



DEV LULLA SIR'S

Lulla Classes

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OM SAI RAM



SCHOLARSHIP CUM ADMISSION TEST

LSAT MOVING TO STD 8

Time 1 hrs Marks : 150

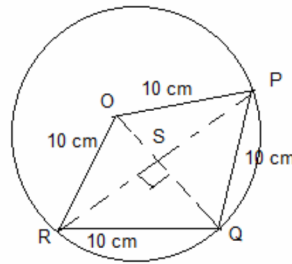
General Instructions

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

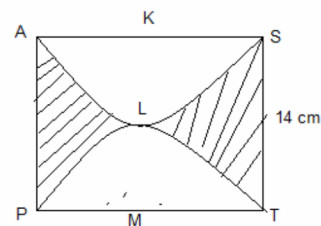
1. If $x = 64$, then ----- is value of $\left(x^{\frac{1}{3}} - 1\right)\left(x^{\frac{1}{3}} + 1\right)$
(a) 14 (b) 15 (c) 16 (d) 17
2. A camera was purchased for 875 Rs. and 25 Rs. were paid on repairs. ----- is loss percentage if it is sold for 855 Rs.
(a) 5% (b) 10% (c) 15% (d) 2%
3. For certain sum deposited the simple interest of first two years is 480 Rs. while compound interest is 36 Rs. more then ----- is rate of interest.
(a) 5% (b) 20% (c) 10% (d) 15%
4. ----- should be subtracted from $(6x^2 + x + 5)$ so that result is divisible by $(2x - 1)$.
(a) $2x$ (b) $3x$ (c) $2x + 2$ (d) $3x + 2$
5. Volume and lateral surface area of a hemisphere are numerically equal. Then ----- is radius of hemisphere in units.
(a) 2 (b) 3 (c) 4 (d) 8
6. From ----- number should $-\frac{8}{21}$ be subtracted to get $\frac{29}{63}$.
(a) $\frac{1}{63}$ (b) $-\frac{2}{63}$ (c) $\frac{4}{63}$ (d) $\frac{5}{63}$
7. ----- is value of $\left[\left\{\left[\left(\frac{4}{5}\right)^{-1}\right]^{-2}\right\}^{\frac{1}{5}}\right]^{(-10)}$
(a) $\frac{252}{625}$ (b) $\frac{625}{256}$ (c) $\frac{620}{252}$ (d) $\frac{625}{250}$
8. ----- is a number which when divided by $\{(3)^{-1} + (2)^{-1}\}^2$ gives quotient as $\left\{(6)^{-1} + \left(\frac{3}{2}\right)^{-1}\right\}^{-1}$
(a) $1\frac{2}{3}$ (b) $3\frac{1}{2}$ (c) $\frac{5}{6}$ (d) $\frac{1}{6}$

9. If $\sqrt{2} = 1.414$ and $\sqrt{3} = 1.732$ then ----- is value of $\sqrt{\frac{441}{18}}$.
 (a) 4.723 (b) 4.939 (c) 4.947 (d) 4.949
10. ----- is value of $100a(0.01a^4 - 0.01a^2)$ when $a = 2$, $b = 1.15$ and $c = 0.001$
 (a) 42 (b) 24 (c) 44 (d) 22
11. ----- is value of x in equation $[(3x - 5)^2 + (3x + 5)^2 = (18x + 10)(x - 2) + 44]$
 (a) 68 (b) 66 (c) 64 (d) none
12. There are some benches in classroom. If 4 students sit on each bench, three benches are left vacant and if 3 students sit on each bench, 3 students are left standing ----- is total number of students in class.
 (a) 49 (b) 40 (c) 48 (d) 45
13. $\frac{1}{3}$ of 1,206 is equal to ----- % of 134.
 (a) 100 (b) 200 (c) 300 (d) 400
14. Radius of base of right circular cylinder is halved keeping height same ----- is ratio of volume of smaller cylinder to that of original cylinder.
 (a) 1 : 4 (b) 1 : 2 (c) 1 : 3 (d) 1 : 5
15. A solid cubic block of fine wood cost 256 Rs. at 500 Rs. per m^2 . ----- is length of each side.
 (a) 0.6 m (b) 0.8 m (c) 0.9 m (d) 0.7 m
16. OPQR is a Rhombus whose three vertices P, Q and R lie on a circle with centre O. If radius of circle is 10 cm, then ----- is area of Rhombus.
 (a) 50 cm^2 (b) $50\sqrt{3} \text{ cm}^2$
 (c) $20\sqrt{3} \text{ cm}^2$ (d) 20 cm^2



17. ----- is area of shaded region, if PAST is a square of side 14 cm and ALS and PLT are semicircle.

