

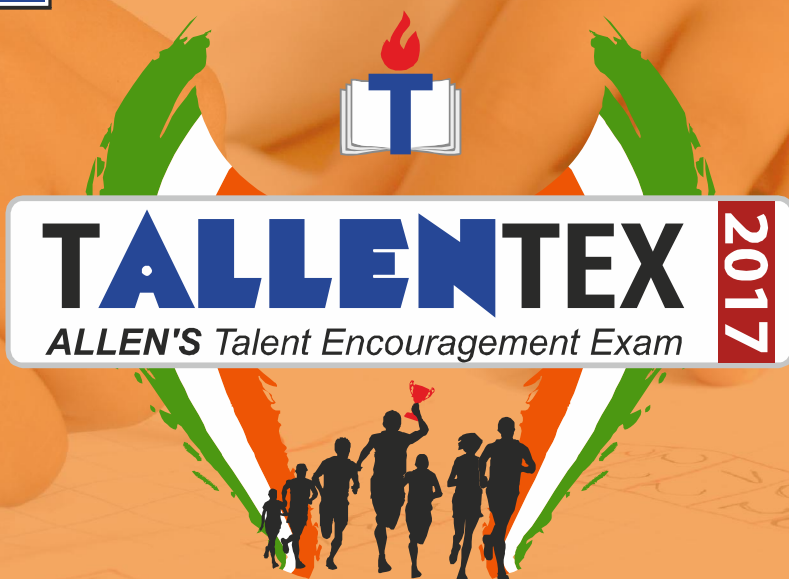
A Specially Designed Initiative  
to Encourage Young Talent by



TALLENTEX 2017 : (23, October 2016)

PAPER CODE

U



CLASS - 6<sup>th</sup> (VI)

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: 12, Chemistry: 11, Biology: 12, Maths: 25 & Mental ability: 20).
7. Answer once marked by pen cannot be cancelled.
8. Each correct answer carries 4 marks. (**There is no negative marking**)
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 Dhirga 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




















<b>AIR : 3</b>  Lajjaben Patel Classroom	<b>AIR : 4</b>  Het Sanjay Shah Classroom	<b>AIR : 5</b>  Mridul Sharma Classroom	<b>AIR : 6</b>  Dyuti Shah Distance	<b>AIR : 7</b>  Aishvary Gupta Classroom	<b>AIR : 8</b>  Kushagra Pandey Distance	<b>AIR : 9</b>  Ekansh Goyal Classroom
<b>AIR : 11</b>  Ira Pachori Distance	<b>AIR : 12</b>  Ritik M Goyal Classroom	<b>AIR : 13</b>  Amol Sood Classroom	<b>AIR : 17</b>  Ashank Khaitan Distance	<b>AIR : 19</b>  Dhruvil D. Shah Classroom	<b>AIR : 20</b>  Swetank Anand Classroom	<b>AIR : 21</b>  Ankush Garg Classroom
<b>AIR : 23</b>  Sanil Garg Distance	<b>AIR : 25</b>  Aditya Agarwal Distance	<b>AIR : 27</b>  Vishal Saini Distance	<b>AIR : 28</b>  Gurasis Singh Distance	<b>AIR : 29</b>  Manavi Gupta Classroom	<b>AIR : 30</b>  Anubhav Das Distance	<b>AIR : 31</b>  Prachi Singh Classroom
<b>AIR : 32</b>  Japnoor Kaur Distance	<b>AIR : 33</b>  Ayush Jain Classroom	<b>AIR : 36</b>  Sukriti Chaudhri Distance	<b>Total Qualified</b> <b>602</b> 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

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

<b>AIR-105</b>  Megh V. Thakkar Classroom	<b>AIR-112</b>  Shashwat Agrawal Classroom	<b>AIR-127</b>  Rohan Garg Classroom	<b>AIR-130</b>  Amey Ravindra Patil Distance	<b>AIR-132</b>  Akash Bhardwaj Classroom	<b>AIR-137</b>  Rahul Agrawal Classroom	<b>AIR-145</b>  Sharvik Mital Classroom	<b>AIR-151</b>  Shashwat Shivam Distance	<b>AIR-158</b>  Ankit Dhankhar Classroom	<b>AIR-168</b>  Sukriti Gupta Distance	<b>AIR-169</b>  Georgi Joseph Boby Distance
<b>AIR-171</b>  Rushikesh Vitthal Distance	<b>AIR-177</b>  Koustav Yacha Classroom	<b>AIR-178</b>  Rahul M. Chanduka Classroom	<b>26660</b> Students secured JEE Main All India Ranks from all Courses of ALLEN				<b>AIR-185</b>  Gavali H. Abhiman Distance	<b>AIR-190</b>  Atri Dutta Distance	<b>AIR-197</b>  Vansh J. Chiripal Classroom	

