A Specially Designed Initiative to Encourage Young Talent by



TALLENTEX 2017 : (09, October 2016)

PAPER CODE



CLASS - 8th (VIII)

Duration: 2 Hrs. | Maximum Marks: 320

Tallentex Roll No. 5 **Answer Sheet No.**

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

- This Booklet is your Question Paper. DO NOT break seal of Booklet until the invigilator instructs to do so.
- Fill your TALLENTEX Roll No. & Answer Sheet No. in the space provided on the cover page. 2.
- Carefully fill your **PAPER CODE** and present **CLASS** in space provided **(Serial No. 6 & 12)** of optical response sheet. 3.
- 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 peryour 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

Bhavesh Dhingra Classroom



Kunal Goyal



Classroom



AIR:9

Gaurav Didwania Classroom



Rohan Garg Classroom



Animesh Bohra Distance



Ritesh Goenka Classroom

AIR: 27



Vikrant Garg Classroom



Sharvik Mittal Classroom



Ishan Tarunesh Distance



Naman Jain Classroom



Sushil Khyalia Classroom

Total Selections

Classroom: 2857 | Distance: 1026

ALLEN RESULT: NEET (UG)-2016

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



Ekansh Goyal



Classroom



AIR: 12

Prakhar Bansal

Classroom



Classroom

Lajjaben Patel

Classroom



AIR: 13



Ashank Khaitan Distance

AIR: 15

Gurasis Singh

Distance



AIR: 18

Swetank Anand

Classroom

Dyuti Shah Distance



Distance







Mahak Kr. Surana Classroom



Prachi Singh Classroom

Total Qualified

Classroom : 26198 | Distance : 6908

Authenticity of Result: Power of ALLEN

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



Distance **AIR: 17**



Aishvary Gupta Classroom



Kushagra Pandey Distance



Classroom





Ira Pachori



Ritik M Goyal



Amol Sood



Ashank Khaitan Dhruvil D. Shah









Sanil Garg Distance



Aditya Agarwal Distance



Vishal Saini Distance



Gurasis Singh Distance



Manavi Gupta Classroom



Anubhav Das



Prachi Singh Classroom

AIR: 32

Japnoor Kaur Distance



Ayush Jain Classroom



Sukriti Chaudhri Distance

Total Qualified

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-105

Megh V. Thakkar Shashwat Agrawal



AIR -130

Distance



Amey Ravindra Patil Akash Bhardwaj Rahul Agrawal Classroom



Classroom





Sharvik Mital Shashwat Shivam Ankit Dhankhar





AIR-168



Sukriti Gupta Georgi Joseph Boby Distance



Rushikesh Vitthal Distance



Koustav Yacha Classroom



Rohan Garg

Classroom

Rahul M. Chanduka Classroom

Students secured JEE Main

AIR-185

Gavali H. Abhiman Distance



Atri Dutta



Vansh J. Chiripal Classroom

All India Ranks from all Courses of ALLEN

TALLENTEX Success Power Session & Rewards Ceremony (29 November 2015)

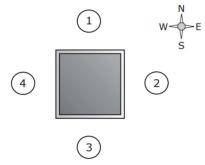




SECTION - A: PHYSICS

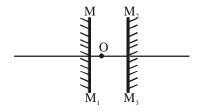
This section contains **15 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

1. Four students stand facing a box. The diagram below shows an overhead view of the box. The numbered circles represent the positions of the students.



What do the students need to do to slide the box to the northeast?

- (1) Students 1 and 2 push, and Students 3 and 4 pull
- (2) Students 1 and 4 push, and Students 2 and 3 pull
- (3) Students 2 and 3 push, and Students 1 and 4 pull
- (4) Students 3 and 4 push, and Students 1 and 2 pull
- 2. How many images will be formed in the figure shown, when the object is kept at O?



- (1) Zero
- (2) Infinite
- (3) Three
- (4) Ten
- 3. The picture below shows the four major forces acting on an airplane in flight.

Airplane in Flight Lift Thrus

What causes the force indicated by the X?

