A Specially Designed Initiative to Encourage Young Talent by



TALLENTEX 2017 : (09, October 2016)

PAPER CODE



CLASS - 7th (VII)

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.
- 3. Carefully fill your **PAPER CODE** and present **CLASS** in space provided **(Serial No. 6 & 12)** of optical response sheet.
- Please make sure that paper you received is of your class only.
- 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



Bhavesh Dhingra Classroom





Kunal Goyal Classroom



Gaurav Didwania Classroom



AIR: 18

Rohan Garg Classroom



Animesh Bohra Distance



Ritesh Goenka Classroom

AIR: 27



Vikrant Garg Classroom

AIR: 29

Sharvik Mittal Classroom



Ishan Tarunesh Distance



Naman Jain Classroom



Sushil Khvalia 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



AIR: 2





Classroom





Prakhar Bansal Classroom



Nikhil Bajiya Classroom



Lajjaben Patel Classroom





AIR: 4



Gurasis Singh Distance



Dyuti Shah Distance

AIR: 18

Swetank Anand

Classroom



Japnoor Kaur Distance





Classroom



Mahak Kr. Surana Classroom



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 AIR: 4



Lajjaben Patel Classroom



Het Sanjay Shah Classroom



Mridul Sharma Classroom



Dyuti Shah Distance



AIR: 7

Aishvary Gupta Classroom





Distance



Classroom

AIR: 11



Ira Pachori Distance



Ritik M Goyal



Amol Sood



Ashank Khaitan



Dhruvil D. Shah



Classroom







Sanil Garg Distance



Aditya Agarwal Distance



Vishal Saini Distance



Gurasis Singh Distance



Manavi Gupta Classroom



AIR: 30

Anubhav Das



Prachi Singh Classroom



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



Classroom

AIR-178



Rohan Garg Amey Ravindra Patil Akash Bhardwaj Rahul Agrawal



AIR-137





Sharvik Mital Shashwat Shivam Ankit Dhankhar Distance









Sukriti Gupta Georgi Joseph Boby

AIR-171



Rushikesh Vitthal Distance



Koustav Yacha Classroom



Rahul M. Chanduka Classroom

Students secured JEE Main

Gavali H. Abhiman Distance



Atri Dutta Distance



Vansh J. Chiripal Classroom

All India Ranks from all Courses of ALLEN

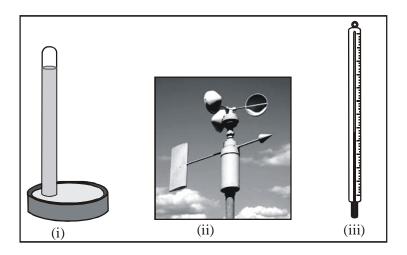
TALLENTEX Success Power Session & Rewards Ceremony (29 November 2015) Recognition & Reward at NATIONAL Level



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.

1. Study the following instruments.



Which combination of the above from (i) to (iii) would show temperature, wind speed and air pressure respectively ?

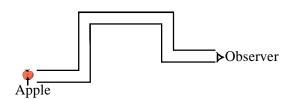
(1) (ii); (i); (iii)

(2) (iii); (ii); (i)

(3) (ii); (iii); (i)

(4) (i); (ii); (iii)

2. Look at the figure given below carefully.



How many mirrors are required to enable the observer to see the apple ?

(1) 4

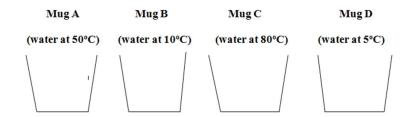
(2) 2

(3) 1

- (4) 3
- **3.** Anjali placed a metre stick in the playground at 8.00 a.m. in the morning. How will the shadow of the stick at 1:00 pm be in comparison to the one at 8:00 am?
 - (1) There will be no shadow
 - (2) The shadow will be longer and on the opposite side of the sun.
 - (3) The shadow will be shorter and on the same side as the sun.
 - (4) The shadow will be shorter and on the opposite side of the sun.



4. Four identical mugs of water were left on a table at room temperature as shown below.



Which mug(s) lose heat to the surrounding air?

