

A Specially Designed Initiative
to Encourage Young Talent by



TALLENTEX 2017 : (23, October 2016)

PAPER CODE

M

TALLENTEX

ALLEN'S Talent Encouragement Exam

2017

CLASS - 8th (VIII)

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 : 2	AIR : 3	AIR : 9	AIR : 18	AIR : 19	AIR : 23
Bhavesh Dhingra Classroom	Kunal Goyal Classroom	Gaurav Didwania Classroom	Rohan Garg Classroom	Animesh Bohra Distance	Ritesh Goenka Classroom
AIR : 27	AIR : 29	AIR : 33	AIR : 36	AIR : 48	
Vikrant Garg Classroom	Sharvik Mittal Classroom	Ishan Tarunesh Distance	Naman Jain Classroom	Sushil Khyalia 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 : 2	AIR : 3	AIR : 4	AIR : 6	AIR : 7	AIR : 10
Ekansh Goyal Classroom	Nikhil Bajiya Classroom	Ashank Khaitan Distance	Dyuti Shah Distance	Japnoor Kaur Distance	Utkarsh Anand Classroom
AIR : 12	AIR : 13	AIR : 15	AIR : 18	AIR : 19	AIR : 20
Prakhar Bansal Classroom	Lajjaben Patel Classroom	Gurasis Singh Distance	Swetank Anand Classroom	Mahak Kr. Surana Classroom	Prachi Singh Classroom

Total Qualified

33106

Classroom : 26198 | Distance : 6908

ALLEN RESULT: AIIMS-2016


























8 in Top 10 | 25 in Top 36



AIR : 3 Lajjaben Patel Classroom	AIR : 4 Het Sanjay Shah Classroom	AIR : 5 Mridul Sharma Classroom	AIR : 6 Dyuti Shah Distance	AIR : 7 Aishvary Gupta Classroom	AIR : 8 Kushagra Pandey Distance	AIR : 9 Ekansh Goyal Classroom
AIR : 11 Ira Pachori Distance	AIR : 12 Ritik M Goyal Classroom	AIR : 13 Amol Sood Classroom	AIR : 17 Ashank Khaitan Distance	AIR : 19 Dhruvil D. Shah Classroom	AIR : 20 Swetank Anand Classroom	AIR : 21 Ankush Garg Classroom
AIR : 23 Sanil Garg Distance	AIR : 25 Aditya Agarwal Distance	AIR : 27 Vishal Saini Distance	AIR : 28 Gurasis Singh Distance	AIR : 29 Manavi Gupta Classroom	AIR : 30 Anubhav Das Distance	AIR : 31 Prachi Singh Classroom
AIR : 32 Japnoor Kaur Distance	AIR : 33 Ayush Jain Classroom	AIR : 36 Sukriti Chaudhri Distance	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  Syamantak Kumar Classroom	AIR 45  Mudit Surana Classroom	AIR 47  Utkarsh G. Patel Classroom	AIR 57  Bhavishya Distance	AIR 68  Kapil Shobhnani Classroom	AIR 71  Aman Bansal Classroom	AIR 90  Ambatwar Ajinkya G. Distance	AIR 95  Surya Suresh Distance			
AIR-105  Megh V. Thakkar Classroom	AIR-112  Shashwat Agrawal Classroom	AIR -127  Rohan Garg Classroom	AIR -130  Amey Ravindra Patil Distance	AIR-132  Akash Bhardwaj Classroom	AIR-137  Rahul Agrawal Classroom	AIR-145  Sharvik Mital Classroom	AIR-151  Shashwat Shivam Distance	AIR-158  Ankit Dhankhar Classroom	AIR-168  Sukriti Gupta Distance	AIR-169  Georgi Joseph Boby Distance
AIR-171  Rushikesh Vitthal Distance	AIR-177  Koustav Yacha Classroom	AIR-178  Rahul M. Chanduka Classroom	26660 Students secured JEE Main All India Ranks from all Courses of ALLEN				AIR-185  Gavali H. Abhiman Distance	AIR-190  Atri Dutta Distance	AIR-197  Vansh J. Chiripal Classroom	

Authenticity of Result : Power of ALLEN

TALLENTEX Success Power Session & Rewards Ceremony

(29 November 2015)



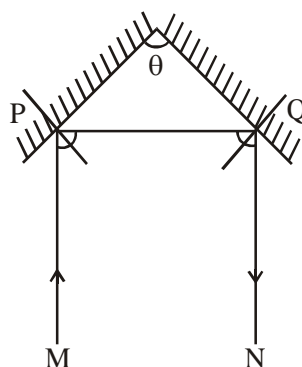
SECTION - A : PHYSICS

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

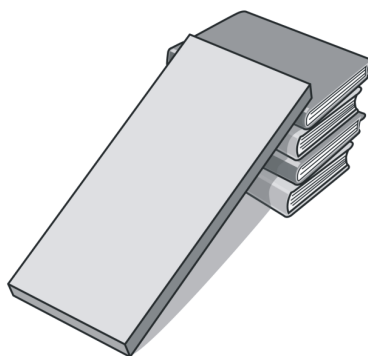
1. A square mat of side 1.2 m floats on the sea. The atmospheric pressure is 10^5 Pa. What is the total force acting on the mat by the atmosphere?