(1) gravity

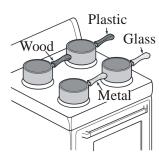
(2) air friction

(3) magnetic force

- (4) force exerted by the engine
- **4.** A person is standing between two parallel plane mirrors kept 3 m apart. What will be the distance between 1st images formed in the mirrors?
 - (1) 1.5 m
 - (2) 3 m
 - (3) 6 m
 - (4) cannot be answerd as position of person is required

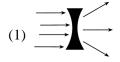


- 5. At what temperature a Fahrenheit thermometer be double than that of Centigrade thermometer ?
 - (1) 160 °C
- (2) -40 °C
- (3) 40 °C
- (4) −160 °C
- **6.** Four pots of water are put on a stove. Each pot is heated with the same heat setting.

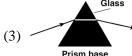


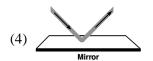
Which handle will most likely be the hottest after five minutes?

- (1) Wood
- (2) Plastic
- (3) Metal
- 4) Glass
- 7. A pendulum oscillate 40 times in 4 sec. Find its frequency.
 - (1) 40 Hz
- (2) 10 Hz
- (3) 4 Hz
- (4) 1 Hz
- **8.** Which observation demonstrates that light waves travel much faster than sound waves?
 - (1) An exploding firework is seen before it is heard
 - (2) Light from the Sun takes eight minutes to reach Earth.
 - (3) Thunder can be heard before lightning is seen.
 - (4) A returning echo is heard after a splitsecond delay.
- **9.** Which diagram best shows the reflection of light?

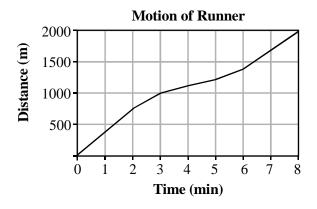








10. The graph below represents the motion of a runner during a 2000-meter race.

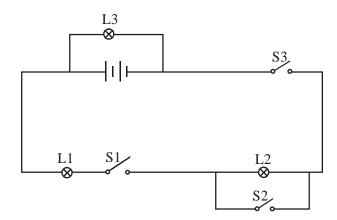


During which of the following time periods is the runner's speed is constant?

- (1) 0-8 min
- (2) 2-8 min
- (3) 4-8 min
- (4) 6-8 min



11. Circuit below is set up using three bulbs, L1, L2 and L3, and three switches, S1, S2 and S3.



A tick ' \checkmark ' is marked if the bulb lights up and a cross ' \times ' is marked if the bulb does not light up in the boxes accordingly.

Observation	S1	S2	S3	L1	L2	L3
A	open	closed	closed	×	×	✓
В	closed	open	closed	✓	✓	✓
С	closed	closed	open	×	×	✓

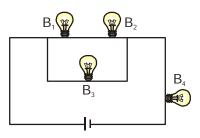
Which observation in the above table is correct?

(1) A and B

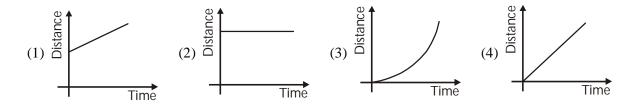
(2) B and C

(3) A and C

- (4) All A, B and C
- 12. In the circuit shown if bulb B₁ fuses then which bulb will not glow?

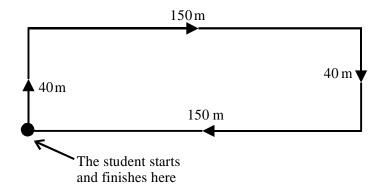


- (1) B_2
- (2) B_{3}
- (3) B_4
- (4) None of these
- 13. Which of the following distance-time graph shows a truck moving with speed, which is not constant?





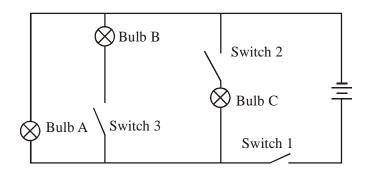
14. A student follows the route shown in the diagram and arrives back at the starting point.



Which row in the table shows the total distance walked and the magnitude of the final displacement?

