

Maximum Marks: 80



Time allowed: 2 HOURS

LEAD TALENT SEARCH EXAM - LTSE 2017

A Project by LEAD Trust, Bangalore.

ENTRANCE TEST FOR 10TH STANDARD STUDENTS FOR 2 YEAR RESIDENTIAL PU COACHING AT PARTNER INSTITUTIONS FOR COMPETITIVE LAW / CA / UPSC EXAMS

Selected students qualify for freeships/scholarships for admission into Partner Colleges in Karnataka. The students will be provided extensive coaching for CLAT 2019 (Law) / CPT (Commerce) / IAS / KAS entrance exams.

NAME OF THE STUDENT :

NAME OF THE SCHOOL :

REGISTRATION NUMBER (6-digit code number in OMR)

TELEPHONE NUMBER (as mentioned in the application form):

EMAIL ID (as mentioned in the application form) :

INSTRUCTIONS TO THE CANDIDATE:

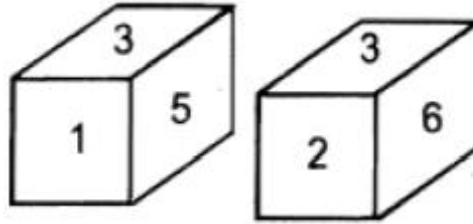
- This question paper consists of 4 sections.**
 - Section I Logical Reasoning – 20 questions
 - Section II General Knowledge – 20 questions
 - Section III English – 20 questions
 - Section IV Numerical Ability – 20 questions
- Each question contains four alternatives out of which only ONE is correct.
- Indicate your answers **ONLY** on the OMR sheet.
- NEGATIVE MARKING:** Each correct answer will be awarded one mark, $\frac{1}{4}$ marks will be **deducted** for each incorrect answer. More than one answer marked against a question will be deemed as an incorrect response and will be negatively marked.
- Use of Calculators, Smartphones and Electronic devices is NOT allowed.

IMPORTANT	
PROCEDURE OF FILLING UP THE ANSWERS IN OMR SHEET	
Wrong Filling	Right Filling
A <input checked="" type="checkbox"/> C <input type="checkbox"/> D Tick mark	A <input type="checkbox"/> C <input type="checkbox"/> D Fully darken with HB Pencil
A <input checked="" type="checkbox"/> C <input type="checkbox"/> D Cross mark	A <input type="checkbox"/> C <input type="checkbox"/> D Fully darken with HB Pencil
A <input type="checkbox"/> C <input type="checkbox"/> D Half filled or semi dark	A <input type="checkbox"/> C <input type="checkbox"/> D Fully darken with HB Pencil
A <input type="checkbox"/> C <input type="checkbox"/> D Light filled	A <input type="checkbox"/> C <input type="checkbox"/> D Fully darken with HB Pencil

Section I: Logical Reasoning

1. If Jan 8th 2017 is a Sunday, then what day of the week was it on Jan 8th 2016?
(A) Thursday (B) Sunday
(C) Saturday (D) Friday
2. Two positions of a dice are shown. Which number will appear on the face opposite the one having 5?

- (A) 1 (B) 2
(C) 6 (D) 4



3. If Ayesha says, "The father of Hussain is the only son of my father", then how is Ayesha related to Hussain?
(A) Daughter (B) Sister
(C) Mother (D) None of the above
4. Ahmed is heavier than Amjad but not as much as Hussain. Amjad is heavier than Faisal. Sajid is heavier than Ahmed, but lighter than Shuaib. Who is the lightest?
(A) Hussain (B) Shuaib
(C) Faisal (D) Amjad
5. What will come in place of the question mark "?"
B2S, F6P, J14M, ?
(A) N30I (B) M24I
(C) N30J (D) P24J
6. What day comes three days after the day which comes two days after the day which comes immediately after the day which comes two days after Monday?
(A) Tuesday (B) Wednesday
(C) Monday (D) Sunday
7. A factory was cutting rolls of cloth into 1 metre lengths, from a 200 metre roll. How long would it take for the machine to cut the roll if each cut took 4 seconds?
(A) 13.34 mins (B) 13.27 mins
(C) 14 mins (D) 13.67 mins

8. Statement: Some books are toys. No toy is red.

Conclusions:

I) Some books are red.

II) Some books are not red.

Based on the above statement, which conclusion follows?

(A) Only conclusion I is true

(B) Only conclusion II is true

(C) Both I and II are true

(D) Neither I nor II are true

9. If $3 \times 6 = 18$; $4 \times 7 = 22$; $9 \times 1 = 20$, then $5 \times 2 = ?$. Find the value of ? from the following

(A) 7

(B) 10

(C) 14

(D) 3

10. Nitin was counting down from 32. Sumit was counting upwards the numbers starting from 1 and he was calling out only the odd numbers. What common number will they call out at the same time if they were calling out at the same speed?

