VII CLASS

1. The value of the 1) 1664			Arabic System is 4) 1566	
	hen $(2x + 3y)$: $(3x + 2)$ 12: 20	$(x + 2y) = \dots$ 3) 3 : 4	4) 12 : 13	
3. If the mean of 8	3, 9, 11, p, 16 and 2 2) 13	21 is p, then p = 3) 14	 4) 15	
4. If each side of a of 1) 24	cube is doubled, how 2) 3	w many times the surrous 4	face area will increase 4) 6	
5. If a polygon of	n - sides has 35 di	agonals, then 'n'	=	
1) 10	2) 11	3) 12	4) 9	
6. Sum of the first 1) 2500	50 even natural nu 2) 2550		4) 2650	
		8% marks to pass. If um mark of the test 3) 600	Ravi gets 283 marks is 4) 1000	
8. The Median of	$15\frac{2}{3}$, 15.03, 15, $15\frac{1}{3}$ a	nd 15.3 is		
1) 15	3	3) $15\frac{1}{3}$	4) 15.3	
9. Salary of A is 50	% more than that o	of B. How much perc	eent is B's below A's.	
1) 25%	2) 35%	3) 34%	4) $33\frac{1}{3}\%$	
10. If $x + \frac{1}{x} = \frac{17}{4}$ the	e value of $x - \frac{1}{x} = .$			
1) $2\frac{3}{4}$	2) $3\frac{1}{4}$	3) $3\frac{3}{4}$	4) 0	
11. a, b, c, d are positive integers. If $a + b + c = 40$, $b + c + d = 35$,				
c + d + a = 30 1) 45	and $d + a + b = 4$ 2) 55	5, then $a + b + c + 3$ 3) 50	4) 40	

_	71.1.1VI.La IVIatiis St	morarship Engrothty Test	-2017	Class VII
	$12. 2^3 + 3^3$ is divisib	ole by		
	1) 2	2) 3	3) 5	4) 6
	13. If you are given	4 matchsticks of size 1	1cm, 2cms, 3 cms ar	nd 4cms how many
	triangles you ca	an form using three stic	eks at a time.	
	1) 0	2) 1	3) 2	4) 3
	14. The units digit i	in the simplification of	2 ¹⁵¹ .	
	1) 2	2) 4	3) 8	4) 1
		a 3b 45, 'a' is the largest	_	
	1) 9800	2) 181	3) 197	4) 191
	16. If $a + \frac{1}{b + \frac{1}{c}} = \frac{27}{4}$	then $(a + b + c)^2 = \dots$		
	1) 81	2) 100	3) 121	4) 144
	17. A rational numb	per between $\frac{2}{3}$ and $\frac{3}{5}$ is.		
	1) $\frac{13}{45}$	2) $\frac{23}{45}$	3) $\frac{19}{30}$	4) $\frac{19}{45}$
	18. No. of divisors	of $2^3 \times 3^5 = \dots$		
	1) 15	2) 16	3) 18	4) 24
		data is 9. If each observ the new Mean is		nultiplied by 3 and
	1) 9	2) 18	3) 27	4) 28
	20. 2 ⁴ⁿ - 1 is always	s divisible by		
	1) 2	2) 17	3) 15	4) Both 2 and 3
	21. How many squ	uares are there in the fig	gure in total.	
	1) 16	2) 14	_	
	3) 15	4) 13	-	

22. Sum of the reciprocal	s of all prime divisors	s of 30.	
1) $\frac{5}{6}$	2) $2\frac{1}{15}$	3) $1\frac{1}{30}$	4) $\frac{8}{15}$
23. In a division dividend Then which of the follo		uotient is 'r' and rema	inder is 's'.
	•	3) p = q r s	4) p = q s + r
24. Logarithms and decim	nal fractions were intro	oduced by	
1) Aryabhtta	2) C.R.Rao	3) John Napier	4) Archimedis
25. Given that A: B = 2: and C. What amount w		Rs. 700/- is shared an	nong A, B
1) Rs. 120	2) Rs. 160	3) Rs. 240	4). Rs. 300
26. 12 men can complete a v	vork in 15 days. In how	many days 10 men can o	do the same work.
1) 12	2) 13	3) 18	4) 9
27. If the cost price of 12	_	the selling price of 15	mangoes,
then the percentage of		2 25 1 2/	1
1) 20%	2) 25%	3) $25\frac{1}{2}\%$	4) $33\frac{1}{3}\%$
28. A pie chart consists of	·		
1) Circles	2) Triangles	3) Rectangles	4) Sectors
29. The date of 112 th day	in any leap year.		
1) 22 nd April	2) 21 st April	3) 20 th April	4) 21 st May
30. The book "The Theo	ory of Estimation" was	s written by	
1) Aryabhtta	2) C.R.Rao	3) John Napier	4) Archimedis
31. Kaprekar constant is			
1) 6174	2) 6714	3) 7164	4) 6176