	Total distance	Final
	(m)	displacement (m)
(1)	0	80
(2)	0	380
(3)	190	0
(4)	380	0

15. The diagram below shows an electric circuit.



In which order must you close the switches so that bulb A lights up first, followed by bulb B and then bulb C?

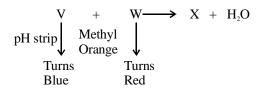
	First	Second	Third
(1)	Switch 1	Switch 2	Switch 3
(2)	Switch 3	Switch 2	Switch 1
(3)	Switch 2	Switch 3	Switch 1
(4)	Switch 1	Switch 3	Switch 2



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. In the given reaction.



V, W, X are respectively.

$(1) CaCO_3$	HC1	CaCl ₂
$(2) Mg(OH)_2$	NaOH	Na_2O
$(3) Ca(OH)_2$	HCl	CaCl ₂
(4) MgCO ₂	HC1	MgCl

- 17. Arrange the pairs in sequence in decreasing order of basicity of an acid and acidity of a base followed by salts formed by the given acid base pairs in the same order respectively.
 - (a) Acetic acid, ammonium hydroxide
- (b) Oxalic acid, barium hydroxide
- (c) Phosphoric acid, aluminium hydroxide
- (d) Barium oxalate

(e) Ammonium acetate

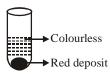
(f) Aluminium phosphate

(1) adcfeb

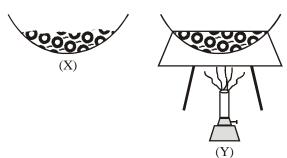
- (3) adcebf
- (4) cdaebf
- 18. I am easy to wash, absorbs very little water and have a very lustrous, appearance. I am used to make bristles of tooth brushes, combs etc. Since I am so versatile you must know me. Who am I?
 - (1) Rayon
- (2) Dacron

(2) cbafde

- (3) Terylene
- (4) Nylon
- **19.** When few granules of sample X are added to a solution of copper sulphate, the changes observed are shown in the figure. Identify sample X and red deposit respectively.



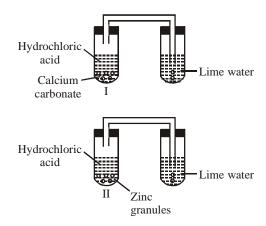
- (1) Fe, Zn
- (2) Fe, Cu
- (3) Cu, Zn
- (4) Zn, Cu
- **20.** Ramesh mixed some iron fillings with sulphur powder in a china dish. In another dish he mixed iron fillings and sulphur powder and heated the mixture. Which of his observations is 'NOT' correct?



- (1) Dish X shows a physical change while dish Y shows a chemical change.
- (2) In dish X sulphur powder and iron fillings can be seen separately.
- (3) In dish Y a new substance is formed on heating the mixture.
- (4) The change which has taken place in dish Y is reversible.



- 21. Which the following water does not contain dissolved gases such as oxygen and carbon dioxide?
 - (1) Potable water
- (2) Distilled water
- (3) Saline water
- (4) Soft water
- 22. Kanav took two test tubes marked as I and II. In test tube I, he put calcium carbonate and hydrochloric acid while in test tube II, he put zinc granules and hydrochloric acid. He passed the gas coming out from both the test tubes in lime water. What are his observations?



- (1) The gas coming out from test tube I turns lime water milky.
- (2) The gas coming out from test tube II turns lime water milky.
- (3) The gas coming out from both the test tubes turns lime water milky.
- (4) None of these
- 23. A few elements in the order of decreasing reactivity are: K > Ca > Mg > Fe > Sn > H > Au. Identify the incorrect statement.
 - (1) Au is the weakest reducing agent.
 - (2) Tin from tin oxide can be displaced by Fe.
 - (3) Ca displaces hydrogen from water more easily than Fe.
 - (4) K is the strongest oxidising agent.
- **24.** Riya described a fabric as following.
 - It absorbs water quickly.
 - It is soft to touch.
 - It creases easily.
 - It can be washed and ironed easily.
 - It is obtained from plant sources.

Which of the following fibre can form such fabric?