Authenticity of Result : Power of **ALLEN**



# TALLENTEX Success Power Session & Rewards Ceremony

(29 November 2015)

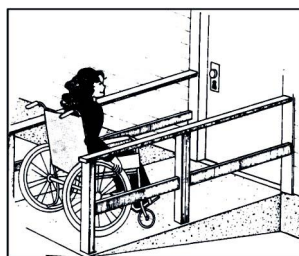




## SECTION - A : PHYSICS

This section contains **12 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

- Which of the following statement(s) is/are correct?  
 (a) Planets are celestial bodies that revolve around the sun.  
 (b) Planets emit light like the sun or the stars.  
 (1) (a) only                      (2) (b) only                      (3) Both (a) and (b)                      (4) Neither (a) nor (b)
- What motion causes day and night?  
 (1) revolution of Earth                      (2) revolution of the Moon  
 (3) rotation of Earth                      (4) rotation of the Moon
- The diagram below shows a girl in a wheelchair using a ramp to enter a building. The wheels of wheel chair she is using is a combination of two motions. These two motions are



- (1) Rotational motion and translational motion                      (2) Periodic motion and rotational motion  
 (3) Translational motion and periodic motion                      (4) Translational motion and oscillatory motion
- Two students while sitting across a table looked down on to its top surface. They noticed that they could see their own and each others image. The table top is likely to be made of  
 (1) Unpolished wood                      (2) Red stone  
 (3) Polished steel                      (4) Wood top covered with cloth
- In 1859, Henry Bursill published a book of hand shadows. The picture below shows one of these hand shadows.

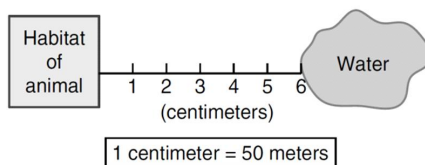


Which property of light makes it possible to produce hand shadows?

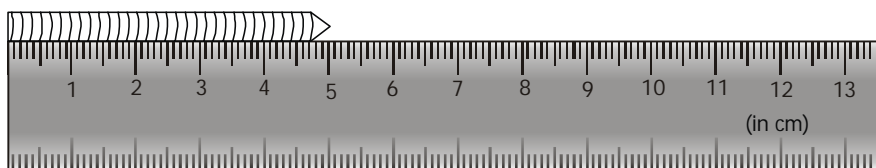
- (1) Light can be refracted                      (2) Light is a form of energy  
 (3) Light travels in straight lines                      (4) Light can be separated into different colours
- Which of the following is/are luminous source(s) of light?  
 (i) candle                      (ii) torch                      (iii) mirror  
 (1) (ii) only                      (2) (i) and (ii) only  
 (3) (ii) and (iii) only                      (4) (i), (ii) and (iii)



7. The picture shown below illustrates the habitat of a population of animals and its distance from the nearest water source. How far does an animal have to travel to obtain water?



- (1) 6 centimeter      (2) 50 meter      (3) 12 meter      (4) 300 meter
8. The length of the pencil as shown in the figure below is

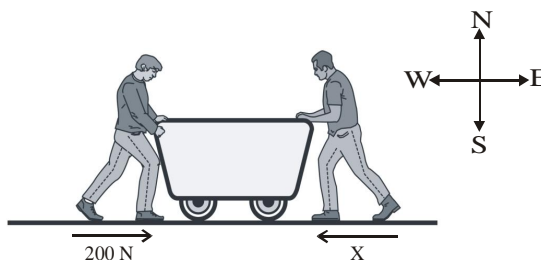


- (1) 8 cm      (2) 4 cm      (3) 2 cm      (4) 5 cm
9. Look at the data table below.

Planet	Distance to the Sun (in miles)
Mercury	36,000,000
Venus	67,000,000
Earth	93,000,000
Mars	142,000,000

Which conclusion can you draw from the data given in the table?

- (1) There are four planets in the solar system.  
 (2) Earth is farther from the Sun than Venus.  
 (3) Mars revolves around the Sun more quickly than Earth  
 (4) Mars rotates more slowly than Mercury.
10. Two students are pushing a cart, as shown below.

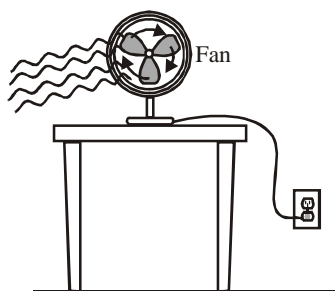


What should be the magnitude of force 'X' so that the cart moves towards west ?

- (1) 50 N      (2) 150 N      (3) 200 N      (4) 350 N

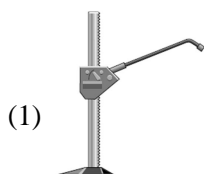


11. The diagram below shows a fan that uses energy to move the air in a room.



Which form of energy causes the blades of the fan to turn?