- (1) 0 N (2) 1.20×10^5 N (3) 1.44×10^5 N (4) 8.30×10^4 N
2. If incident ray MP and reflected ray QN are parallel to each other then the angle between the mirrors is



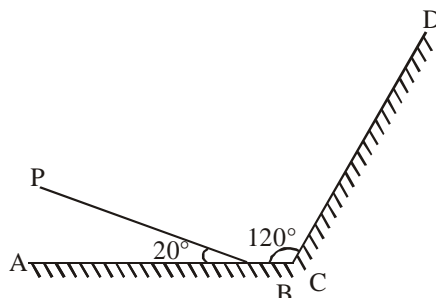
- (1) 90° (2) 180° (3) 270° (4) 360°
3. A student rolls a ball down the ramp shown in the picture below. The ramp is supported by four stacked books.



The student removes two books from the stack supporting the ramp and rolls the ball down the ramp again. Which of the following statements best describes how the ball's motion is different after the books are removed?

- (1) The ball accelerates more quickly down the ramp.
 (2) The ball has a higher speed at the top of the ramp.
 (3) The ball takes more time to reach the bottom of the ramp.
 (4) The ball has a higher speed when it rolls off the ramp.

4. Figure shows a ray of light P striking a mirror AB. The mirror AB and mirror CD make an angle of 120° with each other.



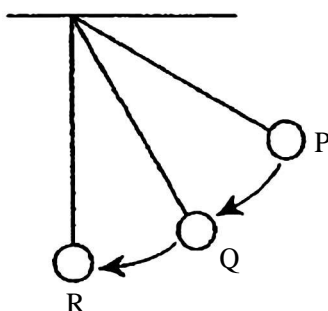
What is the angle of reflection at CD ?

- (1) 50° (2) 40° (3) 30° (4) 90°
5. A faulty thermometer has its fixed point marked 5°C and 95°C . This thermometer reads the temperature of a body as 59° . The correct temperature on Celsius scale is
- (1) 59°C (2) 8.6°C
(3) 60°C (4) 58°C
6. Study the following cartoon.



The child's temperature is likely to be

- (1) 31°C (2) 39°C
(3) 37°C (4) 100°C
7. A pendulum is released from P. It takes 0.2 s to swing from P to Q and another 0.2 s from Q to R. The pendulum is at its lowest point at R. What is the frequency of pendulum?



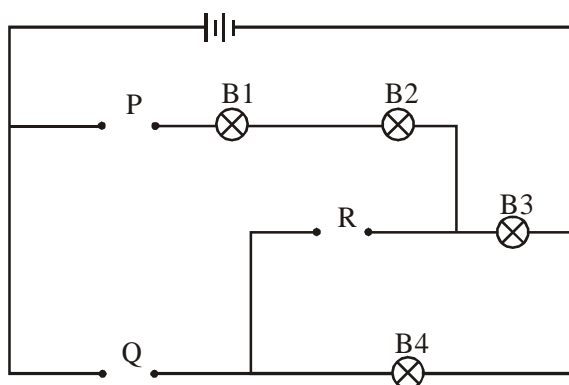
- (1) 0.63 Hz (2) 1.30 Hz
(3) 1.60 Hz (4) 2.00 Hz
8. Which of these transmits sound the fastest?
- (1) Water in a pool (2) A metal rod
(3) Air in a balloon (4) Empty space

9. The figure below shows how the word "ambulance" is painted on the front of some vehicles so that it reads correctly in the rear view mirror that is attached to the windshield of a car driving in front of the ambulance.

AMBULANCE

The word is painted this way because the mirror

- (1) turns the word upside down
 - (2) reverses the left and the right sides of objects
 - (3) rotates the objects by 90 degrees
 - (4) makes the objects appear farther away
10. A simple pendulum takes 32 sec to complete 20 oscillations. What is the time period of pendulum?
- (1) 20 sec
 - (2) 640 sec
 - (3) 1.6 sec
 - (4) 32 sec
11. A student placed three rods, X, Y, and Z, of unknown materials in various positions in the circuit diagram shown below.



The results of the experiment conducted by the student were recorded in the table below. A tick (✓) in the box meant that the bulb lighted up.

Positions at which the rods were placed			Bulbs			
P	Q	R	B1	B2	B3	B4
X	Y	Z	×	×	×	✓

Using only the information given above a tick (✓) is marked in the correct boxes to show which lamps(s) lighted up. Choose the correct option.