(A) 19

(B) 21

(C) 22

(D) They will not call out the same number

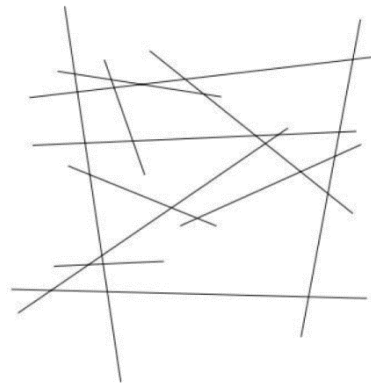
11. How many lines are there in the given picture?

(A) 12

(B) 24

(C) 11

(D) 13



12. Each entry pass holder can take up to three persons with him/her to the exhibition. In all, 243 passes were sold yesterday. How many visitors saw the exhibition yesterday?

(A) 729

(B) 243

(C) 500

(D) Data insufficient

13. Complete the series: 6, 11, 18, 27, 38, ____

(A) 61

(B) 51

(C) 52

(D) 62

14. How many times in a day, do the minute and hour hands of a clock coincide?

(A) 11

(B) 12

(C) 22

(D) 24

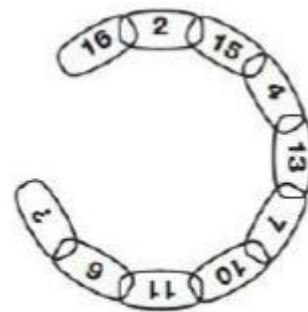
15. 3 boxes are in a room. You know that one contains only apples, one contains only oranges, and one contains both apples and oranges. But you don't know the contents of the specific boxes. The boxes are labeled, "APPLES", "ORANGES" and "APPLES AND ORANGES". Each box has the wrong label on it. You must identify the contents of each box by picking one piece of fruit from only one box. Which box will you pick first to label the boxes correctly?
- (A) APPLES (B) ORANGES
(C) APPLES AND ORANGES (D) None of the above

16. Four people witnessed a theft. Each gave a different description of the thief. Which description is probably right?
- (A) He was average height, thin, and middle-aged.
(B) He was tall, thin, and middle-aged.
(C) He was tall, thin, and young.
(D) He was tall, of average weight, and middle-aged.

17. There are 40 pens in a box. Each pen is either a ballpoint pen or a fountain pen, and each pen is either red or blue. 15 pens are red, and 20 pens are ballpoint pens. If there are 9 blue fountain pens, how many red ballpoint pens are there?
- (A) 4 (B) 8
(C) 11 (D) Cannot tell

18. Exercise is to Gym, as Eating is to
- (A) Food (B) Dieting
(C) Fitness (D) Restaurant

19. Find the missing number represented by the question mark?
- (A) 5
(B) 8
(C) 15
(D) 16



20. Find the missing combination of operators in the below equation
- $$1 \dots 2 \dots 3 \dots 4 = 6$$
- (A) +, +, -
(B) +, -, +
(C) -, -, +
(D) -, +, +

Section II: General Knowledge

21. Which country does the equator pass through?
(A) Zimbabwe
(B) Maldives
(C) Ethiopia
(D) Haiti
22. 100 degree centigrade is equal to _____ degree Fahrenheit.
(A) 212
(B) 211
(C) 210
(D) 200
23. Who appoints the Chief Minister of a state in India?
(A) Prime Minister of India
(B) Governor of the state
(C) President of India
(D) None of the above
24. What is the longest bone in the human body?
(A) Fibula
(B) Ulna
(C) Femur
(D) Tibia
25. India is the _____ largest country in the world.
(A) Eleventh
(B) Tenth
(C) Seventh
(D) Eighth
26. With how many countries does India share borders?
(A) Seven
(B) Six
(C) Four
(D) Five
27. What does the abbreviation "R.S.V.P" stand for?
(A) Read it properly
(B) Respond if you please
(C) Return sum when possible
(D) None of the above

28. The Election Commissioner can be removed by
(A) Prime Minister of India
(B) President of India
(C) Vice President of India
(D) The parliament
29. Who has won the 2016 Laureus World Sportsman of the Year award?
(A) Lewis Hamilton
(B) Usain Bolt
(C) Novak Djokovic
(D) Lionel Messi
30. Agha Khan cup is awarded to which sport?
(A) Asian Hockey
(B) National Hockey in India
(C) National Badminton in India
(D) Asian Badminton
31. In 1924, the first winter Olympics was held in
(A) Greece
(B) Italy
(C) France
(D) Austria
32. Who invented Cinematography?
(A) Graham Bell
(B) Edison
(C) Zeiss
(D) Faraday
33. In which year was the aeroplane invented?
(A) 1896
(B) 1929
(C) 1903
(D) 1921
34. Who said that there was no slavery in India?
(A) Mahatma Gandhi
(B) Heiun T'sang
(C) Megasthenes
(D) Nehru
35. Whether a Bill is a Money Bill or not, is decided by the
(A) Speaker of the Lok Sabha
(B) Chairman of the Rajya Sabha
(C) Finance Minister
(D) Prime Minister

