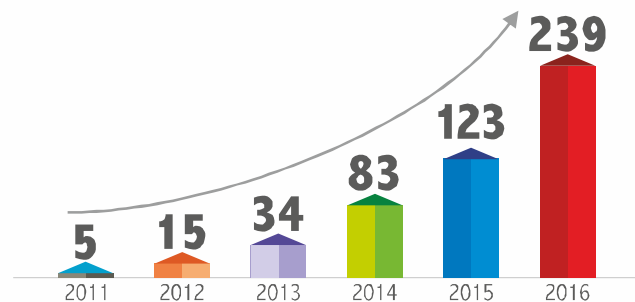
APTITUDE IN MATHEMATICS

NMTC

274 Selections in NMTC (Prelim)

17 Selections in NMTC (Final)

Conducted by Association of Mathematics Teachers of India, Chennai

NMTC National Mathematics Talent Contest

IMO (SOF)

370 Selections in IMO (Level-1)

Conducted by Science Olympiad Foundation, New Delhi

IMO International Mathematics Olympiad

APTITUDE IN INFORMATION TECHNOLOGY

UCO

140 Selections in UCO (Level - 1)

59 Selections in UCO (Level - 2)

Conducted by Unified Council, Hyderabad

UCO Unified Cyber Olympiad

SCIENTIFIC APTITUDE

BALSHREE HONOUR

14 Selections in Balshree in Local Round Rajasthan-7 | Gujrat-5 Madhya Pradesh-2)

Conducted by National Bal Bhavan

Consist of Plaque, Citation, ₹15000 & Literature set

LANGUAGE PROFICIENCY

TRINITY GESE

38 Selections in TRINITY GESE
Distinction : 21
Merit : 17

Conducted by Trinity College, London

GESE Grade Examination for Spoken English

WORKSHOP/CONFERENCES

NMC

9 Selections in NMC Including Ranks 1,2,3 & 4

Conducted by Association of Mathematics Teachers of India, Chennai

NMC National Maths Conference

APTITUDE IN INTELLIGENCE QUATIENT (IQ)

TECHNOTHLON PRELIMS 2015

20 Students (10 Teams) Selected for Techniche

29 Selections for Silver Certificate in Technothlon Prelims

Conducted by IIT Guwahati

TECHNICHE 2015

2 Students (1 Team)
KHUSHI TIBAREWAL
STUTI SHAH
won Junior Squad in Techniche

Conducted by IIT Guwahati

TECHKRITI

7 Students (Including AIR-1 & AIR-3) Selected in Techkriti

Conducted by IIT Kanpur

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Answer Key

Class- 9th (IX)

Held on : 09 October 2016

Q. No.	Ans.
1	3
2	2
3	2
4	3
5	1
6	1
7	4
8	2
9	2
10	3
11	2
12	2
13	4
14	3
15	2
16	3
17	1
18	2
19	4
20	3

Q. No.	Ans.
21	4
22	3
23	2
24	4
25	3
26	2
27	1
28	2
29	4
30	3
31	1
32	2
33	4
34	2
35	4
36	2
37	3
38	3
39	4
40	3

Q. No.	Ans.
41	1
42	3
43	4
44	3
45	3
46	2
47	3
48	4
49	1
50	1
51	1
52	2
53	2
54	3
55	2
56	1
57	1
58	2
59	2
60	3

Q. No.	Ans.
61	3
62	4
63	3
64	4
65	3
66	2
67	3
68	4
69	4
70	1
71	3
72	1
73	1
74	4
75	3
76	1
77	3
78	3
79	1
80	3

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