- (1) chemical (2) electrical  
(3) heat (4) light
12. Which of these has the greatest number of different simple machines?



## SECTION-B : CHEMISTRY

This section contains **11 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

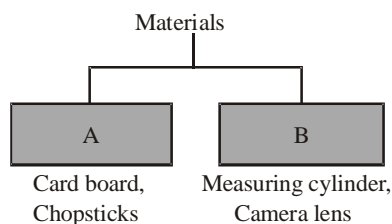
13. Sarah heats room-temperature water in a microwave to make hot apple cider. The diagram below illustrates the water particles before they are heated. Which of the following correctly describes the effect of the microwave's heat on the particles?



- (1) The particles will stop moving.  
(2) The particles will remain at the same speed.  
(3) The particles will begin to move faster and farther apart.  
(4) The particles will begin to slow down and move closer together.
14. Jean wants to cut her grass in a way that will have the least effect on the environment. What should Jean use to cut her grass?
- (1) A lawn mower with an electric engine that she must walk behind and push.  
(2) A lawn mower with a gasoline engine that she must walk behind and push.  
(3) A lawn mower without an engine that she must walk behind and push.  
(4) A lawn mower with a gasoline engine that she can ride.



15. In the diagram below, some things have been classified according to the materials they are made of. What do A and B stand for respectively?

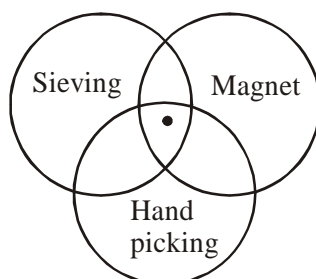


- (1) Wood, metal      (2) Plastic, glass      (3) Bamboo, glass      (4) Bamboo, plastic
16. Match the column.

Mixture		Separation method	
a.	Sand in water	(i)	Winnowing
b.	Lady finger and Potato	(ii)	Sieving
c.	Peels from roasted ground nut	(iii)	Sedimentation and decantation
d.	Pebbles and sand	(iv)	Hand-picking

a	b	c	d
(1) (ii)	(iii)	(i)	(iv)
(2) (iii)	(i)	(iv)	(ii)
(3) (iii)	(iv)	(ii)	(i)
(4) (iii)	(iv)	(i)	(ii)

17. Study the venn diagram. Centre point (•) represents which of the following mixture?



- (1) Iron powder, Olive oil and lady finger  
 (2) Coconut oil, iron powder, pulses and lady finger  
 (3) Pulses, rice flour, lady finger and iron fillings  
 (4) Sugar, water, iron powder, lady finger
18. Select the correct option from the codes given below.

**Column I**

- (a) Plant fibre  
 (b) Twisted fibre  
 (c) Semi-synthetic fibre

- (1) a- i ,b-iii, c-ii  
 (3) a-ii, b-i, c-iii

**Column II**

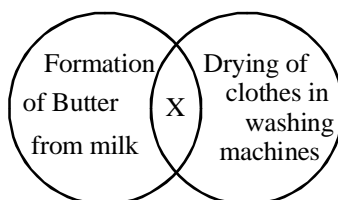
- (i) Rayon  
 (ii) Yarn  
 (iii) Jute  
 (2) a-iii, b-ii, c-i  
 (4) a-ii, b-iii, c-i

19. Read the following statements.

- (a) Cotton fibres are separated from the seeds by \_\_\_\_\_.  
 (b) The \_\_\_\_\_ of the cotton plant are called cotton bolls.  
 (c) The process of making yarn from fibres is called \_\_\_\_\_.  
 (d) The process of arranging two sets of yarns together to make a fabric is called \_\_\_\_\_.

Select the option which correctly fills the blanks in any two of the above statements.

- (1) (a) Ginning, (b) Stem (2) (b) Spinning, (d) Knitting  
 (3) (b) Fruits, (d) Weaving (4) (b) Fruits, (d) Spinning
20. Which of the following is 'NOT' exist in gaseous state at room temperature and normal atmospheric pressure?  
 (1) Silver (2) Oxygen  
 (3) Hydrogen (4) Nitrogen
21. Which one of the following is not a fossil fuel?  
 (1) Natural gas (2) Petroleum (3) Coal (4) Uranium
22. Identify (X).



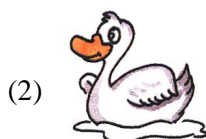
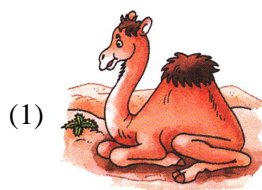
- (1) Evaporation (2) Sieving  
 (3) Filtration (4) Churning
23. Abu scratched four different materials P, Q, R and S with an iron nail. He observed that he could make a scratch only on material S with the iron nail. What could be say about the material of S ?  
 (1) It is definitely metal.  
 (2) It is transparent material.  
 (3) It is either plastic or wood.  
 (4) It is a softer material than iron.