	Positions at which the rods were placed			Bulbs			
	P	Q	R	B1	B2	B3	B4
(1)	Z	Y	X	×	×	✓	✓
(2)	Y	Z	X	✓	✓	✓	×
(3)	Z	X	Y	×	×	×	✓
(4)	X	Y	Z	×	✓	×	✓

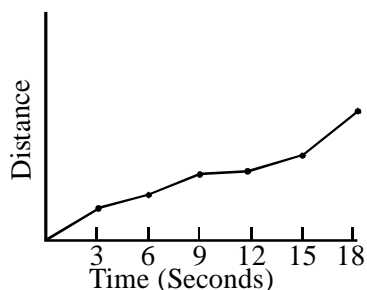
12. Nitin conducted an experiment to find out if the number of coils around an iron nail affects the strength of the electromagnet. He recorded his results in the table below.

Number of coils	Number of iron paper clips attracted to the electromagnet
3	7
4	10
5	13
6	16

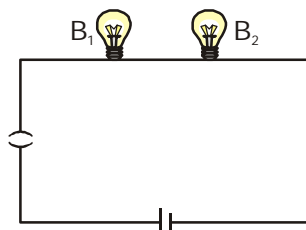
How does the number of coils around the iron nail affect the strength of the electromagnet?

	Number of coils	Strength of electromagnet
(1)	Increases	Increases
(2)	Decreases	Increases
(3)	Increases	Decreases
(4)	Decreases	Remains the same

13. Virat takes 15 minutes from his house to reach his school on bicycle. If speed is 2 m/s then find the distance between his house to school.
- (1) 7.5 m (2) 30 m
 (3) 1.8 km (4) 15 km
14. Look at the following graph that shows the distance covered by a girl riding a bicycle over a period of time. During which time period was she travelling fastest?



- (1) 0 - 9 seconds (2) 9 - 10 seconds
 (3) 10 - 15 seconds (4) 15 - 18 seconds
15. When switch is in 'off' position

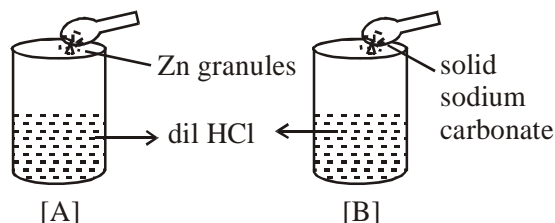


- (1) current will flow through circuit (2) bulbs will glow
 (3) bulbs will not glow (4) circuit is closed

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. A student took two beakers containing 2ml of dilute HCl and add Zn granules to beaker (A) and solid sodium carbonate to beaker (B) as shown below.



The correct observation would be

- (1) rapid reaction in both the beakers
 - (2) slow reaction in (A) but rapid reaction in (B)
 - (3) rapid reaction in (A) but slow reaction in (B)
 - (4) No reaction in any case
17. A salt formed by the partial neutralization of hydroxyl ions of a base by an acid is called_____.
- (1) normal salt
 - (2) acidic salt
 - (3) basic salt
 - (4) none of these
18. Biodegradable substance is
- (1) cloth
 - (2) thermosetting plastic
 - (3) thermoplastic
 - (4) PVC pipes
19. $2x + 2y (\ell) \longrightarrow 2xOH + H_2$
 $3z + 4y (g) \longrightarrow Z_3O_4 + 4H_2$
- | | x | y | z |
|-----|------------------|------------------|------------------|
| (1) | Zn | Ca | CO ₂ |
| (2) | H ₂ O | Ca | Fe |
| (3) | Zn | Fe | H ₂ O |
| (4) | Na | H ₂ O | Fe |
20. Ramu has a copper coin, but he wants a silver coin. As a chemist, can you help him get the silver coin by giving him the right solution from those given below.
- (1) Cu(NO₃)₂
 - (2) ZnCO₃
 - (3) Ag
 - (4) AgNO₃
21. Arrange the terms in sequence of water cycle starting from water bodies.
- (a) Precipitation
 - (b) Condensation
 - (c) Water vapour
 - (d) Infiltration
 - (e) Increase ground water table
- (1) edbca
 - (2) cbade
 - (3) cedab
 - (4) ebcad

22. Match the column and choose the correct codes given below.

Column-I		Column-II	
a.	Expansion or contraction of metals on heating or cooling	(p)	Physical change only
b.	Action of heat on calcium carbonate	(q)	Chemical change only
c.	A stone placed under sunlight	(r)	Combination of physical and chemical change
d.	Shaping of glass by heating	(s)	Neither a physical nor a chemical change

- (1) (a) - (r), (b) - (s), (c) - (p), (d) - (q) (2) (a) - (q), (b) - (q), (c) - (p), (d) - (p)
 (3) (a) - (p), (b) - (r), (c) - (s), (d) - (p) (4) (a) - (r), (b) - (p), (c) - (s), (d) - (s)

23. The aluminium containers can be used for storing concentrated HNO_3 because

- (1) HNO_3 is weak acid.
 (2) HNO_3 does not react with aluminium vessel.
 (3) aluminium becomes passive due to the formation of a protective layer of oxide.
 (4) All of these.