- (1) Cotton
- (2) Silk
- (3) Wool
- (4) Nylon
- **25.** Ammonia is found in many household products, such as window cleaners. It turns red litmus blue, what is its nature ?
 - (1) Basic
- (2) Acidic
- (3) Neutral
- (4) None of these
- **26.** The hard plastic covers of telephones are made of polymers
 - (1) styrene
- (2) acrylonitrile
- (3) ethene
- (4) none of these

- **27.** What is infiltration?
 - (1) Precipitation of water

- (2) Process of filtering of water
- (3) Seeping of water into the ground
- (4) Evaporation of water



- 28. We use PET bottles. PET jars are used for storing sugar, dal, salt etc. What is this PET exactly?
 - (1) Familiar form of phenol

(2) Familiar form of polyester

(3) Familiar form of resin

- (4) Familiar form of polygon
- **29.** An element X does not react with dilute sulphuric acid. If it forms an oxide XO, which turns moist red litmus into blue, what would we call X?
 - (1) A metal
- (2) A non-metal
- (3) An acid
- (4) Noble gases
- **30.** Which of the following methods cannot be used to prevent rusting?
 - (1) Painting
- (2) Alloying
- (3) Galvanisation
- (4) Crystallisation

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. 'X' is a blood vessel that carries blood rich in carbon dioxide. 'Y' is a blood vessel that carries digested food and water. 'Z' is a blood vessel with very thin walls so that oxygen can pass through easily. What can 'X', 'Y' and 'Z' be?

'X' 'Y' 'Z'

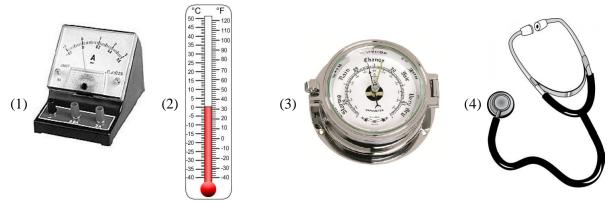
(1) Artery Vein Capillary

(2) Vein Capillary Artery

(3) Vein Artery Capillary

(4) Heart Lung System

32. Which of the following device used by a doctor to check the heart beat?



33. The diagram below represents a food chain made up of organisms found in a field.

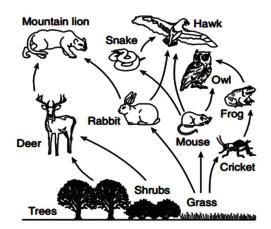


Which of the following row in the chart correctly identifies characteristics that can be associated with the members of this food chain?

	Producer	Consumer	Autotroph	Heterotroph
(1)	corn	snake	mouse	owl
(2)	mouse	owl	snake	mouse
(3)	corn	owl	corn	snake
(4)	owl	corn	snake	corn

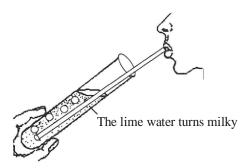


34. A food web is represented below.



A continuous decrease in the number of the rabbit population would most likely cause a decrease in which other population?

- (1) Frog
- (2) Mountain lion
- (3) Grass
- (4) Cricket
- 35. The given figure illustrated the effect of exhaled air on lime water.



Lime water turns milky due to the presence of _____ in exhaled air.

(1) carbon monoxide

(2) carbon dioxide

(3) nitrogen

- (4) oxygen
- **36.** Process A and B occur in green plants. The symbol '✓' means it takes place while '✗' means it does not take place.

Process	Daytime	Nighttime
A	✓	×
В	✓	✓

What processes do A and B represent?

	\mathbf{A}	В
(1)	Breathing	Respiration
(2)	Respiration	Photosynthesis
(3)	Photosynthesis	Respiration
(4)	Transpiration	Photosynthesis

37. The words given below in the box belong to which of the following practices?

Plough,	Hoe,	Cultivator
	(2)	Sowing

(1) Soil preparation

(3) Irrigation

(4) Threshing

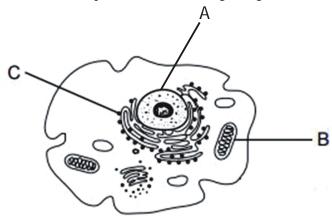
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38. Match the column I with column II and choose the correct option.