## SECTION-C : BIOLOGY

This section contains **12 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

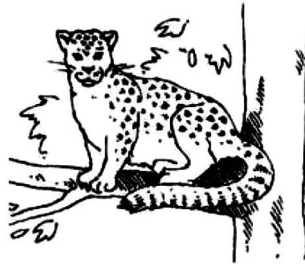
24. Identify the organism with the help of given characters.

- (a) I live in Antarctica.  
 (b) Stored fat in my body keeps me warm.  
 (c) I have two flippers.

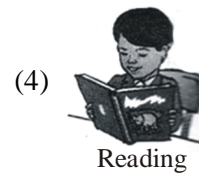
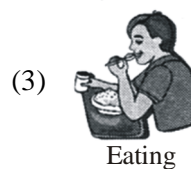
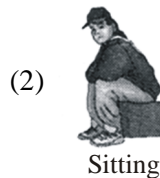
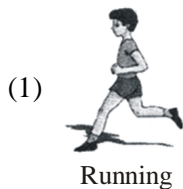




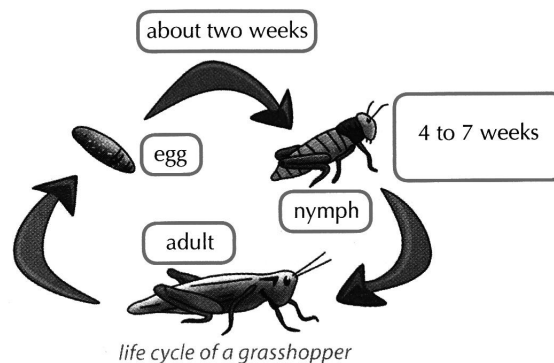
25. The animal shown below has one type of tooth that is well suited to its feeding habits. These teeth are called



- (1) incisors                      (2) canines                      (3) premolars                      (4) molars
26. In which of the following activity, heart rate is maximum ?



27. Which of the following vitamin helps in the formation of red blood cells and its deficiency can lead to anaemia ?
- (1) Vitamin B<sub>1</sub>                      (2) Vitamin C                      (3) Vitamin B<sub>12</sub>                      (4) Vitamin D
28. Image below shows the life cycle of a grasshopper. The nymph undergoes a phenomenon and changes into an adult. This phenomenon is known as

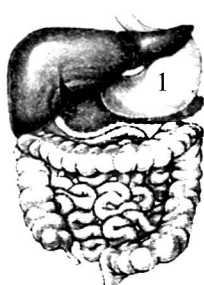


- (1) camouflage                      (2) moulting                      (3) hibernation                      (4) aestivation
29. When we eat rice and chapati we get a sweet taste after chewing them for some time. What is the reason behind this ?
- (1) This is because rice and chapati are sweet in taste.  
 (2) This is because rice and chapati are both white in colour.  
 (3) This is because rice and chapati contain proteins which is converted to sugars with the action of gastric juices.  
 (4) This is because rice and chapati contain starch which is converted to sugars with the action of saliva.

30. Choose the correct match regarding biotic and abiotic factors.

Biotic factor	Abiotic factor
(1) Air	Water
(2) Plant	Animal
(3) Plant	Water
(4) Water	Soil

31. The picture below shows the human digestive system. The food after being torn into the mouth, passes from the food pipe and enters 1. From 1, it enters the intestines where it further gets digested and ultimately leaves the body as waste. What is 1 ?

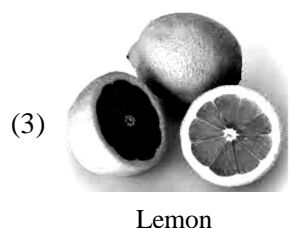
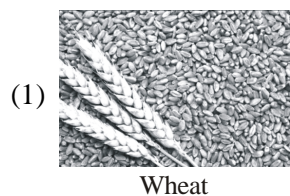


- |               |             |
|---------------|-------------|
| (1) Food pipe | (2) Mouth   |
| (3) Intestine | (4) Stomach |

32. In a jungle there exists many different types of animals. Some of these animals eat plants while some eat meat. All these animals are interdependent on each other. A huge animal-elephant-eats only plants. Which type of consumer is it ?

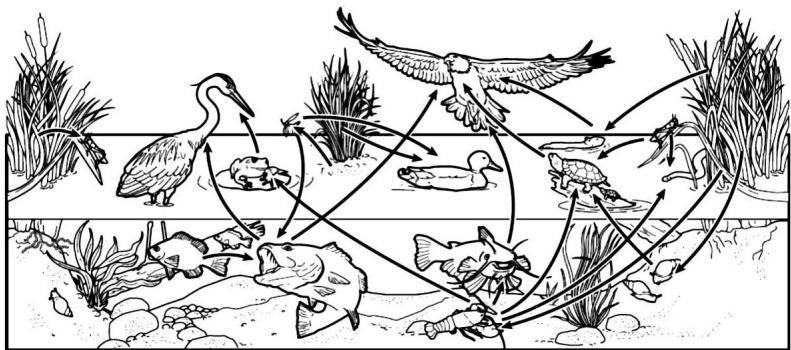
- |                           |                          |
|---------------------------|--------------------------|
| (1) Herbivore             | (2) Carnivore            |
| (3) Second level consumer | (4) Third level consumer |

33. Zacob is a vegetarian. There is deficiency of calcium in his body. Which one of the following food items he should take to improve the calcium in his body ?






