Tallentex Form No. | 4 | | | | | | |

Answer Sheet No. | T | 4 | | | | | |

**TALLENTEX 2016 : (04, October 2015)**

PAPER CODE

**A**

**TALLENTEX 2016**
**ALLEN'S** Talent Encouragement Exam
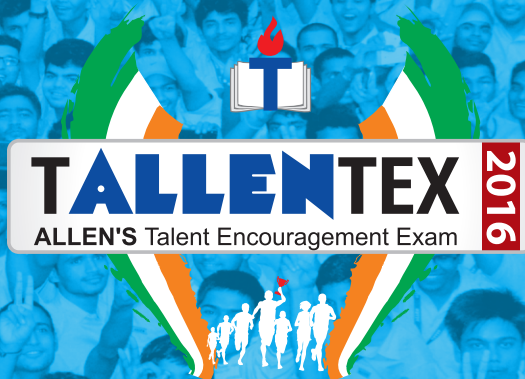
# CLASS - 5th (V)

**Duration: 2 Hrs.** | **Maximum Marks : 320**

**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 Form No. & Answer Sheet No. in the space provided on the top of this page.
3. Fill your **PAPER CODE** in space provided (Point No. 6) of optical response sheet (ORS).
4. 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.
5. After breaking the Question Paper seal, check the following:
   a. There are **16 pages** in the booklet containing question no. 1 to 80 under 2 Parts i.e. Part-I & Part-II.
   b. Part-I contains total 20 questions of IQ (Mental Ability).
   c. Part-II contains total 60 questions under 4 sections, which are Physics, Chemistry, Biology & Mathematics.
6. Think wisely before darkening bubble as there is negative marking for wrong answer. Answer once marked by pen cannot be cancelled.
7. 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.
8. If you are found involved in cheating or disturbing others, then your ORS will be cancelled.
9. Do not put any stain on ORS and hand it over back properly to the invigilator.
10. You can take along the question paper after the test is over.

# PART-I

## IQ (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.

**1.** In which direction is Mini with respect to Mickey, if all are facing south ?



Mickey    Tom    Donald

Tweety    Mini    Jerry

  (1) North               (2) South-West

  (3) South-East       (4) None of these

**2.** If the letters in the UNDERTAKING are rearranged in the alphabetical order, which one will be in the middle in order after the rerrangement ?

  (1) G           (2) I           (3) K           (4) N

**3.** Renu walks 9 km towards East and then 12 km towards the South. Which direction she will take to reach starting point ?

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

**4.** Find the two words, one from each group, that together make a new, meaningful word. The word from the first group always comes first.

$$\boxed{\overset{P}{TAIL}\;\overset{Q}{ROSE}\;\overset{R}{HEAD}}\quad\boxed{\overset{1}{JUNIOR}\;\overset{2}{MASTER}\;\overset{3}{BREAK}}$$

  (1) P1          (2) R2          (3) Q3          (4) R1

**5.** Find the missing term (?).
3, 12, 27, 48, 75, 108, ?

  (1) 147         (2) 162         (3) 183         (4) 192

**6.** You go North, turn right, then right again and then go to the left. Which direction are you facing now ?

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

**7.** Which letter will be the eighth to the right of the third letter from left in the second half of the English alphabet ?

  (1) V         (2) W       (3) X       (4) Y

**8.** Find the missing term (?).

DEF, HIJ, MNO, ?

(1) STU          (2) RST          (3) RTV          (4) TUV

**9.** Find the missing term (?).

2, 3, 5, 7, 11, 13, ?

(1) 17          (2) 15          (3) 21          (4) 23

**10.** Roshan is taller than Hardik, who is shorter than Sushil. Niza is taller than Harry but shorter than Hardik, Sushil is shorter than Roshan. Who is the tallest ?

(1) Roshan          (2) Sushil          (3) Hardik          (4) Harry

**11.** Choose from the four diagrams marked (1), (2), (3) and (4), the one that represent the best relationship among the three given classes in the question.

