LOWER DIVISION CLERK - EXAMINATION 2023 FOOD, CIVIL SUPPLIES & CONSUMER AFFAIRS DEPARTMENT

		PAPER - II (Simj Full Mark -	ple Arithmetic) 50 Marks	A			
CHOOSE THE CORRECT ANSWER OF THE FOLLOWING QUESTIONS : (25 x 2m) Which is meaningless?							
	(a) XV	(b) XIX	(c) IXIV	(d) XXIV			
2.	If the two graphs lines (a) intersect at a point	have no solutions, the (b) parallel	e graphs lines are (c) coincide	(d) intersect at two points			
3.	What is the value of $\sqrt{540 - \sqrt{114 + \sqrt{50 - 1}}}$						
	(a) 23	(b) 21	(c) 19	(d) 17			
4.	The average of 7 conse (a) 17	ecutive numbers is 20. (b) 19	. What is the largest o (c) 21	f these numbers? (d) 23			
5.	The marked price of a ceiling fan is Rs 720. During off season, it is sold for Rs. 684. Determine the discount percent.						
	(a) 4%	(b) 6%	(c) 5%	(d) 5.26%			
6.	A garden has 3850 trees. 31% of these are mango trees 43% lemon and the rest are orange trees. Find the number of orange trees.						
	(a) 1309	(b) 1001	(c) 1386	(d) 1011			
7.	A television and a washing machine were sold for Rs 9900 each. If the television was sold at a gain of 10% and the washing machine at a loss of 10%. Find the overall profit% or loss% on the entire transaction?						
	(a) No gain no loss	(b) 1% gain	(c) 1% loss	(d) 10% gain			
8.	In a 60 littre mixture of milk and water, the ratio of milk to water is 2:1. How many liters of water is to be added to this, to make the ratio 1:2 in the new mixture?						
	(a) 60 littres	(b) 40 littres	(c) 20 littres	(d) 10 littres			
9.	A started a business and he invested in 38000, After some month, B came to join with hi and invest 28500. The end of the year the total profit was divided among them into ratio for 16: 8. Find after how many months did B join.						
	(a) 5 months	(b) 3 months	(c) 2 months	(d) 4 months			
10.	A certain number of men can complete a piece of work in 180 days. If there are 30 men less, it will take 20 days more for the work to be completed. How many men were there originally? (a) 250 (b) 330 (c) 300 (d) 200						
11.	A can do a piece of work in 8 days and B in 12 days. B work for 6 days and left the job. If the						

remaining work was done by A, find the total time taken by them (a) 10 days (b) 3 days (c) 4 days (d) 5 days

12.	The average speed of a tractor is two-fifth the average speed of a car. The car covers 450						
	in 6 hours. How much	distance will the tract	or cover in 8hours?				
	(a) 480 km	(b) 420 km	(c) 240 km	(d) 210 km			
13.	The simple interest on Rs 3600 in 3 years at 5% per annum is						
	(a) Rs 540	(b) Rs 550	(c) Rs 560	(d) Rs 600			
14.	Compute the compound interest on Rs. 16000 for 1 year 6 months at 10% per annum when compounded half yearly.						
	(a) 18225	(b) 19522	(c) 18552	(d) 18522			
15.	A hemisphere, a cone,	hemisphere, a cone, and a cylinder stand on equal bases and have the same height. The ratio					
	(a) 3 : 4 : 5	(b) 2 : 1 : 3	(c) 2 : 5 : 7	(d) 1 : 3 : 2			
16.	The volume of a box is 13400 cm^3 . The area of its base is 670 cm^2 . Find the height of the box						
101	(a) 20cm	(b) 2cm	(c) 10cm	(d) 15cm			
17	Find the number of permutations of the letters of the word $MIZOR \Delta M$						
1,.	(a) 2250	(b) 2520	(c) 2550	(d) 5220			
18.	A vertical tower stands on a horizontal plane and is surmounted by a vertical flagstaff of height <i>h</i> . At a point on the plane, the angles of elevation of the bottom and top of the flagstaff are α and β respectively. Prove that the height of the tower is						
	(a) $\frac{h \tan \alpha}{1-\alpha}$	(b) $\frac{\beta \tan h}{\beta}$	$h \tan \alpha$	(1) $\frac{h \tan \beta}{2}$			
	(a) $\tan a - \tan \beta$	(b) $\tan\beta - \tan\alpha$	(c) $\tan\beta - \tan\alpha$	(d) $\tan\beta - \tan\alpha$			
19.	In the given figure, the incurred by a publisher costs Rs 540 to the pub Printing is (a) Rs 36 (c) Rs 72	pie-chart shows the e in bringing out a boo blisher, the expenditur (b) Rs 54 (d) Rs 108	expenditure ok. If a book re spent on Pape	ing Binding 72° 54° Royalty 108° 90° er Others			
20.	Evaluate : $\sqrt[3]{\frac{0.343 \times 125}{0.000064}}$						
	(a) 87.5	(b) 875	(c) 8.75	(d) 8750			
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21.	Find the value of x : $5x - 2(2x - 7) = 2(3x - 1) + \frac{7}{2}$						
	(a) 25	(b) 2.5	(c) 3.2	(d) 32			

22. A number is 84 more than twice 25% of it. The number is (a) 168 (b) 156 (c) 148 (d) 94

- 23. Which of the following is the second greatest? (a) 10% of 600 (b) 70% of 100 (c) 30% of 300 (d) 20% of 400
- 24. Divide Rs. 1440 among A, B, and C such that C gets 1/3 of what B gets and A gets 4/5 of what C gets. Find the share of A
 (a) Rs 480
 (b) Rs 300
 (c) Rs 420
 (d) Rs 240