34. Look at the diagram of a food web shown below.





In this food web, the hawk is the


- (1) primary consumer
- (2) decomposer
- (3) scavenger
- (4) producer

35. Good sources of protein are given below. Which of the following sources is different from the other sources?

(1)   
Pulses

(2)   
Meat




















(3)   
Fish

(4)   
Chicken

SECTION-D : MATHEMATICS

This section contains **25 Multiple Choice Questions**. Each question has four choices (1), (2), (3) and (4) out of which **ONLY ONE** is correct.

36. The following pictograph shows the number of cakes sold by a confectionery shop in five days

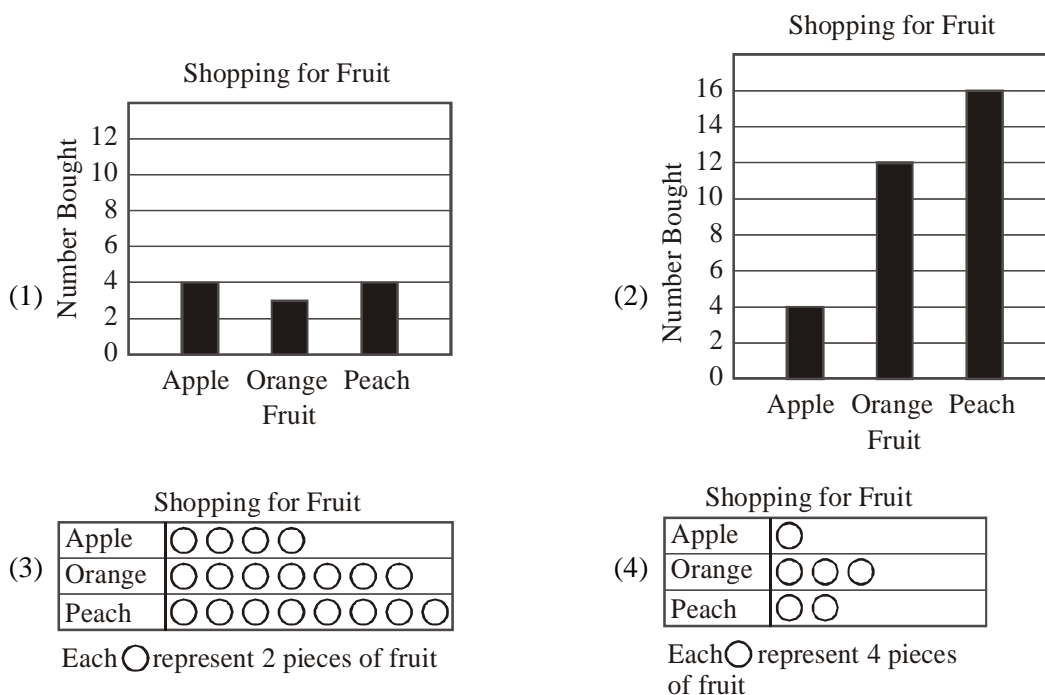
Day	No. of Cakes sold	 = 10 Cakes
Monday	   	
Tuesday	   	
Wednesday	 	
Thursday	  	
Friday	    	

How many cakes were sold on Monday?














































- (1) 30
- (2) 35
- (3) 40
- (4) 45

37. The perimeter of square whose length of the side is 17 cm is  
 (1) 62 cm (2) 64 cm (3) 68 cm (4) 80 cm
38. On subtracting  $-9$  from 2, we get  
 (1) 11 (2) 7 (3)  $-7$  (4)  $-11$
39. Isha bought three kinds of fruit at the store.
- She bought 4 apples.
  - She bought 3 times as many oranges as apples.
  - She bought 4 more peaches than apples.

Which graph represents the fruits Isha bought?