36. When is the Earth Day celebrated?
(A) 1st January
(B) 30th April
(C) 22nd April
(D) None of the above
37. Which disease is caused by fungi?
(A) Polio
(B) Malaria
(C) Dermatitis
(D) Cholera
38. The richest source of Vitamin D is
(A) Milk
(B) Cheese
(C) Cod liver oil
(D) Spinach
39. Oil or soap foam appears colored in daylight because of
(A) Reflection
(B) Interference
(C) Refraction
(D) Surface energy
40. A woman's voice is shriller than man's voice because of
(A) lower frequency
(B) higher frequency
(C) weak vocal chords
(D) higher amplitude

Section III: English Language

Direction for Question No. 41 to 44: Choose the word that is most nearly opposite in meaning to the given words

41. FOLLY
(A) Right
(B) Exact
(C) Mistake
(D) Wisdom
42. APPEASE
(A) Qualify
(B) Satisfy
(C) Agitate
(D) Display
43. BRAVE
(A) Intrepid
(B) Dynamic
(C) Rapid
(D) Enthusiastic
44. AFFECTION
(A) Love
(B) Jealousy
(C) Hatred
(D) Dissatisfaction

Directions for Questions No. 45 to 48: There is a blank in each sentence. Choose the correct answer from the options

45. You can reach the market 15 minutes.
(A) in
(B) into
(C) by
(D) within
46. This is the boy saved the life of my brother.
(A) that
(B) who
(C) whom
(D) which

47. He talks as if he a judge.
(A) were
(B) was
(C) is
(D) may be
48. It is better if there no war in the world.
(A) will be
(B) are
(C) is
(D) would be

Direction for Question No. 49 to 52: Choose the most appropriate synonym

49. HARMONY
(A) Accordance
(B) Incongruity
(C) Discrepancy
(D) Repulsion
50. CANDID
(A) Irritable
(B) Trickily
(C) Intriguing
(D) Guileless
51. PATIENCE
(A) Forbearance
(B) Peacefulness
(C) Anger
(D) Steadfastness
52. CULINARY
(A) Greasy
(B) Pertaining to kitchen
(C) Food
(D) Pertaining to taste

Directions for Question No. 53-56: Read the passage carefully and choose the correct answer from the given options:

Compulsory sport in schools has often provoked bitter controversy and both parents and their children have expressed themselves forcefully on the subject. Their chief arguments have been based on the accepted fact that both mentally and physically youngsters are widely different. A child, who through disinclination or through inability to play any game well, prefers not to join in school games, should be allowed to follow his own particular bent, preferably by doing extra work on a subject within the school curriculum, or taking part in the activities of one of the school societies. Those who are unsuited to any particular game or physical efforts because of a frail physique or bodily defect should be given more sympathetic consideration.

While those pleas from the parents deserve a kindly hearing, the good of the children as a whole must be kept in mind. If we are not careful, the logical conclusion will be reached where only those who excel in athletics will take part in school games, and nobody would accept that as sensible. This must also be borne in mind that both parents and children are apt to exaggerate conditions and the former only too often become over-concerned for the safety and well-being of their offspring. Too many times have those 'excused games' been found involved in adventures requiring far more physical effort and danger than the games from which they have been excused. Experts have declared that in games and athletics with the possible exception of the 'tug-of-war', the body will stop functioning long before any physical harm can be caused.

53. Compulsory sport in schools has been a subject of controversy by—
(A) The parents
(B) The children
(C) The parents, children and teachers
(D) The parents and children
54. A sympathetic consideration is needed for those—
(A) Who have no inclination towards games
(B) Who are unable to participate in games because of poor health or some bodily defect
(C) Who cannot spare any time for games due to their being very particular about studies
(D) Who are not allowed by their parents to take part in games
55. The phrase 'excused games' means—
(A) Games played by those who are exempted from compulsory school games
(B) Games from which players generally avail exemption
(C) Games for which players often seek excuses
(D) Games for which no excuse is permissible
56. Parents exaggerate the condition because—
(A) They are particular about the studies of their children
(B) They become over-concerned for the safety of their children
(C) They are much particular for the well being of their children
(D) For B and C above

Directions for Question No. 57-60: Each of the following sentences or phrases is followed by four alternatives one of which describes in brief the meaning of the sentence or phrase. Choose the correct answer