32.	The value of $0.\overline{2}$ +	$0.\bar{3} + 0.\bar{4} = \dots$				
	1) 0.9	2) 9	3) 1	4) 2		
33.	33. If the ratio of diameters of two circles is 3:4; then the ratio of their circumferences i					
	1) 9:16	2) 27:64	3) 3 : 4	4) 16 : 9		
34.	. Observe the patter first 50 rows.	rn of circles in rows ar	nd find the total nu			
		2) 10.000		0 0 0		
	1) 5000			0 0 0 0 0 0 0 0 0 0 0		
	3) 2500	4) 5500	••••••			
35.	. The period of Arya	abhatta is				
	1) 475 - 550 AD	2) 550 - 475 BC	3) 475 - 555 AD	4) 1550 - 1617AD		
36	_	f an isosceles triangle an integer. How many 2) 12		_		
 37.	. Mode of the data	12, 15, 12, 11, 15, 12,	15 and 10 is			
	1) 11	2) 12	3) 15	4) Both 2 and 3		
38		tween two positive int , the smaller number is	_	maller of the two		
	1) 30	2) 6	3) 15	4) 18		
39	$x^{-1} = 4^{-1} + 5^{-1}$ then	ı 'x' =				
	1) $\frac{1}{9}$	2) $\frac{9}{20}$	3) $\frac{20}{9}$	4) $\frac{9}{11}$		
40. If a, b, c are in continued proportion then $c = \dots$						
	1) $\frac{b}{a}$	(2) $\frac{a}{b}$	$(3) \frac{b^2}{a}$	$(4) \ \frac{a^2}{b}$		

- 41. At what rate per annum, will a principle 'p' triples in 16 years on simple interest
 - 1) 10%
- 2) $12\frac{1}{2}\%$
- 3) 12%
- 4) $8\frac{2}{3}\%$

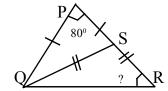
- $42.(1111)^2 = ?$
 - 1) 1234321
- 2) 1234121
- 3) 1234211
- 4) 1243321

- 43. In the diagram given $\overline{PQ} = \overline{PS}$ and $\overline{QS} = \overline{SR}$ and $\angle P = 80^{\circ}$. $\angle QRS = ?$
 - 1) 45°

 $2) 25^{0}$

 $3) 35^{0}$

4) 30°



- 44. At a particular time of a day a tree of height 5 mts casts a shadow of 8 mts long. What will be the height of a pole if its shadow is 16 mts long at the same time.
 - 1) 10 mts.
- 2) 6 mts.
- 3) 8 mts.
- 4) 12.8 mts.

- 45. H.C.F. of 1.08, 0.36, 0.9 is
 - 1) $\frac{8}{9}$

- 2) $\frac{9}{10}$
- 3) 0.09
- 4) 0.009
- 46. The lateral surface area of a cube is 64 cm². The length of its space diagonal is ..
 - 1) 4 cm
- 2) $6\sqrt{3}$ cm
- 3) $4\sqrt{3}$ cm
- 4) $4\sqrt{2}$ cm
- 47. A shop keeper marks his goods 25% above the cost price and allows 12% discount what is his gain percentage.
 - 1) 10%
- 2) 12%
- 3) 15%
- 4) 11%

- 48. The Mean of first 5 odd primes.
 - 1) 5.8

- 2) 7.8
- 3) 7.5
- 4) 5.5
- 49. If 4 a b 5 is a four digit number divisible by 55 then b a 1 = ?
 - 1) 0

2) 1

- 3) (-1)
- 4) 2
- 50. The GCD and LCM of two numbers 'a' and 'b' are 27 and 2079 respectively. If 'a' is divided by 9, the quotient is 21. Then 'b' =
 - 1) 243
- 2) 189
- 3) 297
- 4) 397

51. The Mean of 20 observations is 12.5. By an error one observation is registered as 15 instead of 45. What is the correct Mean.

- 1) 13.5
- 2) 12.5
- 3) 14
- 4) 14.5

52. A bag contains Rs. 220/- in the form of Re. 1, 50 Ps. and 10 Ps. coins in the ratio 3:4:5, number of 50 Ps. coins in the bag is

1) 120

- 2) 80
- 3) 160
- 4) 200

53. The area of the largest possible square inscribed in a circle of unit radius.

1) 2

2) 4

- 3) 2π
- $4) \pi$

54. Some students are in the ground. Half of them are playing cricket, one fourth are playing tennis, one eigth are playing chess and the remaining 24 are taking rest. Total number of studens are ..

1)192

- 2) 96
- 3) 220
- 4)195

55. A man travels a certain distance at a speed of 24 kmph and returns to the original place with a speed of 36 kmph. What is his average speed.... kmph

1) 26

- 2) $28\frac{4}{5}$
- 3) $26\frac{1}{2}$
- 4) $26\frac{2}{3}$

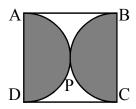
56. ABCD is a square of side 14 cms. APD and BPC are semi - circles. The area of the part which is not shaded in square cms is

1) 32

2) 42

3) 22

4) 22.5



57. A seller buys a book for Rs. 165/- and sells it for Rs. 176/-. His profit percentage is

- 1) $6\frac{1}{2}\%$
- 2) $6\frac{2}{3}\%$ 3) $8\frac{1}{3}\%$
- 4) $8\frac{2}{3}\%$

58. $\frac{1}{1\times 2} + \frac{1}{2\times 3} + \frac{1}{3\times 4} + \dots + \frac{1}{2017\times 2018} = \dots$

- 1) $\frac{2017}{2018}$ 2) $\frac{2018}{2017}$
- 3) 4035
- 4) 1

59. $(a-1)^2 + (b-2)^2 + (c-3)^2 + (d-4)^2 = 0$ then $a+b+c+d = \dots$ 1) 0 2) -10 3) 9 4) 10

- 60. Father of Indian Statistics.
 - 1) Bhaskaracharya 2) P.C. Mahalanobis 3) Ramanujan 4). Arayabhatta