Days, Months, Years

(1)          (2)          (3)          (4)
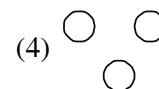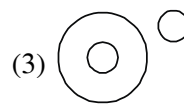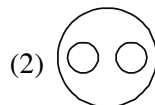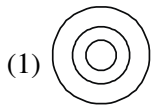
**12.** What are the numbers that lie inside exactly in two figures ?
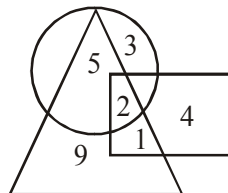
(1) 3, 1          (2) 5, 1          (3) 5, 9          (4) 9, 1

**13.** If O = 16, FOR = 42 , then what is FRONT equal to ?

(1) 61          (2) 65          (3) 73          (4) 78

**14.** Irfan is 4th from the right end. Asif is 8th from left. Total numbers of student are 18. How many students are between Irfan and Asif ?

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

**15.** Choose the alternative which most closely resembles the mirror image of the given combination.

2 4 7 5 9 6

(1) 6 9 5 7 4 2          (2) ௧ௗ௨ௗ೭ௗ          (3) ௬ௗ௦௨ௗௗ          (4) ௨ௗ௦ௗௗ

**16.** Find the odd one out.
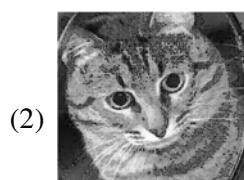
(1)          (2)          (3)          (4)

**17.** Choose the alternative which shows the correct water-image of that word.

POLEMIC

(1) ɔIWƎ˥Oԁ      (2) POLƎWIC      (3) ԀO˥ƎWIɔ      (4) ԀO˥ƎWIɔ

**18.** Choose the one which is different from the others.

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

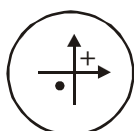**19.** Choose the alternative which is closely resembles the mirror-image of the given combination.
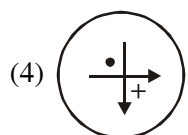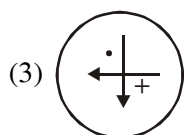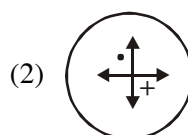


(X)



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

**20.** Choose the water image of figure (X)



(X)

(1)           (2) 

(3)           (4)
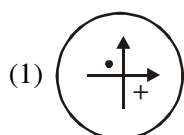
# PART-II

## 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.
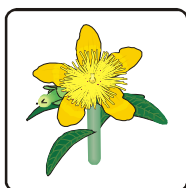
**21.** Arrange the following in the decreasing order of their mass.
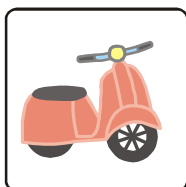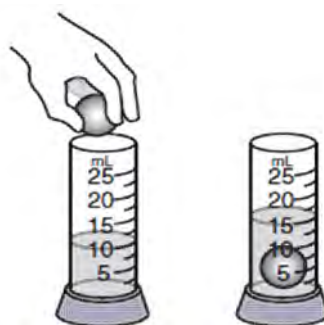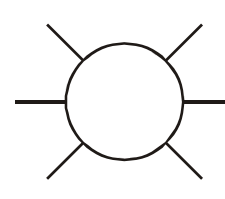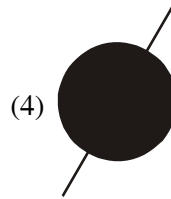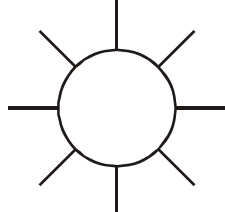


(a)



(b)



(c)



(d)

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

**22.** A student added a small ball to a graduated cylinder containing 10 millilitres of water as shown.
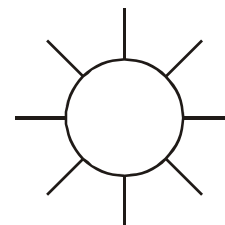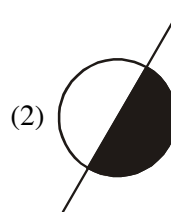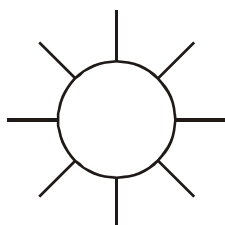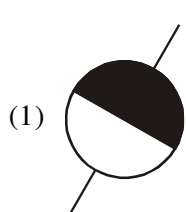


What is the volume of the ball ?