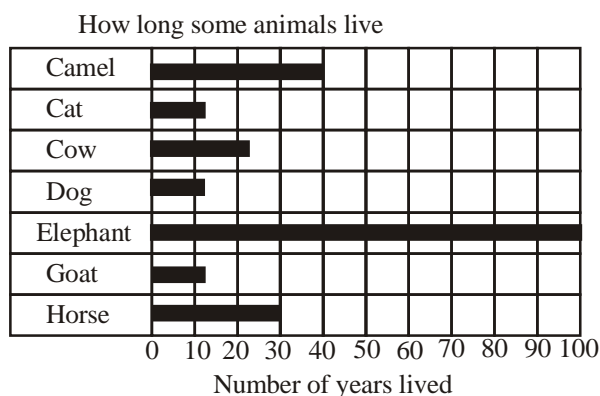
40. If there are 18 spokes in a bicycle wheel, then the angle between a pair of adjacent spokes is  
 (1)  $30^\circ$  (2)  $24^\circ$  (3)  $20^\circ$  (4)  $36^\circ$
41. Rajesh was piling tiles. Each tiles was 8 mm thick and weighted 18 g. Then how many kilograms did the 6.4 m high pile of tiles weigh?  
 (1) 18 kg (2) 14.4 kg (3) 18.4 kg (4) 144 kg
42. The numbers of books in the school library are shown in the given pictograph. One figure of a book represents 10 books.

French	           
Maths	       
Science	         
Social Studies	        
English	     

Name the subject on which least number of books are there in the library. Also find the number of books ?

- (1) English, 60 (2) Maths, 80 (3) English, 6 (4) French, 12

43. How many minimum points are required to define a unique plane?  
 (1) any 1 (2) any 2  
 (3) 3 collinear (4) 3 non collinear
44. The length of the rectangular field is thrice its breadth. If its perimeter is 40m, find area of the field (in sq m).  
 (1) 50 (2) 65 (3) 70 (4) 75
45. a, b, c are the 3 consecutive integers such that  $a + b + c = 822$ , then c is  
 (1) 527 (2) 216 (3) 273 (4) 275
46. The difference between the place value and face value of 7 in 658742 is  
 (1) 0 (2) 42 (3) 735 (4) 693
47. Jai has 2 containers of liquid soap that are of same size. He wants to pour all the liquid soap from one container into the other. One container is  $\frac{5}{8}$  full. The other container is  $\frac{3}{5}$  full. Which statement best explains whether all the liquid soap will fit into one container?
- (1) All the soap will fit into one container because  $\frac{5}{8} + \frac{3}{5} = \frac{8}{13}$ , which is less than 1.
- (2) All the soap will fit into one container because  $\frac{5}{8} + \frac{3}{5} = \frac{8}{40}$ , which is less than 1.
- (3) All the soap will not fit into one container because one of the containers is more than half full and the other is almost half full.
- (4) All the soap will not fit into one container because each container is more than half full.
48. Use the graph to answer the following question. How many of these animals can live longer than 20 years?
























- (1) 1 (2) 2 (3) 4 (4) 10
49. Reciprocal of  $2\frac{1}{3}$  is
- (1)  $\frac{7}{3}$  (2)  $-\frac{7}{3}$  (3)  $-\frac{3}{7}$  (4)  $\frac{3}{7}$



50. Number name for 123,080,603 is  
 (1) one two three eighty thousand six hundred three.  
 (2) one hundred twenty three million eight thousand six hundred three.  
 (3) one hundred twenty three million eighty thousand six hundred three.  
 (4) one twenty three million eighty thousand six hundred.
51. Mr. Aniket distributed Rs.4950 equally amongst 11 of the children in the society. All the children added Rs.5 from their pocket money and donated all the money to a charity organization working for disabled kids. Find how much money was donated to the charity organization.  
 (1) Rs.4955 (2) Rs.5005  
 (3) Rs.5750 (4) Rs.6250
52. Simplify :  $8.7 - [7.6 - \{6.5 - (5.4 - \overline{4.3 - 2})\}]$   
 (1) 3.5 (2) 4  
 (3) 4.5 (4) 5
53. The following pictograph shows the number of computers sold by a company during a week.

The scale   $\equiv 6$  is used

Monday	    
Tuesday	  
Wednesday	 
Thursday	     
Friday	   
Saturday	

How many computers were sold on Friday and Monday ?

- (1) 24 (2) 54  
 (3) 30 (4) 126
54. Which list shows the numbers below in order from least to greatest ?

$$-6\frac{1}{2}, 7.25, \frac{46}{7}, 6\frac{1}{4}, -5.58, \frac{84}{9}$$

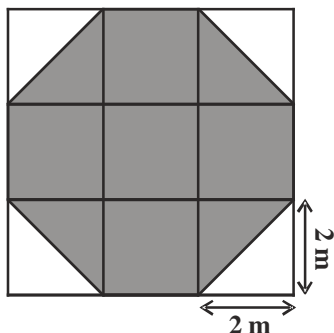
(1)  $-6\frac{1}{2}, -5.58, 6\frac{1}{4}, \frac{46}{7}, 7.25, \frac{84}{9}$