(1) A and B only

(2) A and C only

(3) B and C only

- (4) B and D only
- 5. Two thermometers one Celsius and the other Fahrenheit are put into a hot bath. The reading on Fahrenheit thermometer is just three times the reading on Celsius thermometer. The temperature of bath is
 - (1) 100 °C

(2) 80/3 °C

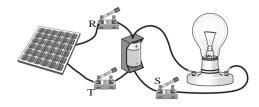
(3) 80 °C

- (4) 70 °C
- **6.** Match the entries of column-I with column-II and choose the correct alternative.

Column-I

Column-II

- (a) Lodestone
- (p) repel each other
- (b) Like poles
- (q) natural magnet
- (c) Hammering
- (r) demagnetisation
- (d) Unlike poles
- (s) attract each other
- (1) (a)–(r); (b)–(s); (c)–(q); (d)–(p)
- (2) (a)–(r); (b)–(q); (c)–(s); (d)–(p)
- (3) (a)–(q); (b)–(r); (c)–(p); (d)–(s)
- (4) (a)-(q); (b)-(p); (c)-(r); (d)-(s)
- 7. A simplified diagram of a system using solar energy is shown.



To recharge the battery for later use without lighting the bulb, which of the following switch(s) should be closed?

(1) Switch S only

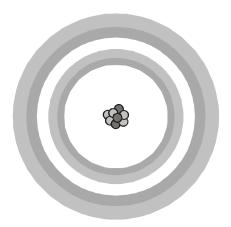
(2) Switches R and S only

(3) Switches R and T only

(4) Switches R, S, and T

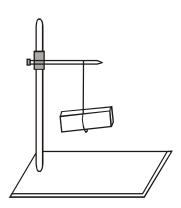


8. A model of a beryllium atom is shown below.



What types of particles are found in the cloud surrounding the atom's nucleus?

- (1) Positively charged particles and negatively charged particles
- (2) Negatively charged particles only
- (3) Neutral particles and positively charged particles
- (4) Positively charged particles only
- 9. Suresh has a small piece of metal and a thread. To find whether the piece is a magnet or not, he

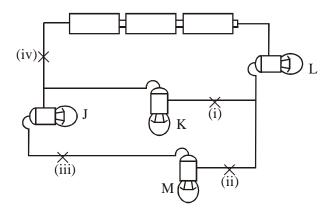


- (1) requires a piece of magnetic substance
- (2) requires a piece of non-magnetic substance
- (3) requires a magnet or a compass
- (4) does not require anything else
- **10.** Which of the following is not correct?

| | Example | Type of Motion |
|-----|--|-----------------------|
| (1) | Earth's motion | Periodic |
| (2) | A potter's wheel | Rotational |
| (3) | A swimmer swimming from one bank of a river to the | Translational |
| | other and back in a straight line | |
| (4) | A cockroch trying to hide | Curvilinear |



11. The diagram below shows four lighted bulb, J, K, L and M connected to three batteries. A switch is added such that when it is open, only one bulb is not lighted up while the other three remain lighted up at all times.



The part of the circuit in the diagram above where the switch is most likely placed is

- (1) (i)
- (2) (ii)
- (3) (iii)
- (4) (iv)
- 12. Which piece of playground equipment is made for oscillatory motion?









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.** What's common among motion of the planets around the sun, blinking of traffic lights and occurring of seasons?
 - (1) Irreversible changes
 - (2) Chemical changes
 - (3) Periodic changes
 - (4) Undesired changes
- 14. The fibres obtained from animals are made up of
 - (1) Proteins

(2) Glucose

(3) Cellulose

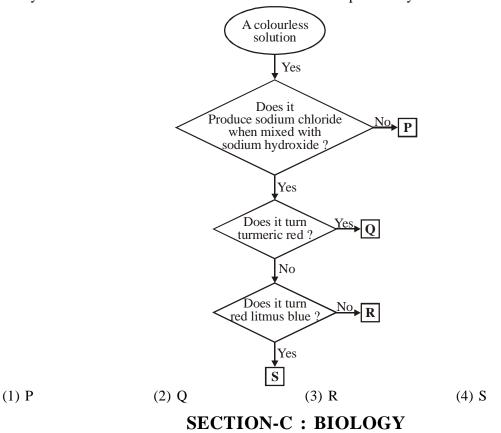
- (4) Vitamins
- 15. Select the mismatched pair out of the following.
 - (1) World water day 22 march
 - (2) Hydrosphere solid part of earth's crust
 - (3) Rain water harvesting water conservation
 - (4) Step wells Traditional water harvesting structures