(1) 5 mL      (2) 10 mL      (3) 15 mL      (4) 20 mL

**23.** In which drawing is the SHADED hemisphere the one in which summer is occurring ?



(1)



(2)



(3)



(4)
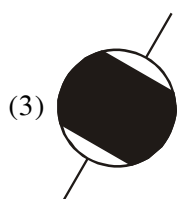
**24.** Which one of the following is matched incorrectly ?

| | Column I | | Column II |
|---|---|---|---|
| (A) |  | (p) | wedge |
| (B) |  | (q) | screw |
| (C) |  | (r ) | inclined plane |
| (D) |  | (s) | pulley |

(1) A-p      (2) B-q      (3) C-r      (4) D-s

**25.** Which of the following is a renewable energy source ?



(1) Sun      (2) Moon      (3) Coal      (4) Volcano
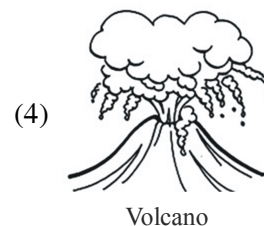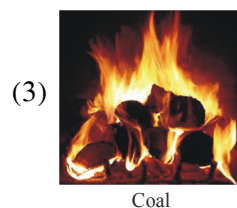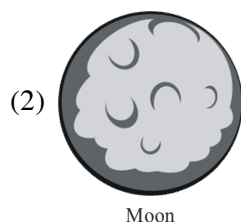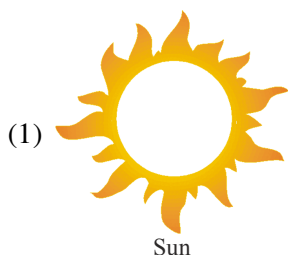
**26.** Students collected some rainwater in a container during a storm. Which tool would best help the students to measure the volume of water they collected ?



(1) Pan balance

(2) Thermometer

(3) Metric ruler

(4) Graduated cylinder
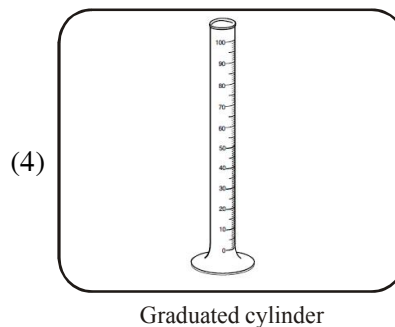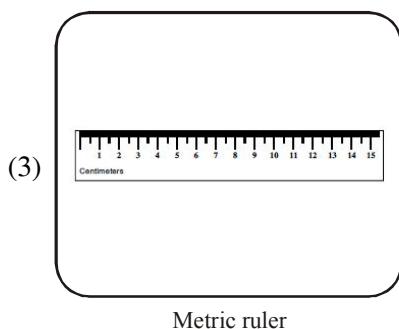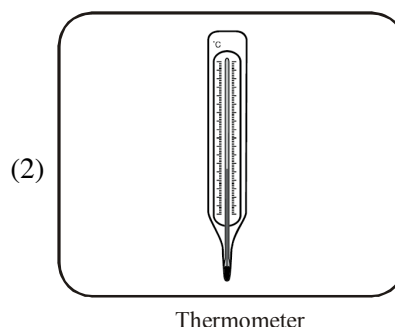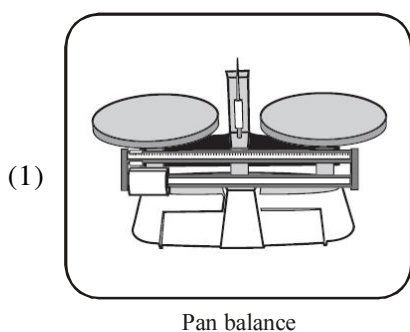
**27.** In the figure shown below, a man tries to move the car by pushing it hard but fails to do so. He feels very tired.



In doing so,

(1) he has done a lot of work as he feels very tired.