- (a) 42 cm^2 (b) 49 cm^2
 (c) 24 cm^2 (d) 36 cm^2

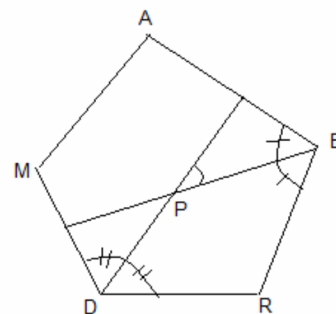


18. Each face of an Ico sahedron is -----.

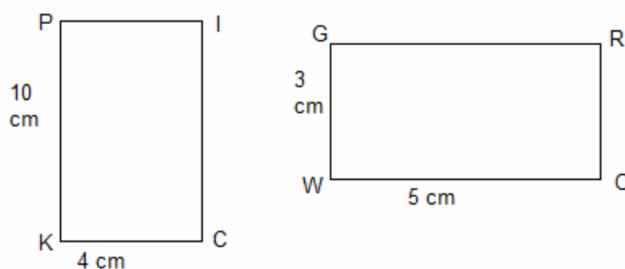
- (a) A pentagon (b) a square (c) a hexagon (d) an equilateral triangle

19. In adj. fig. DREAM is a regular pentagon. Bisectors Of $\angle MDR$ meets AE at Q. If bisectors of $\angle AER$ meets QD at P. Then ----- is $\angle EPQ$.

- (a) 30° (b) 60°
 (c) 90° (d) 120°



20. Look at rectangles shown along side. Perimeter of rectangle PICK is ----- perimeter of rectangle GROW.



- (a) more than (b) less than (c) equal to (d) twice
21. Philology is the study of
 (a) Study of bones (b) study of muscles (c) Study of architecture (d) science of languages
22. India's satellite launching station is located at
 (a) Sriharikota (A.P.) (b) Solapur (Maharashtra) (c) Salem (Tamilnadu) (d) Warangal (A.P.)
23. A 'Black Flag' signifies
 (a) Revolution (b) Peace (c) Protest (d) Truce
24. The chief constituent of gobar gas is
 (a) ethane (b) methane (c) Hydrogen (d) carbon dioxide
25. World's busiest airport by passenger traffic is in
 (a) USA (b) Tibet (c) Saudi Arabia (d) China
26. Organisms in a particular environment have special teeth structure, feet body shape & body coverings. These adaptations are called -----
 (a) Structural adaptations (b) Ornamental adaptations
 (c) Behavioural adaptations (d) Temporary adaptations
27. Some animals hibernate by going into a long sleep which of the following statements hold true regarding this
 (a) The breathing & heart rate of animal increases.
 (b) Body temperature of animal increases so that it survives through the winter.
 (c) It is a way of surviving food scarcity & cold weather.
 (d) All of above
28. During a cyclone, air moves from -
 (a) Region of high to low pressure (b) Region of low to high pressure
 (c) Region of low velocity to high velocity. (d) Region of high velocity to low velocity
29. A tornado is -
 (a) Uneven heating between two regions (b) A violent twisting funnel of wind
 (c) Strong circulatory winds in the tropical region (d) None
30. Which of the following factors related to fibres decide the quality of wool ?
 (i) Thickness (ii) length (iii) shine (iv) strength (v) colour
 (a) (i), (iii) & (iv) (b) (i) (iv) and (v) (c) (i), (iii), (iv) & (v) (d) All
31. Which of the following increases when a liquid becomes a gas at it's boiling point ?
 (a) The average kinetic energy of the molecules (b) The molecular size
 (c) The molecular spacing (d) The total number of molecules

32. Match the column I & column II & mark the correct option.

Column I

Column II

a) Lime stone

(i) NaHCO_3

b) Blue Vitriol

(ii) CuSO_4

c) Vinegar

(iii) CaCO_3

d) Baking Soda

(iv) CH_3COOH

(a) (iii), (ii), (iv), (i)

(b) (i), (ii), (iv), (iii)

(c) (ii), (iii), (i), (iv)

(d) (iv), (i), (ii), (iii)

33. Chinmay is blowing into a beaker containing lime water through a straw. What will be observe

(a) Lime water turns violet

(b) Lime water turns yellow

(c) Lime water turns milky

(d) No change in colour

34. When a person breathes in, what happens to the diaphragm & to the rib cage ?

Diaphragm

Rib cage

(a) Becomes flatten

moves down ward & inward

(b) Becomes flatten

moves outward & upward

(c) Becomes more curved

moves downward & inward

(d) Becomes more curved

moves outward & upward

35. Which of the following processes if absent would most significantly affect the movement of water through xylem in the stem ?

(a) Mineral salts being taken in by active transport in the roots ?

(b) Water lost from the aerial parts of the plant

(c) Water being given off during respiration

(d) Water taken in by osmosis in the roots.