24. Surgical bandages are generally made of

- (1) Rayon (2) Nylon (3) Polyester (4) Silk

25. When the soil is too much acidic, plants don't grow well in it. To improve its quality what must be added to the soil ?

- (1) Nitric acid (2) Sulphuric acid (3) Caustic soda (4) Slaked lime

26. Generally on plastic containers following sign is made :



Number inside triangle represents

- (1) Any number
 (2) Number of times a plastic container is being used.
 (3) Number of times the plastic can be recycled.
 (4) Any integer

27. Which of the following can be responsible for depletion of water table?

- (A) Rise in population (B) Increase in industrialisation
 (C) Deforestation (D) Large scale construction
 (1) A, B & C only (2) C & D only
 (3) A, B & D only (4) A, B, C & D

28. Little Somu wants a ride on parachute. His father checked the ropes of parachute and confirmed it is made of nylon. We cannot use rayon here because

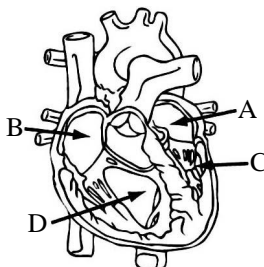
- (1) Rayon is strong (2) Rayon gets torn easily
 (3) Rayon has shiny appearance (4) Rayon is made up of protein

29. An unknown metal X when placed in copper sulphate solution gives red brown precipitate. When placed in magnesium sulphate solution, gives no reaction. Identify element X.
- (1) Sodium (2) Potassium
(3) Calcium (4) Iron
30. A slice of apple acquires a brown colour due to
- (1) Physical change (2) Chemical change
(3) Man made change (4) All of these

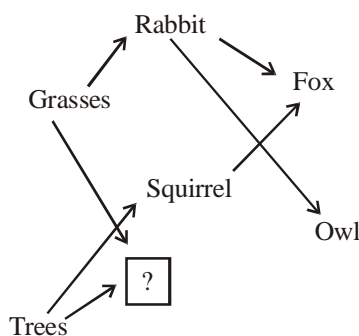
SECTION-C : BIOLOGY

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. Which of the following statements is/are false ?
- (A) When we are at rest, our heart stops pumping blood for a while.
(B) When we are sleeping, our heart beats slower than when we are awake.
(C) When we are exercising, our heart beats faster than when we are at rest.
(D) When we are exercising, our heart beats at the same rate as when we are at rest.
- (1) A only (2) A and D (3) C only (4) B and D
32. Which letters represent the ventricles in the diagram of human heart given below ?



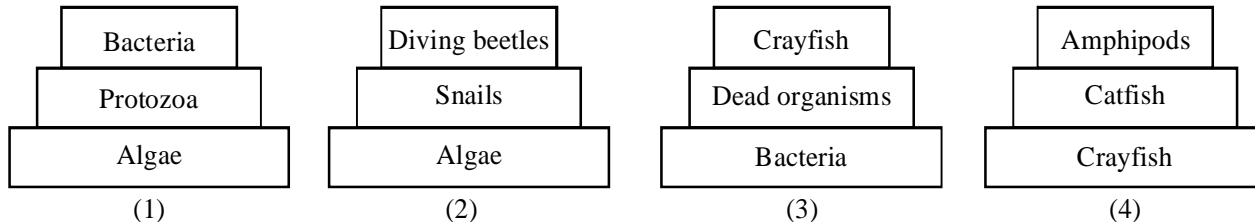
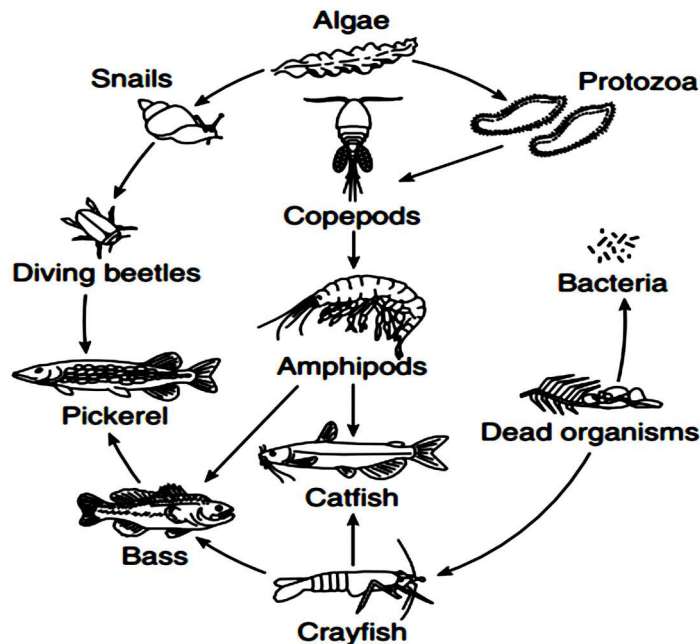
- (1) A and B (2) A and C (3) D and B (4) C and D
33. Study the food web in the diagram given below.