(2) he has done no work as the car does not move.

(3) he has done very little work because he is not able to move car.

(4) he has done work because he has applied force.

**28.** Arrange the planets in increasing order of their distance from the Sun.

(a) Mercury      (b) Mars      (c) Uranus      (d) Saturn

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

**29.** Which factor makes Earth different from all the other planets in the solar system in its ability to support life ?

(1) The Earth is exposed to rays from the sun.

(2) The Earth has only one moon that orbits around it.

(3) The Earth rotates on its own axis.

(4) The Earth has a breathable atmosphere.

**30.** The flashlight shown below has no batteries. It is operated by squeezing and letting go of the handle. Inside the body of the flashlight are gears, which are shown below. Which sequence best identifies the energy transfers that take place within the flashlight to produce light ?
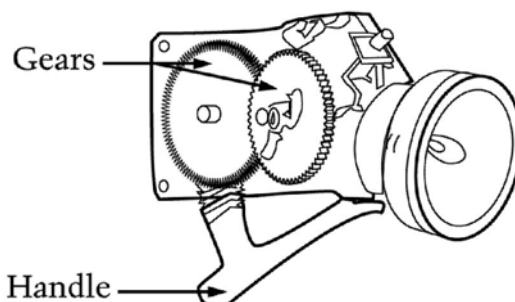


(1) Mechanical energy $\rightarrow$ Light energy $\rightarrow$ Electrical energy
(2) Mechanical energy $\rightarrow$ Electrical energy $\rightarrow$ Light energy
(3) Chemical energy $\rightarrow$ Light energy $\rightarrow$ Electrical energy
(4) Chemical energy $\rightarrow$ Electrical energy $\rightarrow$ Light energy

**31.** The following figures given below shows which natural calamities ?



A                B              C              D

(1) (A)-volcanic eruption; (B)-flood; (C)-drought; (D)-landslide

(2) (A)-flood; (B)-volcanic eruption; (C)-drought; (D)-landslide

(3) (A)-volcanic eruption; (B)-flood; (C)-landslide; (D)-drought

(4) (A)-volcanic eruption; (B)-drought; (C)-flood; (D)-landslide

**32.** Which of the following tool will accurately measure the time taken by an athlete to complete a 100 m race?

(1) 

(2) 

(3) 

(4) 
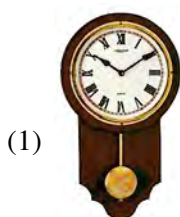
## SECTION-B : CHEMISTRY

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

**33.** The process by which liquid changes into solid form is called

(1) Boiling         (2) Melting         (3) Freezing         (4) Both (2) and (3)

**34.** What is the basic unit of molecules from which they made up of ?

(1) Gases         (2) Liquids         (3) Atoms         (4) Solids

**35.** Which of the following will describe the desert climate ?

(1) Hot and humid                 (2) Hot and dry

(3) Hot and wet                 (4) Dry and humid

**36.** The diagram below shows a rock sample and an identification key.
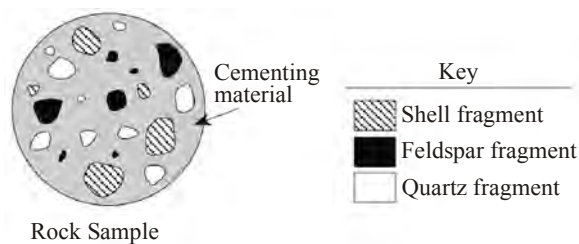


This rock sample would be best classified as

(1) volcanic          (2) metamorphic          (3) sedimentary          (4) igneous

**37.** Ice forms in the cracks of a basalt rock formation and breaks some rock into smaller pieces. The diagram below shows part of the rock cycle.
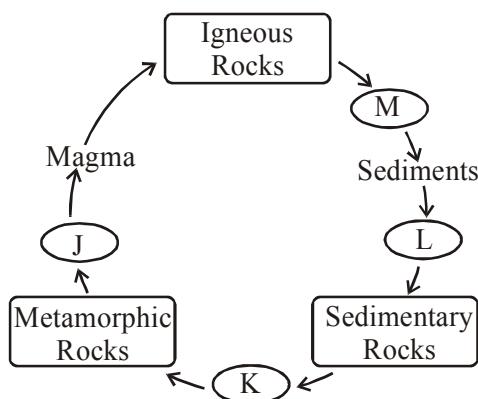


At which point in the cycle shown above would the process of breaking down rocks occur ?