Column I			Column II
a	Rinderpest	i	Fowl birds
b	Typhoid	ii	Fresh water fish
с	Rust of wheat	iii	Cattle
d	Mrigal	iv	Fungi

- (1) a-iii, b-i, c-iv, d-ii (2) a-ii, b-i, c-iv, d-iii (3) a-iii, b-ii, c-iv, d-i (4) a-ii, b-iii, c-iv, d-i
- **39.** Wrap the leaves of a potted plant with polythene bag. Remove the bag after four days. What will you observe ?
 - (1) Polythene bag becomes green in colour.
 - (2) All the leaves inside polythene bag are shed.
 - (3) Polythene bag has droplets of water on its inner surface.
 - (4) All of these
- **40.** Which one is showing modern method of irrigation?
 - (1) Dhekli
- (2) Rahat
- (3) Moat
- (4) Sprinkler system
- 41. Structures in an animal cell are represented in the diagram given below.



Which row in the chart correctly identifies the functions of structures A, B, and C?

	Structure A	Structure B	Structure C
(1)	controls the activities of cell		protein synthesis
(2)	information storage	transport of materials	storage of liquids
(3)	protein synthesis	storage of waste	reproduction
(4)	cell communication	transport of materials	waste removal

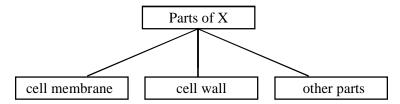
42. Match the Column-I with Column-II and select the correct option from the codes given below.

Column-I			Column-II
a	Suicidal bag of the cell	(i)	Mitochondria
b	Power house of the cell	(ii)	Ribosome
С	Protein factory of the cell	(iii)	Lysosome
d	Kitchen of the cell	(iv)	Endoplasmic reticulum
е	Circulatory system of the cell	(v)	Chloroplast

- (1) a-(iii), b-(i), c-(ii), d-(iv), e-(v)
- (2) a-(iii), b-(i), c-(iv), d-(v), e-(ii)
- (3) a-(iii), b-(i), c-(ii), d-(v), e-(iv)
- (4) a-(i), b-(iii), c-(ii), d-(v), e-(iv)



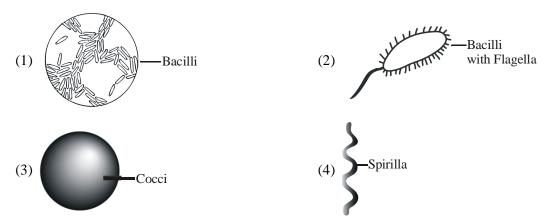
43. The classification diagram below shows the different parts of a typical cell, X. Some parts of the cell are not shown in the diagram.



Which is/are the most likely parts of cell X not shown in the classification diagram above?

- A. Mitochondria
- B. Nucleus
- C. Chloroplasts
- (1) A

- (2) A & B
- (3) B & C
- (4) A, B & C
- 44. Bacteria are often classified according to their shape. Which type of bacteria cause tuberculosis?



45. Some diseases and their causing factor are given below. Choose the incorrect option.

	DISEASE	CAUSING FACTOR
(1)	Sleeping sickness	Mycobacterium tuberculosis
(2)	Plague	Yersinia pestis
(3)	Elephantiasis	Filarial worm
(4)	Typhoid	Salmonella typhi

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.

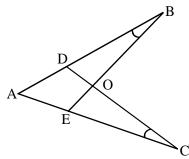
- 46. Evaluate:
- (3) 4

- (4) -4
- 47. Each of the letters A,B,C,D represents different odd integers between 2 and 10. What is the least value of $\frac{A+B-C}{D}$?

(4) None of these

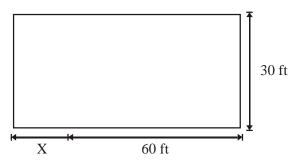


48. In figure, AB = AC, $\angle B = \angle C$, AB = 8 cm, BE = 6 cm and AE = 3 cm, then find perimeter of $\triangle ADC$.



