

Meritorious Tutorials

#33, Kesar Garden Sec-20, Kharghar Navi Mumbai

ADMISSION TEST

Class 09 - Admission Test

Time Al	lowed: 30 minutes	Maximum Marks	33
General	Instructions:		
	All the questions are compulsory.		
1.	160 m ³ of water is to be used to irrigate a rectangular water level in the field?	field whose area is 800 m ² . What will be the height of the	[1]
	a) 2 m	b) 1.6 m	
	c) 0.2 m	d) 0.4 m	
2.	Which of the following is not a random experiment?	X	[1]
	a) Rolling a die	b) Tossing a coin	
	c) Throwing a stone from the roof of a building	d) Choosing a card from a deck of 52 cards	
3.	of a solid is the sum of the areas of its faces	S	[1]
	a) Perimeter	b) Area	
	c) Volume	d) Surface area	
4.	A sum of money placed at compound interest doubles	itself in 4 years. In how many years will it amount to eight	[1]
	times itself?		
	a) 14 yrs	b) 12 yrs	
	c) 16 yrs	d) 18 yrs	
5.	729 ml of a mixture contains milk and water in the rat	tio 7 : 2. How much more water is to be added to get a new	[1]
	mixture containing milk and water in the ratio $7:3$?		
	a) 520 ml	b) none of these	
	c) 710 ml	d) 600 ml	
6.	Evaluate: 8 ² .		[1]
	a) 64	b) 16	
	c) 8	d) 24	
7.	Ratio of 250 ml to 2 L is		[1]
	a) 25 : 200	b) 1:8	
	c) 8:1	d) 2:1	
8.	If 12.5% of 192 = 50% of x, then x =		[1]

	a) 48	b) 45	
	c) 25	d) 92	
9.	A rectangular container is of size 12 cm (length) \times 8	cm (width) and 4 cm (height). How many ice cubes of side	[1]
	2 cm each can be placed in this container?		
	a) 58	b) 28	
	c) 38	d) 48	
10.	A cube of side 4 cm is cut into 1 cm cubes. What is the cubes?	ne ratio of the surface areas of the original cube and cut-out	[1]
	a) 1:4	b) 1:6	
	c) 1:2	d) 1:3	
11.	Samir purchased a pair of shoes for ₹1344 including GST is	GST. If the sale price of the shoes is ₹1200, then the rate of	[1]
	a) 18%	b) 12%	
	c) 6%	d) $10\frac{5}{7}\%$	
12.	A imes A = 3A when A		[1]
	a) 6	b) 7	
	c) 4	d) 2	
13.	In the given multiplication, the value of A is	6	[1]
	AB		
	$\frac{\times 5}{CAB}$		
	a) A = 2, B = 5, C = 1	b) A = 7, B = 0, C = 0	
	c) A = 5, B = 0, C = 3	d) A = 2, B = 8, C = 4	
14.	Evaluate the exponential expression $(-y)^4 \times (-y)^5$, for		[1]
	a) 9	b) 2	
	c) 1	d) -1	
15.	Which of the following properties of rational number	,	[1]
	$\frac{3}{4} \times \left(\frac{7}{3} \times \frac{-4}{5}\right) = \left(\frac{3}{4} \times \frac{7}{3}\right) \times \frac{-4}{5}$		
	a) Distributivity of addition over multiplication	b) Commutativity of addition	
	c) Distributivity of multiplication over addition	d) Associativity of multiplication	
16.	The compound interest on ₹ 30000 at 7% per annum	is ₹ 4347. The period (in years) is:	[1]
	a) 3	b) 2	
	c) $2\frac{1}{2}$	d) 4	
17.	Find $\frac{3}{7} + \left(-\frac{6}{11}\right) + \left(-\frac{8}{21}\right) + \frac{5}{22}$		[1]
	a) 462	b) 125	
	c) $\frac{-125}{462}$	d) -125	

18.	Find a rational number between $\frac{1}{4}$ and $\frac{1}{2}$.		[1]
	a) $\frac{3}{8}$	b) 0	
	c) $\frac{1}{2}$	d) 2	
19.	Find $\frac{3}{4} + \left(-\frac{5}{2}\right) + \left(-\frac{8}{3}\right) + \frac{5}{5}$		[1]
	a) -41	b) -1	
	c) $-\frac{41}{12}$	d) 12	
20.	Find the surface area of a chalk box whose length, br	eadth and height are 10 cm, 6 cm and 3 cm respectively.	[1]
	a) 256 cm ²	b) _{117 cm²}	
	c) 275 cm ²	d) 216 cm ²	
21.	The price of a washing machine is Rs 15,000. The sa	les tax charged on it is at the rate of 15%. Find the amount	[1]
	that Arjun will have to pay if he buys it.		
	a) Rs 14,250	b) Rs 14,550	
	c) Rs 15,250	d) Rs 17,250	
22.	An item marked at Rs 540 is sold for Rs 500. What is	s the discount amount?	[1]
	a) Rs 50	b) Rs 40	
	c) Rs 30	d) Rs 60	
23.	The standard form for 0.000064 is:	6	[1]
	a) 6.4×10^{-5}	b) 6.4×10^5 d) 64×10^4	
	c) 64 × 10 ⁻⁴	d) 64×10^4	
24.	If 8% VAT is included in the prices, find the original	price of a TV bought for Rs 13,500.	[1]
	a) Rs 13,000	b) Rs 12,500	
	c) Rs 12,000	d) Rs 14,000	
25.	Simplify: $2^5 \div 2^{-6}$		[1]
	a) 2 ⁹	b) 2 ¹¹	
	c) 2 ¹⁰	d) 2 ⁸	
26.	Data represented using circles is known as:		[1]
	a) histogram	b) pie chart	
	c) bar graph	d) pictograph	
27.		d interest and simple interest is ₹160. If simple interest for 2	[1]
	years is ₹2880, then what is rate of interest?		
	a) $11\frac{1}{9}\%$	b) 9%	
	c) $5\frac{5}{9}\%$	d) $12\frac{1}{2}\%$	
28.	Solve: $\frac{2x}{3} + 1 = \frac{7x}{15} + 3$		[1]
	a) 6	b) 5	

c) 3 d) 10 29. Select the figure which is different from others. [1] (1) b) Figure (2) a) Figure (1) c) Figure (4) d) Figure (3) 30. Select the figure that shows a similar relationship. [1] ? d) Riya walks 15 m towards West. She turned left and walks 20 m. She then turned left and walked 15 m. After this [1] 31. she turned to her right and walks 12 m. How far and in which direction is she now from the starting point? a) 47 m, East b) 42 m, South d) 32 m, South c) 42 m, North 32. In the English alphabet, which letter will be to the immediate left of M? [1] A, B, C, D, M, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z a) P b) O c) L d) N 33. Select the figure that shows the similar relationship. [1] b) a)

d)

c)