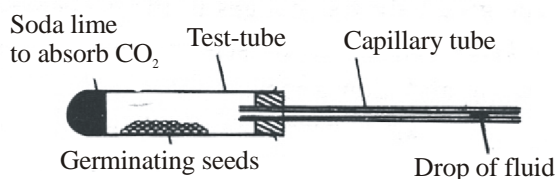
The missing organism in this food web of a forest could be a

- (1) deer (2) hawk
(3) pine tree (4) wildflower

34. Which energy pyramid most accurately shows the energy relationships between three organisms in this food web?



35. Study the given experimental set up.



What will happen to the drop of fluid in the capillary tube over the next few hours?

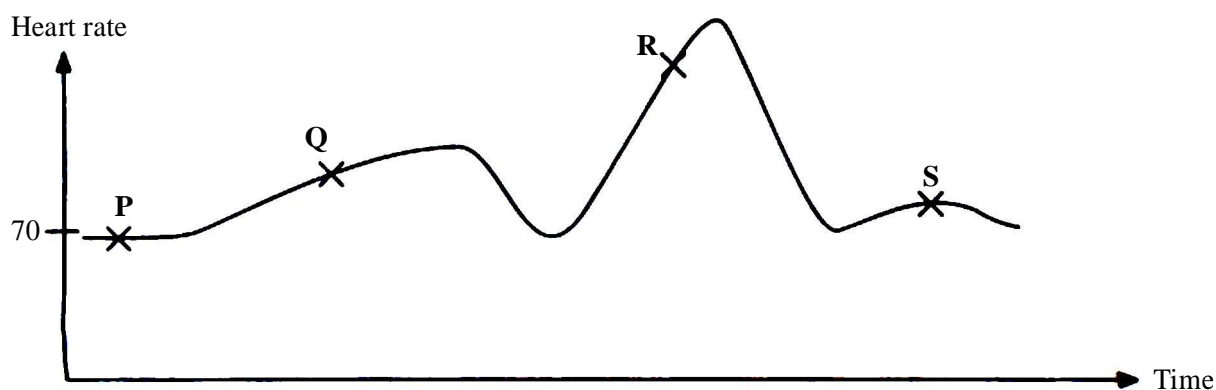
- (1) It will move away from the test tube because oxygen intake by the seeds.
 - (2) It will move away from the test tube because of carbon dioxide intake by the seeds.
 - (3) It will move towards the test tube because of oxygen intake by the seeds.
 - (4) It will not move, because carbon dioxide intake and oxygen output are equal.
36. During expiration, CO_2 moves through the pathway
- (1) Alveoli \rightarrow Bronchioles \rightarrow Bronchi \rightarrow Trachea \rightarrow Larynx \rightarrow Pharynx \rightarrow Nostrils
 - (2) Nostrils \rightarrow Pharynx \rightarrow Larynx \rightarrow Trachea \rightarrow Bronchi \rightarrow Bronchioles \rightarrow Alveoli
 - (3) Nose \rightarrow Trachea \rightarrow Lungs
 - (4) Alveoli \rightarrow Trachea \rightarrow Bronchi \rightarrow Larynx \rightarrow Nostrils

37. The method of cultivation that results in the loss of fertility is
- (1) Crop rotation (2) Excessive use of fertilizers
- (3) Shifting cultivation (4) All of these

38. Study the table below and identify 'X', 'Y' and 'Z' respectively.

Revolution	Organism	Product
1. Green revolution	X	Crops
2. White revolution	Cattles	Y
3. Silver revolution	Z	Eggs

- (1) X-Fish, Y-Egg, Z-Plants (2) X-Plants, Y-Milk, Z-Birds
- (3) X-Birds, Y-Meat, Z-Cattle (4) X-Cattle, Y-Crop, Z-Fishes
39. The heart rate of an adult is about 70 beats per minute at rest. The graph below shows Mr Leeson's heart rate over a period of time.



Which of the following shows correctly Mr Leeson's activities and his heart rate during this period of time ?

	P	Q	R	S
(1)	running	walking	sitting	sleeping
(2)	sleeping	running	walking	sitting
(3)	sleeping	walking	running	sitting
(4)	walking	running	sleeping	sitting

40. Choose the correct option for the given following blanks.
- a. Father of blue revolution is _____.
- b. Important breed of buffalo with high yield of milk is _____.
- c. The process of beating out the grains from the crop is known as _____.
- d. Crops that grow during the rainy season are _____.

	a	b	c	d
(1)	Norman borlaug	Jersey	Harvesting	Rabi crops
(2)	Dr. Arun krishnan	Murrah	Threshing	Kharif crops
(3)	Dr. V. kurien	Holstein	Threshing	Zayed crops
(4)	Norman borlaug	Sahiwal	Harvesting	Kharif crops

41. Ryan observed three different kinds of cells A, B and C. He drew up a comparison table on the three cells as shown below.