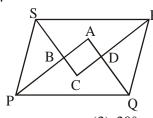
- (1) 14 cm
- (2) 15 cm
- (3) 17 cm
- (4) 19 cm

- **49.** In a ABC, if $2\angle A = 3\angle B = 6\angle C$, then $\angle B = _$
 - 30° (2) 90°
- (3) 60°
- (4) 45°
- **50.** When Keisha installed a fence along the 200 feet perimeter of her rectangular back yard, she left an opening for a gate. In the diagram below, she used 'X' to represent the length (in feet) of the gate.



What is the value of X?

- (1) 10
- (2) 20
- (3) 25
- (4) 30
- 51. If we rotate a right angled triangle of height 10 cm and base 6 cm about its base we get
 - (1) cone of height 6 cm and base diameter 10 cm.
 - (2) cone of height 10 cm and base diameter 6 cm.
 - (3) cone of height 10 cm and base diameter 12 cm.
 - (4) cone of height 6 cm and base diameter 20 cm.
- **52.** Between 2 positive rational numbers separated by 1 unit, there is a rational number in their midway/halfway, such that sum of all 3 rational numbers is $\frac{15}{4}$. What can be said about the three numbers?
 - (1) All 3 numbers are less than 1.
- (2) All 3 numbers are greater than 1.
- (3) All 3 numbers are between 0 and 3.
- (4) None of these
- **53.** In a parking lot there are some cars and some bikes. If there are total 70 vehicles and 200 wheels altogether, find number of bikes.
 - (1) 30
- (2) 40
- (3) 45
- (4) 50
- **54.** In the following figure the bisector of interior angles of the parallelogram PQRS enclose a quadrilateral ABCD. Find \angle ADC.



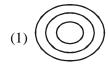
- $(1) 45^{\circ}$
- $(2) 90^{\circ}$
- $(3) 30^{\circ}$
- $(4) 60^{\circ}$



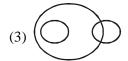
33.	ii squares of tw	o consecutive positive in	negers differ by 1987.	then sum of these integers	18	
	(1) 1970	(2) 1981	(3) 1987	(4) 1990		
56.	The square of a	natural number subtract	ed from its cube is 48.	The number is		
	(1) 6	(2) 5	(3) 4	(4) 8		
57.	Find the value of	of x, if $5^{12} \div \sqrt{625} = 5^{3x}$	+1.			
	(1) 3	(2) 4	(3) $\frac{10}{3}$	(4) 5		
58.	Also the smalle		s than the smallest eve	ive even numbers together n number. What is the sur		
	(1) 74	(2) 81	(3) 83	(4) 87		
59.	Perimeter of a rl its other diagona		length of one of its dia	gonals is 24 cm. Find the l	ength of	
	(1) 6	(2) 8	(3) 10	(4) 12		
60.	If the product of	f two irrational numbers	is rational, then which	of the following can be con	ncluded?	
	(1) The ratio of the greater and the smaller numbers is an integer.					
	(2) The sum of	(2) The sum of the numbers must be rational.				
	(3) The excess of the greater irrational number over the smaller irrational number must be rational					
	(4) None of the	above				
		SECTION-E	: MENTAL ABIL	ITY		
This	section contains 2	20 Multiple Choice Que	estions. Each question h	as four choices (1), (2), (3)	and (4)	
out o	of which ONLY O	ONE is correct.				
61.	If CONTRIBUT	E is written as ETBUIRN	NTOC, which letter will	be in the sixth place when	counted	
	from the left if	POPULARISE is written	in that code ?			
	(1) L	(2) A	(3) I	(4) R		
62.	Some of the lett	ters are missing which a	re given in that order as	some of the alternatives b	elow it	
	Choose the corr	ect alternative.				
	b - ac - cc - ct	o - ab - ac				
	(1) cabab	(2) bbaac	(3) abbbc	(4) aabba		
63.	Find the missing	g character:				
	13 11 52	9 (10) 27	8 ? 72			
	6	12	11			
	(1) 13	(2) 5	(3) 8	(4) 14		