(1) J          (2) K          (3) L          (4) M

**38.** A metal tray was used to cover a beaker of boiled water as shown in the diagram. The beaker and metal tray were then removed from the tripod stand and left on the table. After two minutes, which of the following can be observed ?
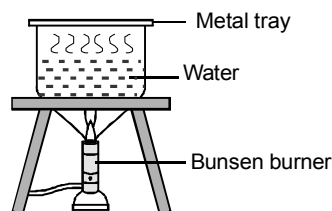
**39.** Study the given flowchart which is based on states of matter.

Which of the following is correct regarding this ?

| | X | Y | Z |
|---|---|---|---|
| (1) | Rubber ball | Ketchup | Water vapour |
| (2) | Water vapour | Rubber ball | Ketchup |
| (3) | Water vapour | Ketchup | Rubber ball |
| (4) | Ketchup | Water vapour | Rubber ball |
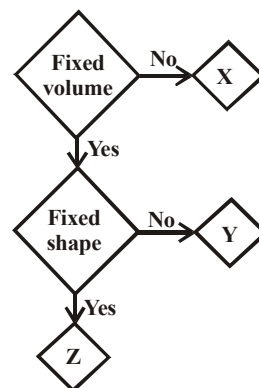


**40.** Tiny Water droplets on grass and rocks during cold night is called _____.

(1) dew 　　　　　　　　　　　(2) snow

(3) rain 　　　　　　　　　　　(4) smog

**41.** The diagram below shows three stages in the formation of a beach.



Waves on cliff 　　Cliff eroding 　　Beach developing
A 　　　　　　　B 　　　　　　　C
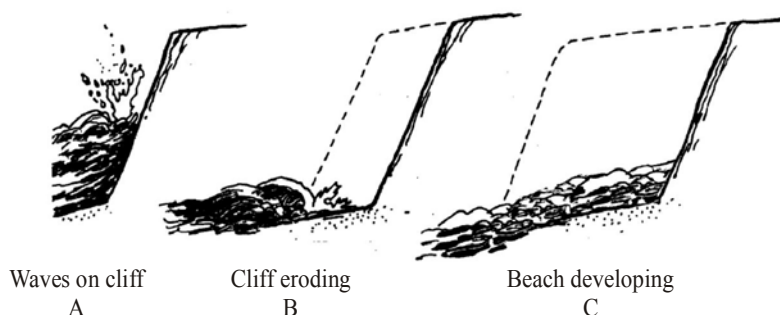
Which process is mostly responsible for the breaking down of the rock cliff into sand-sized sediment ?

(1) Weathering 　　　　　　　(2) Folding

(3) Faulting 　　　　　　　　(4) Precipitation

**42.** Kerosene floats on water because

(1) kerosene has more density than water.

(2) kerosene has less energy.

(3) densities of water and kerosene are equal.

(4) water has more density than kerosene.

**43.** Which of the following processes increases the amount of water vapour in the atmosphere?

(1) Evaporation

(2) Precipitation

(3) Runoff

(4) Condensation

## 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.

**44.** Plants take carbon dioxide from the atmosphere mainly through their

(1) roots       (2) stems       (3) flowers       (4) leaves

**45.** Which of the following food sources provide vitamins and minerals to body ?

(1) 
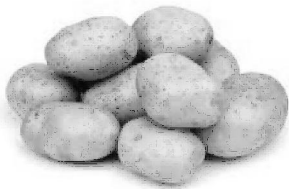
(2) 

(3) 

(4) Both (2) and (3)

**46.** In humans, deficiency of which of the following vitamins show the symptoms given below?

**The bones become softened and bend.**

(1) Vitamin C                    (2) Vitamin D

(3) Vitamin A                    (4) Vitamin B1

**47.** Kavita stored following food items in her kitchen cupboard. After two weeks, she noticed green leaves growing out from one of them. Which of the following could it be?

