QN NO	QUESTIONS	A	B	C	D
1	Rani gets 188 marks and fails by 12 marks. To pass she has to secure 50% marks. Then what is the maximum mark ?	100	200	300	400
2	The difference between two numbers is 34. The sum of them is 62. What is the lower number ?	14	16	46	48
3	1/2 is what percentage of 1/4 ?	50%	100%	200%	400%
4	A cube has ----------- diagonals ?	6	12	9	4
5	$8^0 \times 8^1 \times 8^2 \times 1^{100} \times 2^1$ = ?	0	1	1024	102400
6	log 1000 = ?	1	3	10	100
7	(x - a) (x - b) (x - c) (x - d) (x - e) -- (x - y) (x - z) = ?	x^{26} - abcde--------yz	(x - abcde------yz)^{26}	1	0
8	(-3,a), (6,1) are two points on a line parellel to X axis. Then what is a ?	0	1	3	6
9	Length of one of the edges of a cube is a. What is the total surface area of the cube?	a^3	$12 a^2$	$6 a^2$	$6a^3$
10	If 17, a, 25 are in arithmetic progression, then what is the value of a ?	20	18	22	21
11	A man buys two things at equal prize. One he sells at 10% profit and the other at 20% loss. What is his net profit/net loss in percentage ?	10% loss	10% profit	5% loss	15% loss
12	Find the lowest number when difference between two numbers is 4 and difference between their squares is 32 ?	6	4	8	2
13	If the numbers from 3 to 45 which are exactly divisible by 3 are arranged in descending order, which would come at the eleventh place from the bottom?	27	30	33	36
14	A tank is normally filled in 10 hrs by an inlet tap. But the tank has a leakage which drains out the full tank in 20 hrs. If the inlet tap is open with water simultaneously spilling out through the leakage how long will it take to fill the empty tank?	15 hrs	20 hrs	25 hrs	40 hrs
15	What will be the maturity amount if Rs.1000 is invested at the rate of 100% compound interest for two years ?	10000	2000	6000	4000
16	The ratio of three numbers is 1:2:5and the sum of their squares is 3000. What is the sum of the numbers?	80	10	120	None of these
17	If radius of a circle be doubled, its its area will be ?	2 times	4 times	8 times	halved
18	Ravi covers a distance of 36 km in 8 hrs, what is the average speed per hour?	2.25 km/hr	4.5 km/hr	5.75 km/hr	9 km/hr
19	Hari can row at a speed of 4km/hr in still water. How long will he take to row upstream 6 kms and then downstream 6 kms in a current with velocity/speed 2 km/hr?	3 hrs	4 hrs	5 hrs	6 hrs
20	A spends 20% of his monthly salary on his children's education and 50% of his salary on food and transport. After paying the rent of Rs.1000, he is left with Rs.2000. What is his monthly salary?	7000	10000	14000	20000
21	$sec^2 42 - tan^2 42$ = ?	$cosec^2 42$	$cos^2 42$	0	1
22	After a discount of 20% , the price of a blanket is Rs.720. What was its price before discount?	1000	800	1200	900
23	Clock A runs 20 minutes faster than Clock B in one hour. The present time shown in Clock A is 1 P M & Clock B is 3 P M. At what time both the Clocks will show equal time?	6.00 P M	8.00 P M	9.00 P M	10.00 P M
24	If 29th November 2010 is Monday, what day will be 16 th December 2010?	Tuesday	Wednesday	Thursday	Friday
25	$(3x + 2y)^2 = 9x^2 + $ ------- $+ 4y^2$?	12xy	6xy	$12x^2 y^2$	$6x^2 y^2$
26	36 / 0 = ?	36	1	0	Not Defined
27	A is half of age of B. B is half of age of C. D is 1/4 th age of C. then which of the following is correct?	Age of A & C are Equal	Age of B & D are Equal	Age of A & D are Equal	Age of B & C are Equal
28	Ram walks 5 km towards north from A. From there he walks 10 km towards the east. From there he walks 15 km to the south. From there he walks 20 km to the west and from there 10 km to the north. At present Ram is at ?	A	10 km west of A	15 km South East of A	10 km South of A
29	A (0,5) , B (0,-1) then what is the distance from A to B ?	4	5	6	7
30	If A,B & C earn Rs.300 per day while A & C earn Rs.188 per day and B & C earn Rs. 152 per day, what is C's per day earning?	Rs. 100	Rs. 20	Rs. 80	Rs. 40
31	The cost price of 15 balls is the same as the selling price of 12 balls. What is the profit percentage in the transaction ?	20%	25%	50%	33-33%
32	What is the HCF of 24, 36 & 48 ?	2	36	12	6
33	Two trains approach each other at 60 km/hr and 45 km/hr from stations A & B, which are 525 km apart. How long will it take them to meet each other?	4 hrs	5 hrs	6 hrs	8 hrs
34	$64^2 - 36^2$ = ?	2800	784	1568	5600
35	What is the longest chord passing through the centre of a circle ?	perimeter	diaphrom	diameter	circumference
36	1 + 2 + 3 + 4 + 5 + 6 + -------------------------------- + 30 = ?	930	1350	465	999
37	100,95,90,--------- - which is the 20th term?	0	5	10	15
38	1/2 + 1/6 + 1/12 + 1/20 +1/30 = ?	1	5.00/6.00	6.00/5.00	5.00/30.00
39	Rekha is the mother of Jaya and is 4 times older than Jaya. Rekha is 10 years younger than her husbnad Reghu who is 12 years older than his brother Prabhu. If Prabhu is 30 years old what is Rekha's age?	7	8	9	10
40	15 men can do half the work in 20 days. In how many days will 20 men do the full work?	15 days	18 days	10 days	30 days
41	1/ax = ?	(- ax)	a^{-x}	a^x	xa
42	Prism having all faces as square ?	Hectagon	Sphere	Semi Circle	Cube
43	Who among the following is a famous Tamil mathematician?	C V Raman	Ramanujam	Raja Ravi varna	Swathi Thirunal
44	If n(A) = 3,n(B) = 4, then n(AxB) = ?	12	7	81	256
45	$p (x) = x^3 + 3 x^2 - 5x + 7$, then p(0) = ?	4	5	6	7
46	1/3 rd of 2/5 th of 1/4 of a number is 100.Then what is the number ?	1500	2000	3000	6000
47	Solid having no edge ?	Pyramid	Cube	Square	Sphere
48	What is the sum of the angles in a triangle in degrees ?	0	90	180	360
49	If the area of a square is 9604 m^2 , then what is the side of the square ?	90 m	98 m	100 m	102 m
50	What is the volume of a cardboard box of length 1.5 m, breadth 25 cm and height 15 cm ?	45000 cm^3	65250 cm^3	56250 cm^3	99999 cm^3