



DEV LULLA SIR'S

Lulla Classes

OM SAI RAM



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SCHOLARSHIP CUM ADMISSION TEST

LSAT MOVING TO STD 9

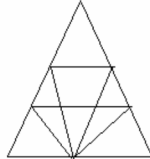
Time 1 hrs Marks : 150

General Instructions

1. This booklet consists of 50 questions. Time allowed will be 60 minutes
2. The answer sheet, OMR, is provided separately. DO NOT tamper with/ Mutilate the OMR or the booklet
3. Submit OMR sheet when asked for by the invigilator. Write all the details which are requested for in capital letters.
4. Side spaces of the question paper booklet may be used for rough work.
5. Marking System: The total test is of 150 marks. +3 marks will be awarded for every correct answer and -1 will be awarded for every incorrect answer.

ANSWER THE BELOW GIVEN QUESTIONS ON THE OMR SHEET ONLY

1. During corrosion of metals, the dull greenish deposit on copper surface is due to -
(a) $Cu(OH)_2 + CuCO_3$ (b) $Cu(OH)_2$ (c) $CuCO_3 + CuO$ (d) $Cu(OH)_2 + CaO$
2. Which petroleum product is used in making ointments, candles & Vaseline etc.
(a) Bitumen (b) Lubricating oil (c) Paraffin wax (d) Kerosene
3. Burning of charcoal in a closed room will produce -
(a) CO_2 (b) NO_2 (c) CO (d) All
4. Which part of flame has very least temperature ?
(a) Outermost (b) Innermost (c) Middle (d) all
5. Species found in particular habitat is called -
(a) Endangered (b) Endemic (c) Vulnerable (d) rare
6. Term for changes at adolescence is -
(a) Puberty (b) Reproduction (c) Maturation (d) Hormonal change
7. Metamorphosis from tadpole to adult frog is controlled by -
(a) Thyroxine (b) Insulin (c) Adrenalin (d) Insulin
8. A type of fertilization in hen -
(a) External (b) Internal (c) both (d) None
9. Potable water is -----
(a) Transparent (b) Translucent (c) Opaque (d) None
10. Male contains XY chromosomes while female contains -----.
(a) XX (b) YY (c) XYZ (d) None
11. Direction of friction is always ----- to direction of applied force.
(a) Similar (b) Opposite (c) Perpendicular to (d) None
12. Choose the odd one out.
(a) Grooves (b) Cleats (c) Treads (d) Oil
13. n/m^2 is the unit of
(a) Force (b) Work (c) Pressure (d) Thrust
14. The lens used for correction of near sightedness is
(a) Concave lens (b) convex lens (c) Cylindrical lens (d) Biconvex lens
15. The mirror used for rear view in cars is
(a) Concave (b) convex (c) plane (d) Depends

16. Philology is the study of
 (a) Study of bones (b) Study of muscles
 (c) Study of architecture (d) Science of languages
17. India's satellite launching station is located at
 (a) Sriharikota (A.P) (b) Solapur (Maharashtra)
 (c) Salem (Tamilnadu) (d) Warangal (Andhrapradesh)
18. A 'Black Flag' signifies
 (a) Revolution (b) Peace (c) Protest (d) Truce
19. The chief constituent of gobar gas is
 (a) Ethane (b) Methane (c) Hydrogen (d) Carbon Dioxide
20. World's busiest airport by passenger traffic is in
 (a) USA (b) Tibet (c) Saudi Arabia (d) China
21. Find number of triangles in given follow. Figure.
- 
- (a) 12 (b) 22
 (c) 18 (d) 26
22. A certain bag contains 40 balls – 22 white, 10 green and rest are red balls. If a ball is to be chosen at random, ----- is probability that ball so chosen is neither red nor green.
 (a) 0.55 (b) 0.6 (c) 0.5 (d) 0.29
23. In a four digit number 593b, $a > b$ and $a = b^3$. Then, difference of number and its cube root is --
 (a) 5850 (b) 5220 (c) 5256 (d) 5814
24. ----- is number of days in January, February and March 1972.
 (a) 91 days (b) 90 days (c) 89 days (d) None
25. A clock rings at 10' Clock, 2 O'clock 3 O'clock and so on. Then the number of times it will ring in a week is -----.
 (a) 256 times (b) 168 times (c) 156 times (d) 152 times
26. $\frac{37^3 - 28^3}{37^2 + 37.28 + 28^2} = \text{-----}$.
 (a) 3 (b) 6 (c) 9 (d) 12
27. Ratio of T to $\sqrt{\ell}$ is $\frac{2\pi}{\sqrt{g}}$ then $\sqrt{\ell}$ is -----.
 (a) $\frac{\sqrt{Tg}}{2\pi}$ (b) $\frac{\sqrt{Tg}}{2\pi}$ (c) $\frac{Tg}{\sqrt{2\rho}}$ (d) $\frac{T\sqrt{g}}{2\pi}$
28. If $\frac{a}{b-a} = \frac{7}{8}$ then ----- is value of $\frac{a}{b}$.
 (a) 7 (b) $\frac{15}{7}$ (c) $\frac{7}{15}$ (d) $\frac{-15}{7}$
29. A is 50% more than B, then B is less than A by -----.
 (a) $33\frac{1}{3}\%$ (b) 25% (c) 50% (d) $60\frac{2}{3}\%$
30. If SP = x Rs., CP= y Rs. and profit = Z % then, $\frac{x}{y} = \text{-----}$
 (a) Z% (b) $100 + Z\%$ (c) $\frac{100 + Z\%}{100}$ (d) $\frac{100 + Z}{100}$