| 16. | Two samples X | and Y are tested with v | various indicators. The | observations are listed in the fol | lowing |
|-----|-------------------|--------------------------|-------------------------|-------------------------------------|----------|
| | table. | | | | |
| | Sample | Phenolphthalein | Methyl orange | | |
| | X | Colourless | Red | | |
| | Y | Light pink | Yellow | | |
| | What are sample | les X and Y? | | | |
| | (1) X is HCl ar | nd Y is NaOH | (2) X is NaO | H and Y is HCl | |
| | (3) X is NaOH | and Y is KOH | (4) X is HCl | and Y is HNO ₃ | |
| 17. | Choose the inco | orrect statement among | the following. | | |
| | (1) Tamarind, to | omato and sour milk are | e the natural sources o | f tartaric acid, malonic acid and | l lactic |
| | acid respect | ively. | | | |
| | (2) The atmosp | here of venus is made | up of thick white and | yellowish clouds of sulphuric a | cid. |
| | (3) Sodium car | bonate is used for remo | ving hardness of wate | r. | |
| | (4) Dilute HCl | reacts with solid sodium | n carbonate to give br | isk effervescence. | |
| 18. | Water has its m | naximum density at | | | |
| | (1) 100°C | (2) 0°C | (3) 4°C | (4) 78°C | |
| 19. | Cooking | Crumpling a | sheet of paper | Burning of wood | |
| | Digestion of fo | od Boiling an e | egg | Crushing a can | |
| | Rusting of iron | Melting of i | ce cube | Breaking a glass | |
| | Grass mowing | | | | |
| | How many exam | mples of chemical chan | ges are there in the gr | rid ? | |
| | (1) 4 | (2) 5 | (3) 6 | (4) 7 | |
| 20. | Which of the fo | ollowing is not a type o | f silk? | | |
| | (1) Mulberry si | lk (2) Tussar silk | (3) Muga silk | (4) Mohair silk | |
| 21. | Identify an und | esirable change from th | ne following. | | |
| | (1) Ripening of | fruits | (2) Occurren | nce of earthquakes | |
| | (3) Preparing s | tarch by photosynthesis | in plants (4) Evaporat | ion of sea water | |
| 22. | Read the passa | ge and select the optio | n which correctly fills | the blanks in any two of the | below |
| | passage. | | | | |
| | The science of | raising silk worms, so a | s to obtain silk cocoon | s, is called sericulture. The initi | al step |
| | in the harvestin | g of silk fibre is to(| A) the insect inside t | he cocoon. The cocoons are the | e dried |
| | and brushed to | remove coarse (B) | portion which consists | s of coarse filaments. After bru | ıshing, |
| | filaments from | four to eight cocoons | are joined and twisted | . The thread is called (C) | silk. It |
| | usually consists | of (D) individual s | ilk fibres. | | |
| | (1) (C)-old, (D) |)-40 | (2) (B)-inne | r, (A)-generate | |
| | (3) (A)-kill, (C) |)-raw | (4) (A)-kill, | (C)-New | |

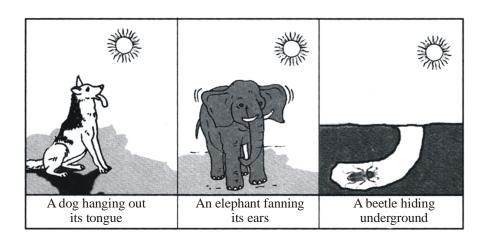


23. Study the flowchart shown here. Which letter could represent hydrochloric acid?



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. Look at the animals shown below.



Which of the following characteristics of living things are the animals showing?