(1) 

Ladyfinger

(2) 

Tomato

(3) 

Onion

(4) 

Cucumber

**48.** The given figure shows the classification of plants according to their characteristics.
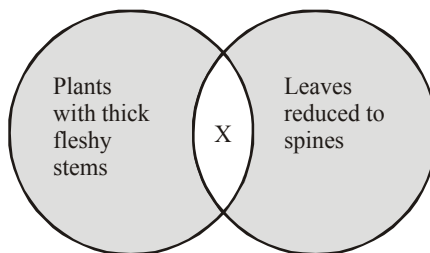


Which plant does 'X' represent?

(1) Pine tree

(2) Prickly pear

(3) Coconut tree

(4) Fir tree

**49.** Life cycle of cockroach is shown in the given figure, identify the stage labelled as B.



Life cycle of a cockroach
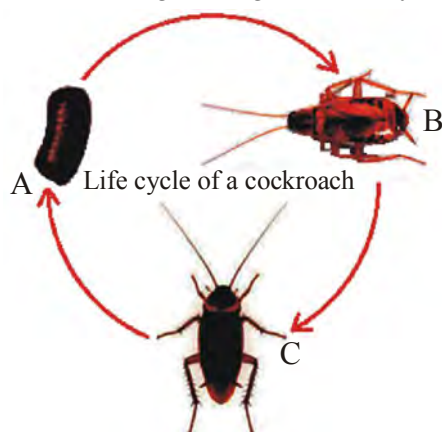
(1) Adult

(2) Pupa

(3) Nymph

(4) Caterpillar

**50.** The diagram below shows living things in a pond.
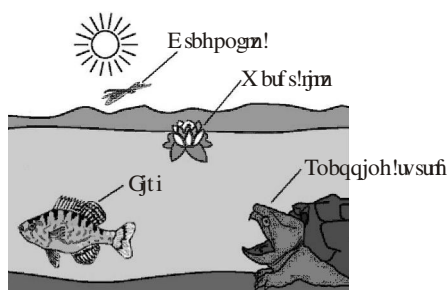


Which living thing changes the light energy of sun into chemical energy ?

(1) Dragonfly

(2) Fish

(3) Snapping turtle

(4) Water lily

**51.** The diagrams W, X, Y and Z given below show the feet of four birds a, b, c and d.
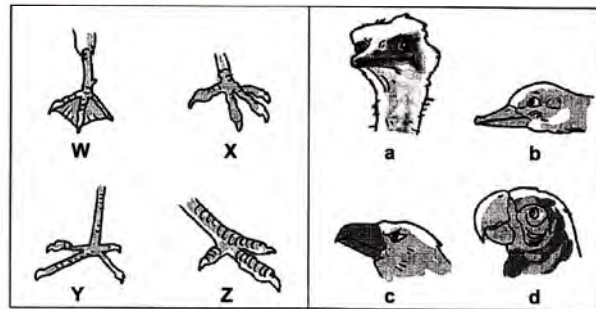


Which of the following statements is correct regarding them ?

(1) Foot W, used for swimming, belongs to Bird d.

(2) Foot X, used for catching prey, belongs to Bird c.

(3) Foot Y, used for tearing food, belongs to Bird d.

(4) Foot Z, used for swimming, belongs to Bird b.

**52.** Which of the following animals live in polar regions ?

(1) Seal                    (2) Giraffe

(3) Bat                     (4) Monkey

**53.** Plant that reproduces through its spores is

(1) Fern            (2) Mango            (3) Carrot            (4) Potato

**54.** Which of them could help a farmer to increase crop yield ?

(i) Excessive water              (ii) Manure

(iii) Weeds                      (iv) Fertilizer

(1) (i) and (ii)          (2) (ii) and (iii)          (3) (ii) and (iv)          (4) All of these