31. Sum of five consecutive odd natural numbers is 65. ----- is sum of extreme number.
 (a) 26 (b) 30 (c) 24 (d) 32
32. A bar graph is drawn to scale 1 cm = k units, then a bar of length k cm represents -----.
 (a) 1 unit (b) k units (c) 2k units (d) k^2 units
33. Surface area of a football is $100\pi \text{ cm}^2$. ----- is volume of air in it.
 (a) $\frac{200}{3}\pi \text{ cm}^3$ (b) $\frac{350}{3}\pi \text{ cm}^3$ (c) $\frac{500}{3}\pi \text{ cm}^3$ (d) $\frac{400}{3}\pi \text{ cm}^3$
34. In a right angled triangle ABC, AB = AC. Then a : b : c is -----.
 (a) $1:\sqrt{2}:1$ (b) $1:1:\sqrt{2}$ (c) $1:1:2$ (d) $\sqrt{2}:1:1$
35. Supplement of angle and complement of another have a sum equal to half of a complete angle. If greater angle is 10° more than smaller, then ----- is smaller angle.
 (a) 40° (b) 35° (c) 45° (d) 30°
36. Which of following digits have two lines of symmetry ?
 0, 1, 2, 3, 4, 5, 6, 7, 8, 9
 (a) 0 and 8 (b) 1 and 7 (c) 2 and 6 (d) 4 and 3
37. ABCD is a Quadrilateral in which $\angle A = 60^\circ$, $\angle B = 70^\circ$, $\angle C = 110^\circ$ and $\angle D = 120^\circ$. The number of pairs of parallel lines is -----.
 (a) One (b) two (c) three (d) None
38. $\left[(64)^{\frac{1}{2}}\right]^{\frac{1}{3}} \times \left[\left(\frac{1}{27}\right)^{\frac{1}{3}}\right]^2 = \text{-----}$.
 (a) 2 (b) 9 (c) $\frac{9}{2}$ (d) $\frac{2}{9}$
39. Curved surface area of a right circular cylinder of base radius r is obtained by multiplying its volume by -----.
 (a) $\frac{2}{r^2}$ (b) $2r^2$ (c) $\frac{2}{r}$ (d) $2r$
40. If $S = \frac{a}{1-r}$ then make r as the subject of formula.
 (a) $r = \frac{a}{s} + 1$ (b) $r = 1 + \frac{s}{a}$ (c) $r = 1 - \frac{s}{a}$ (d) $r = 1 - \frac{a}{s}$

Read the passage and answer the following questions no 41 to 45

Widespread national acclaim aside, Raahgiri Day is now getting international accolades. A Washington-based non-profit group called The Earth Day Network (TEDN) has listed Raahgiri Day among the most 'inspiring' sustainability campaigns being carried out globally. The decision was taken by the global advisory committee of the TEDN as a part of its 24 Inspiring Stories for Pathways to Green Cities' programme. "They came to know about Raahgiri Day even though none of them lives in Gurgaon, which is remarkable," said Amit Bhatt, strategy head for urban transport at EMBARQ India, which is among the main organizers of Raahgiri Day. Having Raahgiri Day as one of the 24 inspiring stories globally will help showcase this campaign on the international stage, and inspire other cities to follow suit, "Bhatt said. Raahgiri Day, the only such weekly event in the country dedicated to active commuting, now has three separate venues in Gurgaon. The original 4-kilometre loop near Galleria Market was extended to parts of DLF V and Golf Course Road last month. And most recently, a separate venue in Palam Vihar was added to the overall setting, making this the only city which has over 13 kilometres of roads reserved for pedestrians and cyclists every Sunday morning. The first Raahgiri Day in Gurgaon saw the streets near Galleria market bafflingly unfamiliar. Instead of the usual sights, with cars and autos clogging it up, the area resembled a recreational park. There were groups of cyclists and joggers, children on roller-blades, idlers and saunterers going this way or that. It was all way too relaxed, upbeat and festive for a Sunday morning in Gurgaon. Raahgiri Day was an attempt to help residents "explore their streets from a new

perspective” and , of course, to have a social gathering of sorts, with all its fun aspects in place. Diversions for the health-conscious included an open-air gym, combat training, yoga and aerobic workshops, along with cycling and marathon events organized early in the morning. For the more casual variety of visitors, there were Frisbee and gully-circket challenges, not to mention the singing and dancing that kept everyone’s spirits high.