(1) Need food to stay alive

(2) Growth

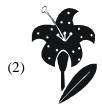
(3) Reproduction

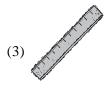
- (4) Response to changes around them
- 25. Which one of the following plant does not have edible root?
 - (1) Sugarcane
- (2) Sweet potato
- (3) Turnip
- (4) Radish

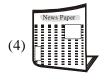


- **26.** Harry is an ecofriendly boy. He loves nature. Her mother is opposite to him. She throws everyday's wastes from the kitchen in the open vacant places. Which of the following activities he should suggest to minimize pollution?
 - (1) Throw the wastes in the near by water sources.
 - (2) Collect them all in big polythene and throw it in the vacant place near his house.
 - (3) Recycle the suitable wastes.
 - (4) Dump them in a pit and cover it with soil.
- Which of the following is nonbiodegradable or cannot be recycled? 27.

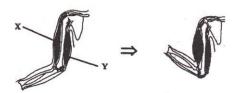








- 28. The method in which the stem of a plant is used to produce a new plant without detaching it from the plant is called
 - (1) Grafting
- (2) Layering
- (3) Cutting
- (4) All of these
- Look at the figure shown here. What is happening to the X and Y muscles during this movement? 29.



- (1) X is contracting, Y is contracting
- (2) X is contracting, Y is expanding
- (3) X is expanding, Y is contracting
- (4) X is expanding, Y is expanding
- **30.** The patches of green or brown colour developed on surface of bread which is present in a moist warm place, these patches are actually
- (1) Fungi
- (2) Algae
- (3) Small green plants (4) Hidden colour of bread

- 31. Shoulder joint
 - (i) is a ball and socket type of joint.
 - (ii) is a joint in which the rounded end of one bone fits into cavity of other bone.
 - (iii) allows movement in all directions.

Which of the above statements correct regarding shoulder joint?

- (1) (ii) & (iii) only
- (2) (i) & (iii) only
- (3) (i) & (ii) only
- (4) All the above

32. Lily has divided living things into two groups.

| Need air to live | Can live without air | | |
|-----------------------------------|-----------------------------------|--|--|
| birds, humans, snakes, crocodiles | trees, fishes, snails, earthworms | | |

What mistake she has done while dividing these two groups?

- (1) Only humans need air to live.
- (2) Only birds and humans need air to live.
- (3) Only trees and fishes can live without air.
- (4) The living things in both lists need air to live.

33. The below diagram is showing plant with



- (1) Parallel venation and tap root system
- (2) Parallel venation and fibrous root system
- (3) Reticulate venation and tap root system
- (4) Reticulate venation and fibrous root system
- **34.** To determine _____ of a place, sunset, sunrise, moonset moonrise, maximum and minimum temperature, humidity, rainfall, etc are recorded for on an average 25 years.
 - (1) weather
- (2) climate
- (3) both (1) and (2)
- (4) adaptation
- 35. Look at the picture given below. Which one of the following types of tooth does the picture represent?



- (1) Incisors
- (2) Canine
- (3) Lateral incisor
- (4) Molar

SECTION-D: MATHEMATICS

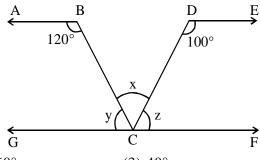
This section contains **25 Multiple Choice Questions.** Each question has four choices (1), (2), (3) and (4) out of which ONLY ONE is correct.

- **36.** What least digit replaces to * so that the number 653*47 is divisible by 11?
 - (1) 9

(2) 6

- (3) 2
- (4) 1
- 37. Define: a * b = 2(a + b) + 2a; where a,b are any two numbers. If 3 * x = 4, then x is (1) 2 (2) -4 (3) 6 (4) 8
- 38. The first class fare from Chandigarh to Jaipur is Rs. 557 and the sleeper class fare is Rs. 165. How much would a family of 4 members save by choosing to travel by sleeper class?
 - (1) Rs. 1200
- (2) Rs. 1568
- (3) Rs. 2420
- (4) Rs. 1634

39. AB \parallel GF and DE \parallel GF, then x is _____.



- $(1) 20^{\circ}$
- $(2) 60^{\circ}$
- $(3) 40^{\circ}$
- $(4) 80^{\circ}$



(1) $0.\overline{57}$

The value of $0.\overline{2} + 0.\overline{3} + 0.\overline{4} + 0.\overline{9} + 0.\overline{39}$ is