Parts of a cell	Cell A	Cell B	Cell C
cell wall	Yes	No	Yes
cell membrane	Yes	Yes	Yes
cytoplasm	Yes	Yes	Yes
chloroplast	No	No	Yes
nucleus	Yes	Yes	Yes

Which statement is correct?

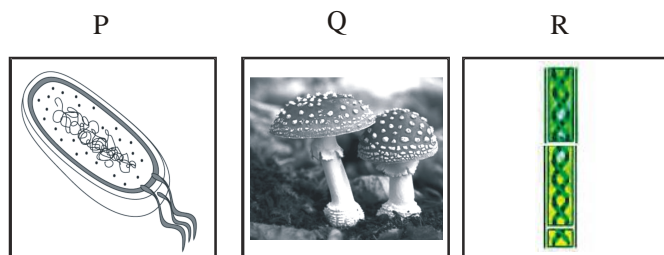
- (1) Cell C has an irregular shape but not cells A and B.
 (2) Only Cell B is able to undergo cell division.
 (3) Cell C is a smaller unit of life than cell A or cell B.
 (4) Cell B is a animal cell but cells A and C are plant cells.
42. Which of the following option in the given chart contains a right pair of cell structure and its primary function?

	Cell structure	Function
(1)	Ribosome	Protien synthesis
(2)	Vacuole	Production of genetic information
(3)	Nucleus	Carbohydrate synthesis
(4)	Mitochondria	Lipid synthesis

43. Which of the following best describes the figure given below ?



- (1) It is made up of many genes that code for traits.
 (2) It is made up of many cells that work together to survive.
 (3) It is made up of many amino acids, forming a long protein.
 (4) It stores the energy that a cell uses to carry out life processes.
44. Look at the diagram given below and identify P, Q and R.



- (1) P-Bacteria, Q-Mushroom, R-Spirogyra
 (2) P-Mushroom, Q-Bacteria, R-Spirogyra
 (3) P-Spirogyra, Q-Bacteria, R-Mushroom
 (4) P-Mushroom, Q-Spirogyra, R-Bacteria

45. Viruses are made up of

- (1) Proteins + lipids (2) Proteins + Nucleic acid
(3) Proteins + Sugars (4) Lipids only

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. Value of $124 \times 4 - 3 + 118 \div 2$ is ____

- (1) 552 (2) 496 (3) 553 (4) -553

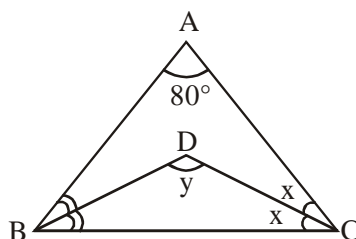
47. Which of the following is/are recurring decimals?

- (1) $\frac{1}{3}$ (2) $\frac{2}{7}$ (3) $\frac{1}{5}$ (4) Both (1) & (2)

48. In $\triangle ABC$, $AB = AC$ and AD is perpendicular to BC . State the property by which $\triangle ADB \cong \triangle ADC$.

- (1) SAS property (2) AAS property (3) RHS property (4) Both (2) and (3)

49. In the given figure, $\angle A = 80^\circ$, $\angle ABC = 60^\circ$, $\angle C = 2x$ and $\angle BDC = y$. BD and CD bisect $\angle B$ and $\angle C$ respectively.



The values of x and y respectively are

- (1) 15° and 70° (2) 10° and 160°
(3) 20° and 130° (4) 20° and 125°

50. A square is inscribed in a circle in such a way that all its vertices are touching the circle. If perimeter of square is 24 cm, find area of the circle (in sq. cm).

- (1) 9π (2) 15π
(3) 18π (4) 21π

51. If a solid figure has 15 edges and 10 vertices, then the number of faces of a solid figure is

- (1) 9 (2) 7 (3) 11 (4) 5

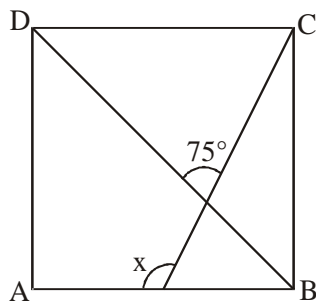
52. If $\frac{37}{13} = 2 + \frac{1}{x + \frac{1}{y + \frac{1}{z}}}$, where x, y, z are natural numbers, then find value of $x + y + z$.