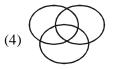


64.	Which of the following Venn diagram correctly represents the relation among Rhombus,
	Quadrilateral and Polygons ?









- **65.** A cube is painted blue on all faces. It is cut into 125 smaller cubes of equal size. How many cubes are painted on one face only ?
 - (1) 8

- (2) 16
- (3) 36
- (4) 54
- **66.** A and B are standing in a row. A is 20th from left side of the row and B is 22nd from right side of the row. If they interchange their positions A becomes 33rd from left. Find total number of persons?
 - (1) 54
- (2) 44
- (3) 55
- (4) 53
- **67.** Pointing to a lady, a man said, 'She is the only daughter of my mother's husband's only son'. How is the lady related to the man?
 - (1) Sister
- (2) Aunt
- (3) Daughter
- (4) Niece
- **68.** Given interchanges: Signs '-' and '÷'; numbers '4' and '8'.
 - (1) $6 8 \div 4 = -1.0$

(2) $8 - 6 \div 4 = 1.0$

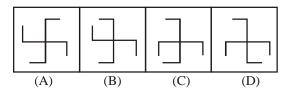
 $(3) \ 4 \div 8 - 2 = 6.0$

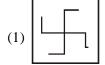
- $(4) 4 8 \div 6 = 2.0$
- **69.** At the evening time Rekha is walking on the play ground, if her shadow is towards her right then what is the facing direction of Rekha?
 - (1) North

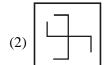
(2) South

(3) East

- (4) West
- **70.** If MASTER is coded as $\overline{4}1\dot{1}\dot{2}5\overline{9}$, then POWDER will be coded as :
 - $(1) \ \overline{765439}$
- $(2) \ \overline{765439}$
- (3) 765459
- $(4) \ 765549$
- **71.** A man walks 6 km to the East and then turn to the South and walk 2 km. Again he turns to the East and walks 2 km. Next he turns Northwards and walks 8 km. How far is he now from his starting point ?
 - (1) 18 km
- (2) 10 km
- (3) 16 km
- (4) 12 km
- 72. Find the next figure from the given alternatives to complete the given sequence.













- 73. 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 only one coloured face each?
 - (1) 32
- (2) 8

- (3) 16
- (4) 0

- 74. (i) A + B means 'A is the father of B'
 - (ii) A B means 'A is the wife of B'
 - (iii) A × B means 'A is the brother of B'
 - (iv) A ÷ B means 'A is the daughter of B'

If A - C + B, which of the following statements is true?

- (1) A is the mother of B
- (2) B is the daughter of A
- (3) A is the aunt of B
- (4) A is the sister of B
- 75. Find out the alternative figure which contains figure (X) as its part :



(X)



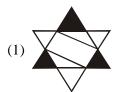


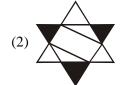


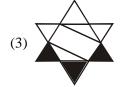


76. Find the Mirror Image of the given figure.









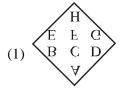


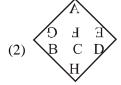


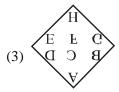
- 77. Find the next term in given series:
 - 11, 13, 17, 25, 32, ?, 47
 - (1) 35
- (2) 40
- (3) 37
- (4) 39

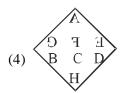
78. Find the Water Image of the given figure.



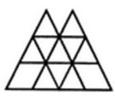




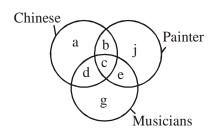




79. Count the number of parallelogram in the given figure :



- (1) 23
- (2) 22
- (3) 21
- (4) 18
- **80.** There are three intersecting circles each representing certain section of people. Different regions are marked. Choose the letter of the region which represents Chinese who are painters but not musicians.