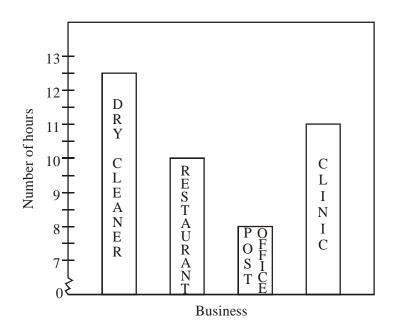
| | with whole number of | of tiles should be | | | | |
|-----|--|---|---|--|-----|--|
| | (1) 200 cm | | (2) 175 cm | | | |
| | (3) 125 cm | | (4) 350 cm | | | |
| 42. | Consider the following | ng statements | | | | |
| | A: The product of a | in integer and a ratio | nal number can never | be a natural number. | | |
| | B: The quotient of o | division of an integer | by a rational number | can never be an integer. | | |
| | Which of the statemen | nts given above is/are o | correct ? | | | |
| | (1) A only | | (2) B only | | | |
| | (3) Both A and B | | (4) Neither A no | or B | | |
| 43. | Two years ago, there | were 33 members in o | college union. Last year | r, the number of member quadrup | led | |
| | from the previous year and this year there are 30 more members. If 23 members went to leave the union next year. What would be the number of members in next year? | | | | | |
| | (1) 140 | (2) 145 | (3) 132 | (4) 139 | | |
| 44. | it melts and turns bac | ck into water ? | | of its volume will ice decrease when the state of the sta | en | |
| | $(1) \frac{1}{11}$ | (2) $\frac{1}{10}$ | (3) $\frac{1}{12}$ | (4) $\frac{1}{13}$ | | |
| 45. | The standard form of | 2347000000 is | · | | | |
| | (1) 2347×10^9 | | (2) 2.347×10^9 | | | |
| | (3) 23.47×10^9 | | $(4) \ 2.347 \times 10^{-9}$ | | | |
| 46. | containing the same | number of fruits of the ut. Find the greatest p | he same kind and has possible size of the par | rells each of these fruits in a packar found that 4 apples, 4 oranges a ckage, where size of the package | nd | |
| | (1) 10 | | (2) 8 | | | |
| | (3) 4 | | (4) None of the | se | | |
| | | | | | 9 | |

(2) $1\frac{20}{33}$ (3) $2\frac{1}{3}$ (4) $2\frac{13}{33}$

A room is $12\frac{1}{4}$ m long and 7 m wide. The maximum length of a square tile to fill the floor of the room

47. The graph shows the number of hours that four business were open on friday.

Based on the information in the graph, which statement could be true?

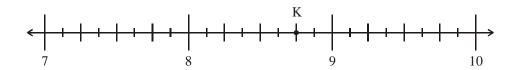


- (1) The dry cleaner opened at 6:15 A.M. and closed at 6:15 P.M.
- (2) The restaurant opened at 11:45 A.M. and closed at 9:30 P.M.
- (3) The post office opened at 9:00 A.M. and closed at 6:00 P.M.
- (4) The clinic opened at 7:30 A.M. and closed at 6:30 P.M.
- 48. How many meters of carpet 63 cm wide will be required to cover the floor of a room 14 m by 9 m?
 - (1) 200

(2) 210

(3) 220

- (4) 185
- 49. The location of point K is shown on the number line below.



What mixed number is presented by the location of point K?

- (1) $8\frac{3}{4}$
- (2) $8\frac{2}{5}$ (3) $8\frac{3}{5}$ (4) $8\frac{4}{5}$
- **50.** Find the ratio of the price of pencil to that of ball pen. If pencils cost Rs 16 per score and ball pens cost Rs 8.40 per dozen.
 - (1) 8:7

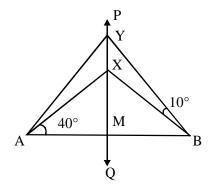
(2) 7:8

(3) 9:11

(4) 11:9



51.



In the figure above, \overrightarrow{PQ} is the perpendicular bisector of \overrightarrow{AB} . If $\angle XAB = 40^{\circ}$, $\angle XBY = 10^{\circ}$, then find $\angle AYX$.