57. A person who does not believe in the existence of God

- (A) Irreligious
- (B) Disbeliever
- (C) Atheist
- (D) Theist

58. Presented in convincing manner

- (A) Traditional
- (B) Conventional
- (C) Credible
- (D) Cogent

59. To move out of one's own country

- (A) Immigrate
- (B) Emigrate
- (C) Integrate
- (D) Migrate

60. Persons living at the same time period

- (A) Companion
- (B) Contemporaries
- (C) Simultaneous
- (D) Correlatives

Section IV: Numerical Ability

61. There are 30 boys and 40 girls in a class. If the average age of boys is 10 years and average age of girls is 8 years, then the average age of the whole class is
(A) 8 years (B) 8.86 years
(C) 8.2 years (D) 9 years
62. The simplified value of $[(0.111)^3 + (0.222)^3 - (0.333)^3 + (0.333)^2 \times (0.222)]^3$ is
(A) 0.999 (B) 0.111
(C) 0 (D) 0.888
63. The number of 3-digit numbers which are multiples of 9 are
(A) 98 (B) 99
(C) 100 (D) 101
64. By selling a cycle for Rs. 2345/-, a student loses 19%. His cost price in Rupees is nearly
(A) 4000 (B) 5000
(C) 3000 (D) 3500
65. A 300 meters long train is running at a speed of 25 meters per second. It will cross a 200 meters long bridge in
(A) 5 seconds (B) 10 seconds
(C) 20 seconds (D) 25 seconds
66. If the ratio of the areas of two squares is 25:36, then the ratio of their perimeters is
(A) 5:6 (B) 25:36
(C) 6:5 (D) 36:25
67. A box contains 90 discs, which are numbered from 1 to 90. If one disc is drawn at random from the box, the probability that it bears a perfect square number is
(A) 1/10 (B) 1/11
(C) 1/90 (D) 1/9
68. Ram borrows Rupees 520 from Govind at a simple interest of 13% per annum. What amount of money should Ram pay to Govind after 6 months to be absolved of the debt?
(A) Rs. 552.80 (B) Rs. 553.80
(C) Rs. 453.80 (D) Rs. 353.80

69. It takes 8 people working at equal rates to finish a work in 96 days. How long will 6 workers take for the same work?
(A) 92 days (B) 128 days
(C) 111 days (D) 84 days
70. Sameer is as much younger to Mohan as he is older to Arun. If the sum of the ages of Mohan and Arun is 48, the age of Sameer is
(A) 20 years (B) 24 years
(C) 30 years (D) cannot be determined
71. Mr. X, the president of a club, arrived in a meeting at 12.20 PM. He came earlier by 20 minutes than the other participating members in the meeting, who arrived late by 30 minutes. At what time was the meeting scheduled?
(A) 12.10 PM (B) 12.20 PM
(C) 12.40 PM (D) 12.50 PM
72. A speaks truth in 75% of the cases and B in 80% of the cases. In what percentage of cases are they likely to contradict each other, narrating the same incident?
(A) 5% (B) 15%
(C) 35% (D) 45%
73. A man went to the bank with a Rs. 2000/- note. He asked the cashier to give him only Rs. 10/- and Rs. 20/- notes in return. The man got 150 notes in all. How many notes of Rs. 10/- did he receive?
(A) 100 (B) 150
(C) 50 (D) 70
74. The value of k for which $kx + 3y - k + 3 = 0$ and $12x + ky = k$ have infinite solutions is
(A) 0 (B) -6
(C) 6 (D) 1
75. A rod of 2 cm diameter and 30 cm length is converted into a wire of 3 meters length of uniform thickness. The diameter of the wire is
(A) $2/10$ cm (B) $2/\sqrt{10}$ cm
(C) $1/\sqrt{10}$ cm (D) $1/10$ cm
76. If 0.06% of a number is 84, then 30% of that number is
(A) 25.2 (B) 420
(C) 42000 (D) 2520
77. The ratio of two numbers is 4:5. But if each number is increased by 20, the ratio becomes 6:7. The sum of such numbers is
(A) 90 (B) 95
(C) 100 (D) 60

78. Ram travels 10 km towards south, then 7 km towards west, then 13 km towards north and finally 3 km towards east. How far is he from the starting point?
(A) 33 km (B) 0 km
(C) 7 km (D) 5 km
79. Which one is the smallest of the fractions given below
(A) $\frac{9}{10}$ (B) $\frac{11}{12}$
(C) $\frac{23}{28}$ (D) $\frac{32}{33}$
80. A tank can be filled up by two pipes A and B in 2 hours and 3 hours respectively. A third pipe C can empty the full tank in 6 hours. If all the taps can be turned on at the same time, the tank will be full in
(A) 1 hour (B) 40 minutes
(C) 90 minutes (D) 3 hours