- (1) 6 (2) 7 (3) 8 (4) 9

53. If seven times a number is added to one-fifth of itself, then five-sixth of the sum is equal to 30. Find the number.

- (1) 5 (2) 6 (3) 15 (4) 10

54. In adjoining figure, ABCD is a square, then x is equal to ____.



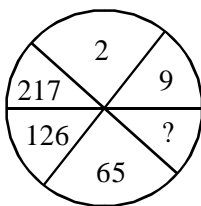
- (1) 100° (2) 120° (3) 75° (4) 180°
55. The least number of six digits which is a perfect square
(1) 100489 (2) 100289 (3) 998256 (4) None of these
56. The number $3^9 + 3^{12} + 3^{15} + 3^n$ is a perfect cube of an integer for natural number n, then n is
(1) 12 (2) 13 (3) 14 (4) 15
57. The value of $\left[\frac{25^{1/2} + 2}{25^{-1/2}} \right]$ is
(1) 5 (2) 7 (3) 35 (4) None of these
58. A bus is carrying 45 passengers, some with 50-paisa tickets and the remaining with 1- rupee tickets. If the total fare received from all these 45 passengers is Rs 32.50, find the number of passengers with 50-paisa tickets.
(1) 20 (2) 25 (3) 35 (4) 30
59. A garden is 56 m by 35 m. A strip of 2 m width is dug all around it on the outer side. Find the cost of digging at the rate of Rs. 4.20 per m^2 .
(1) Rs. 1596 (2) Rs. 2000 (3) Rs. 1296 (4) Rs. 1600
60. Which of the following is the biggest rational number out of $\frac{2}{13}$, $\frac{1}{17}$, $\frac{4}{19}$ and $\frac{5}{23}$?
(1) $\frac{2}{13}$ (2) $\frac{1}{17}$ (3) $\frac{4}{19}$ (4) $\frac{5}{23}$

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.

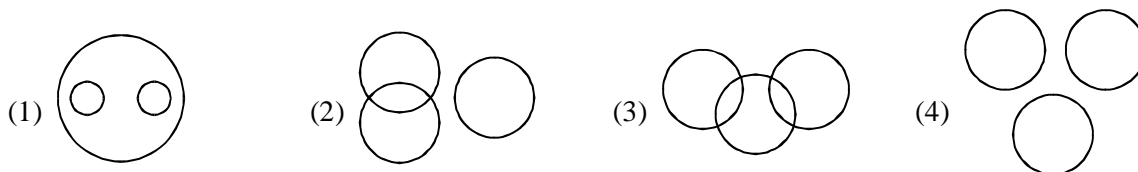
61. If '134' means 'you are well',
'758' means 'they go home',
'839' means 'we are home',
then which of the following represents 'home' in that code language ?
(1) 5 (2) 7 (3) 3 (4) 8
62. Find the missing term in the following series.
1, 4, 27, 16, ?, 36, 343
(1) 25 (2) 87
(3) 120 (4) 125

63. Find the missing character in the following figure.



- (1) 26 (2) 27 (3) 28 (4) 63
64. Find out which of the alternative (1), (2), (3) or (4) indicates the correct relationship between the three given words.

Doctor, Nurse, Human being



65. A cube is cut in two equal parts along a plane parallel to one of its faces. One piece is then coloured red on the two larger faces and green on the remaining, while the other is coloured green on two smaller adjacent faces and red on the remaining. Each is then cut into 32 cubes of same size and mixed up. How many cubes have three coloured face ?

- (1) 32 (2) 8 (3) 16 (4) 0
66. A and B are standing in a row of persons. A is 18th from left side of the row and B is 24th from right side of the row. If they interchange their positions A becomes 31st from left. Find new position of B from right side :

- (1) 37th (2) 36th (3) 35th (4) 38th
67. Pointing to a boy, Ramesh said, "His only brother's mother is my father's wife." How is Ramesh related to that boy ?

- (1) Uncle (2) Father
(3) Nephew (4) Brother
68. If \div means $+$, $-$ means \div , \times means $-$ and $+$ means \times , then

$$\{(36 \times 4) - 8 \times 4\} \div \{4 + 8 \times 2 + 16 \div 1\} = ?$$

- (1) 1 (2) 8 (3) 12 (4) 16
69. One morning, two persons A and B were talking to each other face to face, standing in a straight line on a ground. If A's shadow direction is to the left of B. In which direction B is facing ?
- (1) North (2) South (3) East (4) West
70. If FRIEND is coded as HUMJTK, how is CANDLE written in that code ?