**55.** All of the following is true regarding the trees found in cold regions except

(1) They are  generally tall and straight

(2) They have needle shaped leaves

(3) They produce cones instead of flowers

(4) They have breathing roots that come out of the soil

**TALLENTEX 2016**
ALLEN'S Talent Encouragement Exam

## 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.

**56.** Numeral for seventy crore one thousand is

(1) 701000  (2) 70001000  (3) 700001000  (4) 7001000

**57.** A number is divisible by 4

(1) If its last digit is divisible by 4

(2) If its last two digits are divisible by 4

(3) If its last digit is 5 or 0

(4) none of these

**58.** Which model is shaded to show a fraction equivalent to $\dfrac{3}{6}$ ?
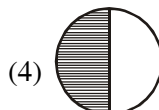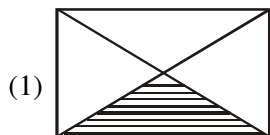


**59.** Arrange the following numbers in descending order.

35,40,872; 35,27,840; 87,20,354; 8,75,32,123

(1) 35,27,840 ; 87,20,354 ; 8,75,32,123 ; 35,40,872

(2) 35,40,872 ; 35,27,840 ; 8,75,32,123 ; 87,20,354

(3) 8,75,32,123 ; 87,20,354 ; 35,40,872 ; 35,27,840

(4) 8,75,32,123 ; 87,20,354; 35,27,840 ; 35,40,872

**60.** Convert 6 kg 25 g into gram

(1) 325 g  (2) 625 g  (3) 6025 g  (4) 6532 g

**61.** A number is less than 443 and greater than 397. The sum of the ones digit and the tens digit in the number is 5. The ones digit is 3. What is the number.

(1) 423  (2) 432  (3) 323  (4) 322

**62.** Which type of triangle has all sides equal ?

(1) Equilateral     (2) Scalene     (3) Isosceles     (4) None of these

**63.** The H.C.F. of two numbers is 2 and their L.C.M. is 28. If one of the numbers is 14, find the other number.

(1) 2     (2) 4     (3) 6     (4) 8

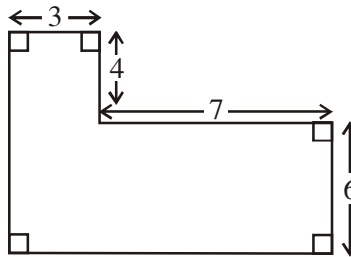**64.** The area of the figure in square units is

(1) 64     (2) 46     (3) 32     (4) 36

**65.** The largest three digit number formed by 8, 5, 9 is

(1) 958     (2) 859     (3) 985     (4) 589

**66.** Which of the following is a perfect number ?

(1) 2     (2) 4     (3) 14     (4) 28

**67.** If $\angle 1$ measure 125°, then $\angle 2$ on measure
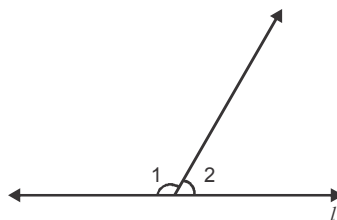
(1) 45°     (2) 55°     (3) 65°     (4) 75°

**68.** This figure is known as

(1) Cube

(2) Rectangle

(3) Cuboid

(4) Square

**69.** Tanny runs 3 times around a square field each of whose sides measures 15 m. How much distance does she run?

(1) 120 m     (2) 135 m     (3) 160 m     (4) 180 m

**70.** Convert 760 c.m. into metre

(1) 7.6 m     (2) 7.06 m     (3) 7 m     (4) 760 m
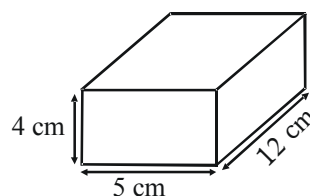
**71.** The sum of all the angles of a parallelogram is

(1) 180° (2) 270° (3) 360° (4) 540°

**72.** Find the L.C.M. of 12 and 18.

(1) 8 (2) 12 (3) 36 (4) 24

**73.** Shaloo runs along the sides of a square garden which is 45 m long. If she covers 15 m in one step, how many steps will she take to run once round the garden?

(1) 12 (2) 10 (3) 15 (4) 8

**74.** Which of the following statements can be true?

(1) A is the largest of all the other numbers.

(2) D is the smallest of all the other numbers.

(3) A is the smallest of all the other numbers.