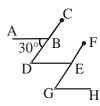
- (1) 30°
- (2) 40°
- $(3) 50^{\circ}$
- (4) 60°
- **52.** If $x^{y^z} = 2^8$, then find the maximum possible value of $x \times y \times z$ where x,y, z > 0.
 - (1) 16

- (2) 12
- (3) 256
- (4) 24

- **53.** Consider the following statements:
 - (i) If three sides of a triangle are equal to three sides of another triangle, then the triangles are congruent.
 - (ii) If three angles of a triangle are equal to three angles of another triangle respectively, then the two triangles are congruent.

Of these statements,

- (1) (i) is correct and (ii) is false.
- (2) Both (i) and (ii) are false.
- (3) Both (i) and (ii) are correct.
- (4) (i) is false and (ii) is correct.
- **54.** AB \parallel DE \parallel GH and DC \parallel GF, \angle ABD = 30° then \angle EGH = ?



- (1) 150°
- (2) 30°
- (3) 60°
- (4) Can't be determined

- **55.** Find the mean of: 8, 11, 6, 14, 17 and 13
 - (1) 10.5
- (2) 11.5
- (3) 12.5
- (4) 13.5
- 56. What is the largest even three-digit number that can be expressed as the product of three distinct primes ?
 - (1)998
- (2)996
- (3) 994
- (4) 992
- 57. In a school of 6,422 students, ratio of girls to boys 5:8, $\frac{1}{5}$ th of the girls and $\frac{1}{8}$ th of the boys took part in a school camp. Fraction of the total strength took part in the camp is
 - $(1) \frac{2}{13}$
- (2) $\frac{2}{7}$
- (3) $\frac{3}{11}$

 $(4) \frac{2}{9}$

58. If f(x) = 2x + a and g(x) = 4f(x) + 9. Then find the value of a if g(4) = 49

 $(1) \ 3$

(2) 2

(3) 5

(4) 7

59. This question is based on matching the columns. Each part has 4 choices (i), (ii), (iii) and (iv) out of which only one is correct.

Match the Column

| | Column-I | Column-II | | | |
|-----|---|-----------|--------------------------------------|--|--|
| (a) | $\frac{-3}{8} + 0 = 0 + \left(\frac{-3}{8}\right)$ $= \frac{-3}{8}$ | (i) | Existence of multiplicative identity | | |
| (b) | $4 + \frac{1}{3}$ is a rational number as 4 and $\frac{1}{3}$ are rational number | (ii) | Existence of multiplicative inverse | | |
| (c) | $\frac{-1}{9} \times 1 = 1 \times \frac{-1}{9} = \frac{-1}{9}$ | (iii) | Existence of additive identity | | |
| (d) | $\frac{4}{7} \times \frac{7}{4} = 1$ | (iv) | Closure property | | |

- (1) (a)-(ii), (b)-(iii), (c)-(iv), (d)-(i)
- (2) (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii)
- (3) (a)-(iii), (b)-(ii), (c)-(i), (d)-(iv)
- (4) (a)-(iv), (b)-(iii), (c)-(ii), (d)-(i)
- **60.** Simplify: $7x + 4 \{x^2 \div (5x \div 10)\} 3 \{2 x^3 \div (3x^2 \div x)\}$

$$(1) x^2 + 15x + 6$$

(2)
$$x^2 - 15x + 6$$

$$(3) x^2 + 15x - 6$$

$$(4) x^2 + 13x - 6$$

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 I stands in up side down position with my face pointing Northwards, in what direction will my right-hand point?