- (1) FYBOC (2) EDRIRL
(3) DCQHQB (4) DEQJQM
71. Siva Reddy walked 2 km West of his house and then turned South covering 4 km. Finally, he moved 3 km towards East and then again 1 km West. How far is he from his initial position ?
- (1) 10 km (2) 9 km (3) 2 km (4) 4 km

76. What will be the Mirror Image of the following combination of letters.

victory

(1) yrctov

(2) yrctov

(3) yrctov

(4) yrctov

77. In the following question, one term is wrong. Find out the wrong term.

5, 17, 37, 65, 101, 155, 197

(1) 17

(2) 65

(3) 101

(4) 155

78. Choose the alternative which closely resembles the Water Image of the given combination.

GR98AP76ES

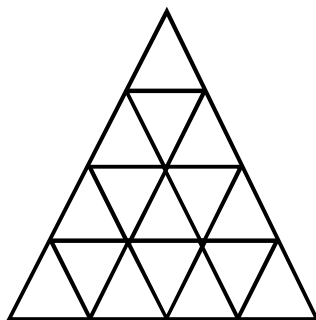
(1) 2E97PAB68G

(2) 2E97PAB68G

(3) 2E97PAB68G

(4) 2E97PAB68G

79. Count the number of parallelogram in the given figure.



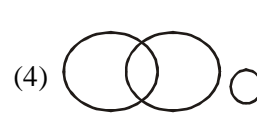
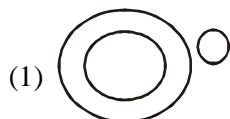
(1) 47

(2) 45

(3) 41

(4) 39

80. Which of the following diagrams correctly represents Human beings , Teachers and Painters ?



SPACE FOR ROUGH WORK

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Orientation Session



Classroom Session



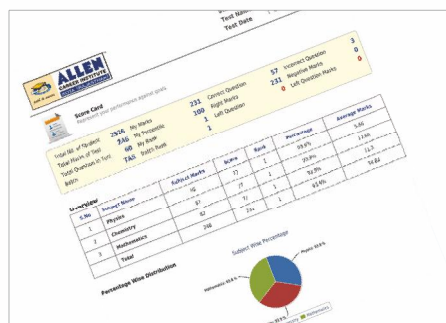
Prarthana



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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

IJSO-2015



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)

NSO
National
Science
Olympiad

Conducted by
Science Olympiad
Foundation, New Delhi



STSE 2015

36 Selections for
Scholar Certificate
155 Selections for
Distinction Certificate

STSE
State Talent
Search
Examination

Conducted by
Rajasthan Board
of Secondary Education



NSTSE

232 Selections in
NSTSE (Level-1)
63 Selections in
NSTSE (Level-2)
NISHANT ABHANGI:
AIR-1 (Level-2)

NSTSE
National
Science Talent
Search
Examination

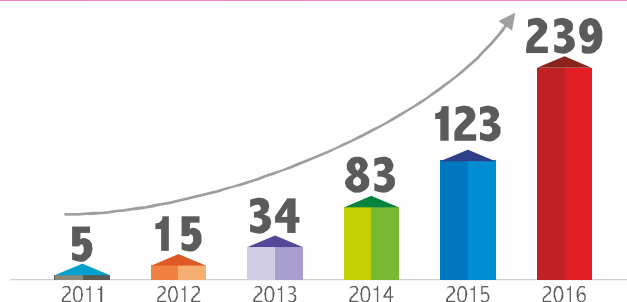
Conducted by
Unified Council, Hyderabad



NTSE

239 Students
Selected
From **ALLEN**

NTSE 2016 (STAGE-2)



APTITUDE IN MATHEMATICS

NMTC

274 Selections in
NMTC (Prelim)
17 Selections in
NMTC (Final)

NMTC
National
Mathematics
Talent
Contest

Conducted by
Association of Mathematics
Teachers of India, Chennai



IMO (SOF)

370 Selections in
IMO (Level-1)

IMO
International
Mathematics
Olympiad

Conducted by
Science Olympiad
Foundation, New Delhi



UCO

140 Selections in
UCO (Level - 1)
59 Selections in
UCO (Level - 2)

UCO
Unified
Cyber
Olympiad

Conducted by
Unified Council, Hyderabad



SCIENTIFIC APTITUDE

BALSHREE HONOUR

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

Consist of
Plaque,
Citation,
₹15000 &
Literature set

Conducted by **National Bal Bhavan**

LANGUAGE PROFICIENCY

TRINITY GESE

38 Selections in
TRINITY GESE
Distinction : 21
Merit : 17

GESE
Grade
Examination
for
Spoken
English

Conducted by
Trinity College, London



WORKSHOP/CONFERENCES

NMC

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

NMC
National
Maths
Conference

Conducted by
Association of Mathematics
Teachers of India, Chennai



APTITUDE IN INTELLIGENCE QUATIENT (IQ)

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Selected for Techniche

29 Selections for Silver Certificate
in Technothlon Prelims

Conducted by IIT Guwahati
Technothlon
the international school championship
...Inspiring Young minds!

TECHNICHE 2015

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

Conducted by IIT Guwahati
Techniche
Indian Institute of Technology Guwahati

TECHKRITI

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Selected in Techkriti

Conducted by IIT Kanpur
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Answer Key



Class- 8th (VIII)

Held on : 23 October 2016

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

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

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

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