(1) b

(2) c

(3) d

(4) g



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



ALLEN Students Bring Glory to Nation through their International Achievements-2016

International Chemistry Olympiad



48th International Chemistry Olympiad IChO-2016 TBILISI, GEORGIA



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



Silver Medal VIDUSHI VARSHNEY (Classroom)

International Earth Science Olympiad



10th International **Earth Science Olympiad** (IESO) 2016 JAPAN



Silver Medal AMARJIIT VIKAS PANDE

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

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 IB0

IChO

STAGE 1

1 Selection in NSEC

DHYEY SANKALP GANDHI

is the youngest in the country so far to qualify stage-1 of ICh0

International Chemistry **Olympiad**



IOAA

STAGE 2 selected in

RAYYAN SHAHID 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)

ANGI: Science
Olympiad

Conducted by Science Olympiad Foundation, New Delhi



NSO

National

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)

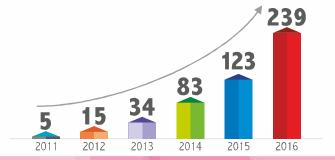
NISHANT ABHANGI: AIR-1 (Level-2) NSTSE
National
Science Talent
Search
Examination

Conducted by Unified Council, Hyderabad Test-Assess Achieve

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)

International Mathematics Olympiad

Conducted by Science Olympiad Foundation, New Delhi



APTITUDE IN INFORMATION TECHNOLOGY

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

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)

TECHNOTHLON PRELIMS 2015

20 Students (10 Teams) Selected for Techniche

29 Selections for Silver Certificate in Technothlon Prelims

Conducted by IIT Guwahati
Techn

thlon

TECHNICHE 2015

2 Students (1 Team) KHUSHI TIBAREWAL STUTI SHAH

won Junior Squad in Techniche

Conducted by IIT Guwahati

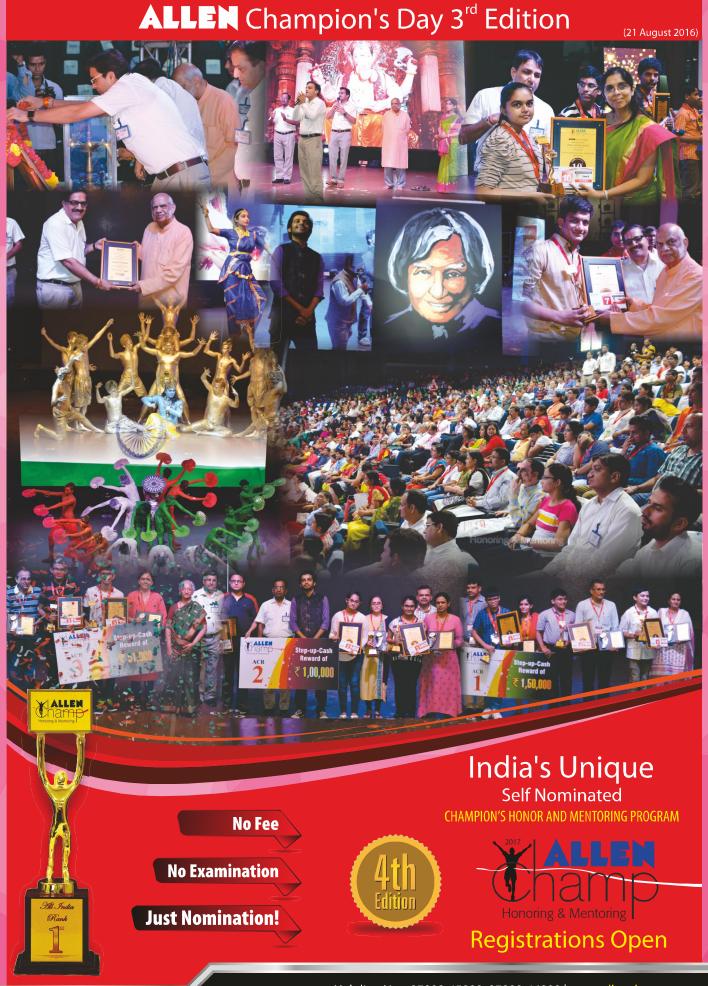


TECHKRITI

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

Conducted by IIT Kanpur





Answer Key



Class-8th (VIII)

Held on: 09 October 2016

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

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

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

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