(1) East

- (2) West
- (3) North
- (4) South
- **62.** Ramakant walks Northwards. After a while, he turns to his right and a little further to his left. Finally, after walking a distance of one kilometre, he turns to his left again. In which direction is he moving now ?
 - (1) North
- (2) South
- (3) East
- (4) West



| 03. | | | | | | km straigh | | | | | |) KIII SUA | ight, then |
|------------|-------|--|---------|--------|---------|--|----------|-----------|----------------------|-----------|--------------|-------------|------------|
| | (1) | 8 km | | | | | | (2) 10 | km | | | | |
| | (3) | 12 km | | | | | | (4) No | ne of the | se | | | |
| 64. | If th | e follo | owing | word | s are a | arranged in | the alpl | habetica | l order, v | which w | ord will p | paper at t | he end? |
| | (1) | Olymp | oic | | | | | (2) Oly | ympia | | | | |
| | (3) | Oval | | | | | | (4) Ov | ulet | | | | |
| 65. | In a | certai | n code | e HAI | NGER | is written | as TDIM | ICG. H | ow is KU | RESH | be written | in that c | code? |
| | (1) | JRGQ | WJ | | | | | (2) LV | SFTI | | | | |
| | (3) I | MSTG | UJ | | | | | (4) MV | /TFUI | | | | |
| 66. | alter | native | s cont | tainin | g com | n which ar binations o form a me | f these | number | | | | _ | |
| | A | E | G | I | M | N | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | | | | | | | |
| | (1) | 5, 1, 3 | , 5, 4, | , 2 | | | | (2) 2, | 6, 4, 3, 5 | 5, 1 | | | |
| | (3) | 3, 4, 6 | , 1, 2, | , 5 | | | | (4) 2, | 4, 3, 6, 1 | , 5 | | | |
| 67. | If JO | OSEPH | I is co | oded a | ıs FKC | OALD, then | GEOR | GE will | be coded | l as: | | | |
| | (1) | HAKN | ICA | | (2) | CBKNCA | | (3) CA | ALNCA | | (4) CAK | NCA | |
| 68. | | | | | | eventh and | | • | | | op in a cl | ass of 31 | students. |
| | | _ | _ | | spectiv | e ranks fro | m the b | | | | | | |
| | . , | 20 th an 25 th an | | | | | | | th and 20^{l} | | | | |
| 60 | | | | | c: | | .i | | | | 11 1 | | |
| 69. | Cho | ose the | e aitei | nativo | e 11gur | e in which | the que | estion Ii | gure (X) | is embe | eaaea. | | |
| | | | | | | | | | | | | | |
| | | (X) | | (1) | (2) | (3) | (4) | | | | | | |
| 70. | | | | | | ritten in re | verse or | der ther | n which w | vill be t | he sixth le | etter to th | e right of |
| | | | etter f | from y | your ri | _ | | | | | | | |
| | (1) | | | | (2) | - | | (3) J | | 0 1 | (4) E | | |
| 71. | | | | rnativ | e whic | h closely 1 | esemble | es the w | ater- 1ma | ge of th | ne given o | ombinati | on: |
| | | ENMI TIMI | | | (2) | ҮТІМИ | 3 | (3) | TIMNE | 1 | (4) E | 1WITY | |
| | . / | | | | . / | | | . , – | | | . , | | |



72. Choose the alternative which is closely resembles the Mirror- image of the given combination : 395PERSON7

(1) **395PERSON7**

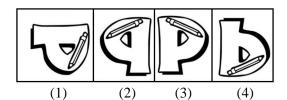
(5) 395PERTNOS

332 EKSONL (8)

- **395PERSON7** (4)
- 73. Find the number which will complete the series 3, 15, 35, 63, ?, 143
 - (1) 199
- (2)999
- (3)99
- (4) 298

74. Choose the Water Image of figure (X).





75. Which of the following diagrams indicates the best relation between Profit, Dividend and Bonus?

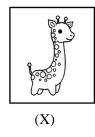


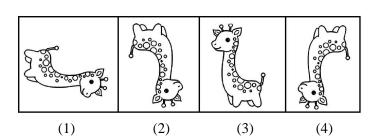






76. Choose the Mirror Image of figure (X) is





- 77. '20–10' means 200, '8 ÷ 4' means 12, '6 × 2' means 4 and '12 + 3' means 4, then $100 10 \times 1000 \div 1000 + 100 \times 10 = ?$
 - (1) 1090
- (2) 0

- (3) 1900
- (4) 20
- 78. What number will come in place of question mark in the following series?

160, 80, 40, 20, 10, ?

(1) 8

(2) 7

(3) 6

(4) 5



79. Four numbers are given out of which three are alike in some manner while one is different. Choose the one which is different from rest three.