(2)  $-5.58, 6\frac{1}{4}, \frac{46}{7}, -6\frac{1}{2}, \frac{84}{9}, 7.25$

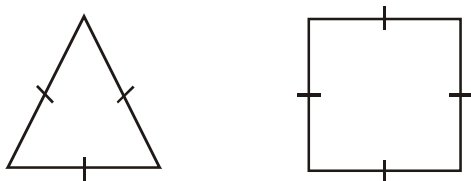
(3)  $-6\frac{1}{2}, 6\frac{1}{4}, -5.58, \frac{46}{7}, 7.25, \frac{84}{9}$

(4)  $-5.58, -6\frac{1}{2}, 6\frac{1}{4}, \frac{46}{7}, 7.25, \frac{84}{9}$

55. Find the area of the shaded part.



- (1)  $7 \text{ m}^2$                       (2)  $28 \text{ m}^2$                       (3)  $14 \text{ m}^2$                       (4)  $32 \text{ m}^2$
56. The line segments composing both shapes below are all congruent. The perimeter of the triangle is 36 units in length.



What is the area, in sq. units of square.

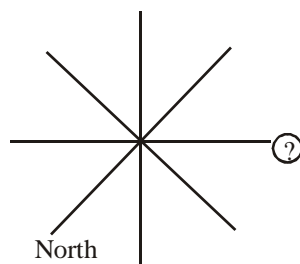
- (1) 48.5                      (2) 144                      (3) 72                      (4) None of these
57. How many zeros are there at the end of the number  $201325 \times 201326 \times 201317$ ?
- (1) 0                      (2) 1                      (3) 2                      (4) 8
58. How many square tiles are required to cover a square floor having its perimeter 48 m, if each tile has length 2 m?
- (1) 30                      (2) 34                      (3) 36                      (4) 49
59.  $32 \div 3\frac{1}{5}$  when simplified gives
- (1) 10                      (2)  $\frac{2}{5}$                       (3)  $\frac{5}{2}$                       (4)  $\frac{1}{10}$
60. What should be subtracted from 37 to get  $-5$  ?
- (1)  $-32$                       (2)  $-42$                       (3) 41                      (4) 42

### 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. From the given alternative words, select the word which can be formed using the letters of the given word : IMMEDIATELY
- (1) DIALECT                      (2) LIMITED  
 (3) DIAMETER                      (4) DICTATE
62. Which letter will be 4<sup>th</sup> to the left of 'O' in English alphabet series ?
- (1) L                      (2) J                      (3) K                      (4) T

63. Govind starts from his house towards West. After walking a distance of 25 m he turned towards right and walked 10 m. He then turned left and moving a distance of 10 m, turned to his left again and walked 40 m. He now turns to the left and walks 5 m. Finally he turns to his left. In which direction is he walking now?  
(1) North (2) South (3) East (4) West
64. Find the direction which replaces '?' in the following figure ?



- (1) North- East (2) North - West (3) South-East (4) South- West
65. If in a certain code TALLENTX is coded as UCOPJTAMG, then in the same way , how will you code the word ABILITY in the same code language?  
(1) BDMPNZF (2) RZNPLDB  
(3) CDMPNZF (4) BDLPNZF
66. A man is facing South. He turns  $135^\circ$  in the anticlockwise direction and then  $180^\circ$  in the clockwise direction. Which direction is he facing now ?  
(1) North-East (2) North-West  
(3) South-East (4) South-West
67. If every alternate letter of English alphabet from B onwards (including B) is written in lower case (small letters) and the remaining letters are capitalized, then how will the third month of the second half of the year be written ?  
(1) sePTemBeR (2) SEPTemBER (3) SEptEMbEr (4) None of these
68. If Green is called Red, Red is called Yellow, Yellow is called Blue and Blue is called Orange then what is the colour of clean Sky ?  
(1) Yellow (2) Orange (3) Red (4) Green

**Direction (Q.69 & Q.70) :** Answer the following question based on the given information :

- (i) Six children B, D, C, M, J and K are split in two group of three each and are made to stand in two rows in such a way that a child in one row is exactly facing a child in the other row.
- (ii) M is not at the ends of any row and is to the right of J who is facing C, K is to the left of D who is facing "M".
69. Which of the following groups of children are in the same row ?  
(1) BMD (2) MJK  
(3) BDC (4) JMB
70. Who is the immediate left of B.  
(1) M (2) D  
(3) J (4) Data inadequate



71. Find the next number in the given sequence:

3, 6, 12, 24, 48, ?

- (1) 100 (2) 192 (3) 52 (4) 96

72. Find the missing term ?

4, 16, 36, ?, 100, 144

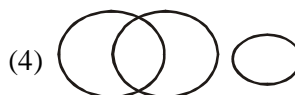
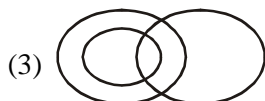
- (1) 64 (2) 72 (3) 84 (4) 81

73. Find the next number in the given sequence:

2, 12, 30, 56, 90, ?