41. When is the Raahgiri Day celebrated ?
 (a) First Sunday of each month (b) Last Sunday of each month
 (c) On holidays (d) Every Sunday
42. What is the core purpose behind the Raahgiri Day ?
 A : To make people realize that roads are not only for the cars, but also for pedestrians and cyclists.
 B : To bring the society together
 C : To avoid parks from getting dirty.
 (a) Only A (b) Only B (c) Only C (d) A,B and C
43. Who is the main organizer of the Raahgiri Day ?
 (a) TEDN (b) DLF (c) EMBARQ (d) Resident Welfare Associations of Gurgaon (RWA)
44. Why has TEDN enlisted Raahgiri Day as an inspirin campaign ?
 (a) First of its kind campaign dedicated to active commuting.
 (b) Environment-friendly, as for few hours there are no cars on the road.
 (c) Bringing the society closer.
 (d) All of the above.
45. Which of the following activity is not a part of this day ?
 (a) Skating (b) Yoga (c) Cycling (d) Shopping

Pick out the nearest correct meaning of synonym of the words given below :

46. ATTRIBUTE
 (a) Infer (b) impute (c) inhere (d) inundate

Pick out the antonyms of the words given below :

47. FEIGN
 (a) condone (b) attend (c) willing (d) original

Rearrange the following six sentences (A), (B), (C), (D), (E) and (F) in the proper sequence to form a meaningful paragraph; then answer the questions given below them.(Q. 48 – 50)

- (A) O-nami was very strong and knew the art of wresting. In his private spells he defeated even his teacher, but in public he was so timid, that his own pupils defeated him.
- (B) The teacher advised him saying “Your name means Great Waves, imaging that you are huge waves sweeping everything before you, swallowing everything in your path. Do this and you will be the greatest wrestler in the country.”
- (C) O-nami soon registered for a wrestling match and won. After that, no one in Japan was able to defeat him.
- (D) In the early days of the Meiji era there lived a well-known wrestler called O-nami, Great Waves.
- (E) In the days that followed, O-nami meditated on the advice given by the Zen master.
- (F) O-nami felt he should go to a Zen master for help. He approached Hakuju a wandering teacher and told him of his great trouble.
48. Which of the following should be the SECOND sentence after the rearrangement ?
 (a) A (b) D (c) F (d) B
49. Which of the following should be the FIRST sentence after the rearrangement ?
 (a) E (b) B (c) D (d) C
50. Which of the following should be the FIFTH sentence after the rearrangement ?
 (a) E (b) D (c) B (d) F

Solutions

1.	(a) $Cu(OH)_2 + CuCO_3$	26.	(c) 9
2.	(c) Paraffin wax	27.	(d) $\frac{T\sqrt{g}}{2\pi}$
3.	(c) CO	28.	(c) $\frac{7}{15}$
4.	(b) Innermost	29.	(a) $33\frac{1}{3}\%$
5.	(b) Endemic	30.	(c) $\frac{100 + Z\%}{100}$
6.	(a) Puberty	31.	(a) 26
7.	(a) Thyroxine	32.	(d) k^2 units
8.	(b) Internal	33.	(c) $\frac{500}{3} \pi cm^3$
9.	(a) Transparent	34.	(d) $\sqrt{2}:1:1$
10.	(a) XX	35.	(a) 40°
11.	(b) Opposite	36.	(a) 0 and 8
12.	(d) Oil	37.	(a) One
13.	(c) Pressure	38.	(d) $\frac{2}{9}$
14.	(a) Concave lens	39.	(c) $\frac{2}{r}$
15.	(b) convex	40.	(d) $r = 1 - \frac{a}{s}$
16.	(d)	41.	(d)
17.	(a) Sriharikota (A.P)	42.	(a)
18.	(c) Protest	43.	(d)
19.	(b) Methane	44.	(b)
20.	(a) USA	45.	(d)
21.	(c) 18	46.	(c)
22.	(a) 0.55	47.	(a)
23.	(d) 5814	48.	(a)
24.	(a) 91 days	49.	(d)
25.	(b) 168 times	50.	(e)