(1) 4

(2) 8

(3) 16

(4) 36

80. What will be the value of given expression :

 $120 \div 10 + 19 \times 2 - 44 + 13$

(1) 13

(2) 19

(3) 20

(4) 22



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 IPh0-2016 **SWITZERLAND**



Silver Medal DIVYANSH GARG (Classroom)

International Biology Olympiad



27th International **Biology Olympiad** IBO-2016 HANOI, VIETNAM



LAJJA BEN PATEL



Silver Medal VIDUSHI VARSHNEY

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**



IB0

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 **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**

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 **Students**

NTSE 2016 (STAGE-2)



APTITUDE IN MATHEMATICS

NMTC

274 Selections in NMTC (Prelim)

17 Selections in NMTC (Final)

NMTC National Mathematics Talent

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



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 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

TECHNICHE 2015

2 Students (1 Team) **KHUSHI TIBAREWAL STUTI SHAH**

won Junior Squad in Techniche

Conducted by IIT Guwahati

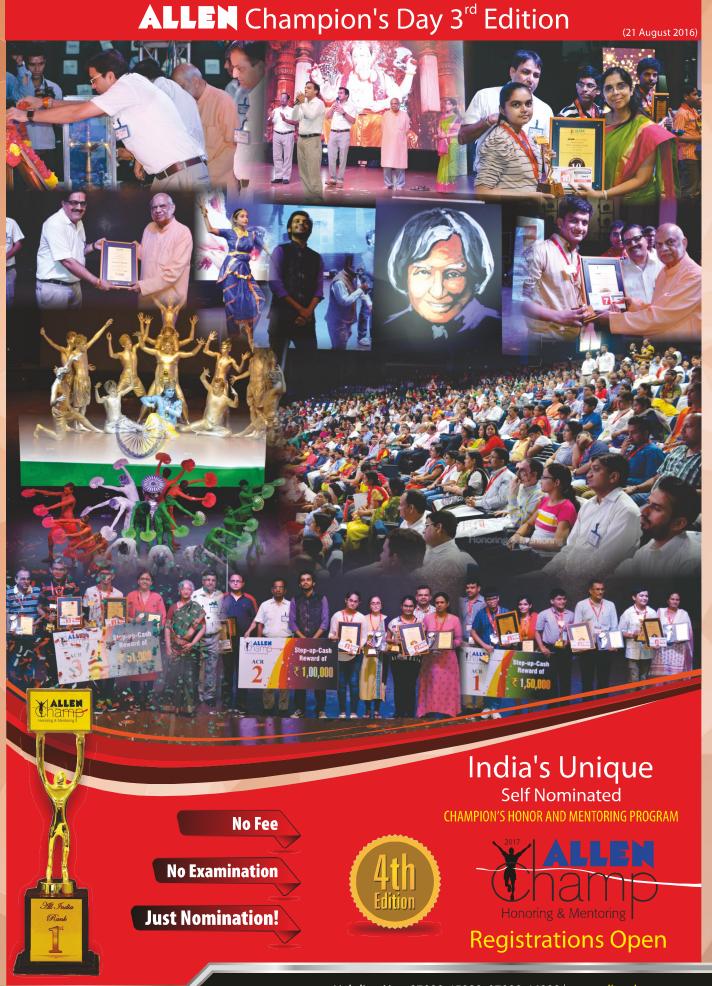


TECHKRITI

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

Conducted by IIT Kanpur





Answer Key



Class-7th (VII)

Held on: 09 October 2016

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

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

| Q. No. | Ans. | |
|--------|------|---|
| 41 | 2 | |
| 42 | 4 | |
| 43 | 4 | 8 |
| 44 | 3 | |
| 45 | 2 | |
| 46 | 2 | |
| 47 | 4 | |
| 48 | 1 | |
| 49 | 1 | |
| 50 | 1 | |
| 51 | 2 | |
| 52 | 3 | 5 |
| 53 | 1 | |
| 54 | 2 | |
| 55 | 2 | |
| 56 | 3 | |
| 57 | 1 | |
| 58 | 2 | |
| 59 | 2 | |
| 60 | 3 | |

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