- (1) 132 (2) 100 (3) 156 (4) 112

74. Which of the following diagrams correctly represents Elephant , Wolves , Animals ?

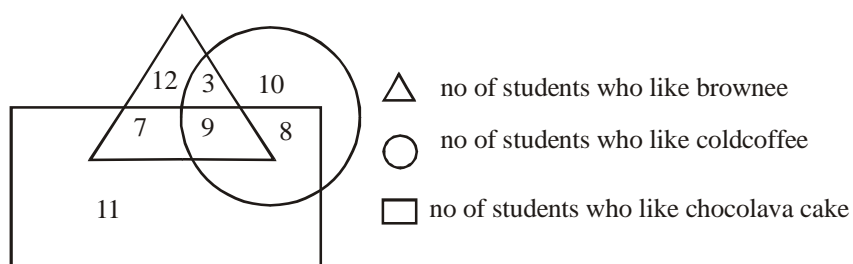


75. What will be the Mirror Image of figure (X) if the mirror is placed at the left side of the figure (X)?



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

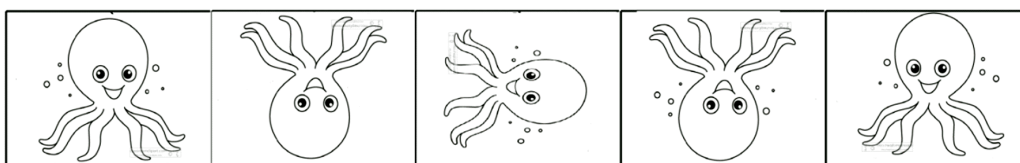
76. Study the following Venn Diagram and answer the question given below. Here



How many students are there who like Brownee, cold Coffee as well as Chokolava cake?

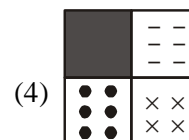
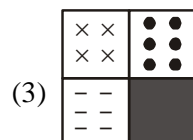
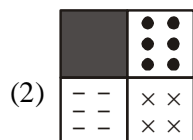
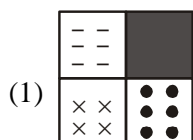
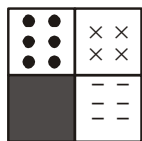
- (1) 3 (2) 8 (3) 9 (4) 10

77. Find Water Image of figure (X) :



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

78. Choose the correct option for Water Image of given figure :



79. Choose the correct Mirror Image of the figure (X).



(X)



(1)

(2)

(3)

(4)

80. If DREAM is coded as 78026 and CHILD is coded as 53417 then what will be the code of LEAD ?

(1) 1020

(2) 1027

(3) 1028

(4) 1024

**SPACE FOR ROUGH WORK**



# ALLEN System



Orientation Session



Classroom Session



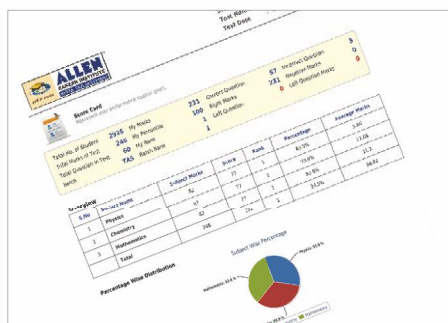
Prarthana



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**



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

## 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**  
AMARJIT 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  
INIAO 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

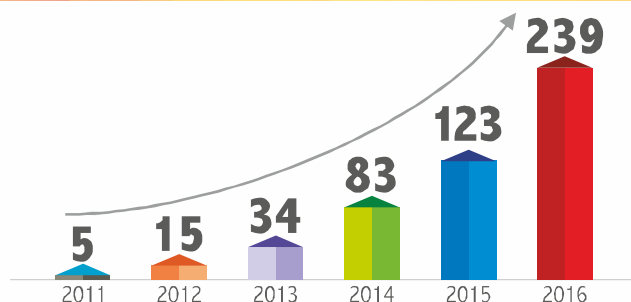
Conducted by  
Unified Council, Hyderabad



### 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)

### TECHNOTHLON PRELIMS 2015

**20** Students (10 Teams)  
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



### TECHKRITI

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

Conducted by IIT Kanpur





# ALLEN Champion's Day 3<sup>rd</sup> Edition

(21 August 2016)



India's Unique  
Self Nominated

CHAMPION'S HONOR AND MENTORING PROGRAM



Registrations Open

No Fee

No Examination

Just Nomination!



Helpline No. : 97998-45888, 97998-46888 | [www.allenchamp.com](http://www.allenchamp.com)

Corporate Office "SANKALP", CP-6, Indra Vihar, Kota (Rajasthan)-324005 Trin :+91-744-5156100 | E-Mail : [info@allen.ac.in](mailto:info@allen.ac.in) | [www.allen.ac.in](http://www.allen.ac.in)



# Answer Key



## Class- 6<sup>th</sup> (VI)

Held on : 23 October 2016

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

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

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

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