36. Which of the following gives the correct functions of the xylem & phloem in a green plant ?

Xylem

Phloem

(a) Transport food water & minerals

Provide support to plant

(b) Transport water, mineral & gases

Provide support to plant

(c) Provide support to plant & transport gases

Transport water & minerals

(d) Provide support to the plant & transport water and minerals

Transport food

37. To & fro motion is an example of

(a) Oscillatory motion

(b) Periodic motion

(c) Circulatory motion

(d) Both A & B

38. Which of the following is not a unit of speed

(a) Meter/sec

(b) sec/meter

(c) kilometer/hr

(d) meter/min

39. The necessary requirement for a fuse wire is -

(a) Conductor with low melting point

(b) Conductor with high melting point

(c) Insulator with low melting point

(d) Insulator with high melting point

40. Which of the following is correct for lateral inversion -

(a) Right side of the object will be right side of image

(b) Left side of the object will be left side of image

(c) Upside side of object will be downside of image

(d) Right side of object will be left side of image.

41. Choose the correct opposite for the word 'fortunate'

(a) Misfortunate

(b) unfortunate

(c) disfortunate

(d) infortunate

42. Select the correct noun from for 'extend'

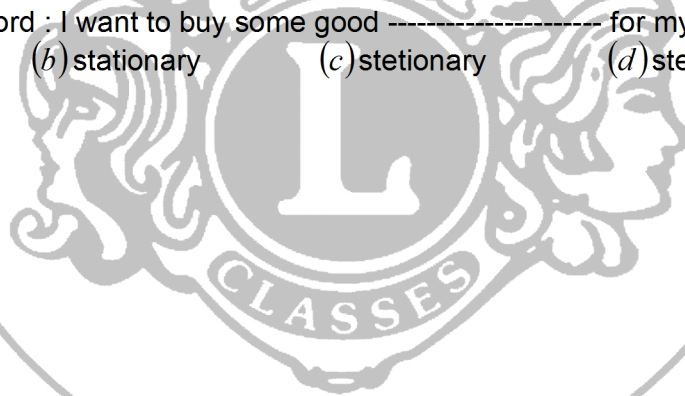
(a) Extendable

(b) extension

(c) extense

(d) extended

43. His light frame seemed heavily as a mass of lead. (Change the degree)
(a) His light frame seemed heavier than lead (b) His light frame seemed as heavy as lead
(c) His light frame seemed not heavier than lead (d) His light frame did not seem as heavy as lead
44. She was not at home, I thought she ----- be with her sister.
(a) Must (b) might (c) could (d) may
45. Give one word for many : Long narrow opening
(a) Warren (b) funnel (c) burrow (d) chink
46. Make affirmative : I do not require either of you this afternoon.
(a) I require neither of you this afternoon.
(b) There is lack of requirement of either of you this afternoon.
(c) There is an absence of requirement of either of you this afternoon.
(d) None of you is required this afternoon by you by me.
47. Make interrogative : There were a few elephants on the far side.
(a) Wasn't have a few elephants on the far side ?
(b) Weren't there a few elephants on the far side ?
(c) Was there a few elephants on the far side ?
(d) Were there a few elephants on the far side ?
48. Choose the correct synonym for word 'Vanish'.
(a) Grab (b) cage (c) disappear (d) caught
49. Put words in right order to make a sensible sentence :
(a) aren't / basket ball / you / enough / to / tall / play
(b) tall / play / aren't / basket ball / you / to / enough
(c) you / aren't / tall / enough / to / play / basket ball
(d) aren't / basket ball / tall / enough / you / to / play
50. Choose the correct word : I want to buy some good ----- for my office.
(a) Stationery (b) stationary (c) stetionary (d) stetionery



Solutions

1.	(b) 15	26.	(a) Structural adaptations
2.	(a) 5%	27.	(c) It is a way of surviving food scarcity & cold weather.
3.	(d) 15%	28.	(a) Region of high to low pressure
4.	(d) $3x + 2$	29.	(b) A violent twisting funnel of wind
5.	(b) 3	30.	(d) All
6.	(d) $\frac{5}{63}$	31.	(a) The average kinetic energy of the molecules
7.	(b) $\frac{625}{256}$	32.	(a) (iii), (ii), (iv), (i)
8.	(a) $1\frac{2}{3}$	33.	
9.	(d) 4.949	34.	
10.	(b) 24	35.	(b) Water lost from the aerial parts of the plant
11.	(a) 68	36.	(d) Provide support to the plant & transport food water and minerals
12.	(c) 48	37.	(d) Both A & B
13.	(c) 300	38.	(b) sec/meter
14.	(a) 1 : 4	39.	(a) Conductor with low melting point
15.	(b) 0.8 m	40.	
16.	(b) $50\sqrt{3} \text{ cm}^2$	41.	(b) unfortunate
17.	(a) 42 cm^2	42.	(b) extension
18.	(d) an equilateral triangle	43.	(c) His light frame seemed not heavier than lead
19.	(b) 60°	44.	(b) might
20.	(a) more than	45.	(d) chink
21.		46.	(c) There is an absence of requirement of either of you this afternoon.
22.	(a) Sriharikota (A.P.)	47.	(b) Weren't there a few elephants on the far side ?
23.	(c) Protest	48.	(c) disappear
24.	(b) methane	49.	(c) you / aren't / tall / enough / to / play / basket ball
25.	(a) USA	50.	(a) Stationery