(4) C is the largest of all the other numbers.

| 2709 | A |
|------|---|
| 2799 | B |
| 2750 | C |
| 2790 | D |

**75.** Which of the following has a definite length?

(1) a line (2) a line segment (3) a ray (4) a plane

**76.** The supplement of which angle is 85°

(1) 80° (2) 90° (3) 95° (4) 105°

**77.** On a wall of dimensions 10.5 m long and 8.5 m wide, a square shaped wall poster is stuck at the center whose measure is 2.5 m. If the remaining part of the wall to be painted with pink colour costing Rs. 12 per sq m, the amount to be spent is

(1) Rs. 89.25 (2) Rs. 996 (3) Rs. 830 (4) Rs. 12

**78.** From 10 million take away 28th multiple of 5798

(1) 9837656 (2) 9597656 (3) 9857656 (4) 9897686

**79.** A polygon that have no portions of their diagonals in their exteriors are called

(1) Convex (2) Concave (3) Both (4) None of these

**80.** In the adjoining figure, ABCD is a square of side 14 cm and two semicircles are drawn inside of it with AB and CD as diameters. Find the area of the shaded region in the figure.
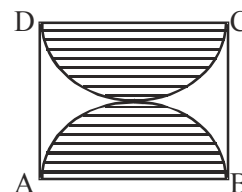
(1) 144 m² (2) 164 m²

(3) 184 m² (4) 154 m²

**SPACE FOR ROUGH WORK**

**ALLEN** Champion's Day 2015 (16 August 2015)

Step-up-Cash Reward of
ACR-1 ₹ 1,50,000

Step-up-Cash Reward of
ACR-2 ₹ 1,00,000

Step-up-Cash Reward of
ACR-3 ₹ 51,000

**India's Unique**
Self Nominated
**CHAMPION'S HONOR AND MENTORING PROGRAM**

No Fee

No Examination

Just Nomination!

3rd Edition

2016 **ALLEN Champ**
Honoring & Mentoring

**For Class V to XI**
**Registration Now Open**

All India Rank 1st

# Answer Key

**TALLENTEX 2016** — ALLEN'S Talent Encouragement Exam

## Class- 5th (V)

**Held on : 04 October 2015**

| Q.No. | Ans | Q.No. | Ans | Q.No. | Ans | Q.No. | Ans |
|-------|-----|-------|-----|-------|-----|-------|-----|
| 1 | 3 | 21 | 2 | 41 | 1 | 61 | 1 |
| 2 | 3 | 22 | 1 | 42 | 4 | 62 | 1 |
| 3 | 1 | 23 | 1 | 43 | 1 | 63 | 2 |
| 4 | 2 | 24 | 4 | 44 | 4 | 64 | 2 |
| 5 | 1 | 25 | 1 | 45 | 4 | 65 | 3 |
| 6 | 3 | 26 | 4 | 46 | 2 | 66 | 4 |
| 7 | 3 | 27 | 2 | 47 | 3 | 67 | 2 |
| 8 | 1 | 28 | 1 | 48 | 2 | 68 | 3 |
| 9 | 1 | 29 | 4 | 49 | 3 | 69 | 4 |
| 10 | 1 | 30 | 2 | 50 | 4 | 70 | 1 |
| 11 | 1 | 31 | 1 | 51 | 2 | 71 | 3 |
| 12 | 2 | 32 | 3 | 52 | 1 | 72 | 3 |
| 13 | 4 | 33 | 3 | 53 | 1 | 73 | 1 |
| 14 | 2 | 34 | 3 | 54 | 3 | 74 | 3 |
| 15 | 4 | 35 | 2 | 55 | 4 | 75 | 2 |
| 16 | 1 | 36 | 3 | 56 | 3 | 76 | 3 |
| 17 | 3 | 37 | 4 | 57 | 2 | 77 | 2 |
| 18 | 2 | 38 | 2 | 58 | 4 | 78 | 1 |
| 19 | 1 | 39 | 3 | 59 | 3 | 79 | 1 |
| 20 | 4 | 40 | 1 | 60 | 3 | 80 | B |

**ALLEN CAREER INSTITUTE**
path to success
KOTA (RAJASTHAN)

www.tallentex.com