				(4)		
38.	An equilate	ral ABC is	inscribed	l in a circle	with centre O. If AO, BO & CO are	
	drawn then	∠AOB is ed	qual to			
	a) 60°	b) 30°	C) 120°	d) 90°	
39.	The square of a rational number is					
	a) positive			b) greater than the number		
	c) always even			d) both a &b above		
40.	The square	root of 1672	81 is			
	a) 49	b) 490		c) 409	d) 94	
11.	If n is a non-perfect squre number then \sqrt{n} is a/an					
	a) rational number			b) positive integer		
	c) irrational number			d) none of the above		
12.	The value o	f ₹0.00064	is			
	a) 0.0008			c) 0.0	4 d) 0.08	
13		$f\sqrt{5}\times\sqrt{5}\times\sqrt{5}$				
					i) none of the above	
	The sum of three consecutive odd numbers is 12 more than the first number.					
	What is the	middle numb				
	a) 1	b) 3		5		
5.	Cube root of the product $3\times(-1)\times(-3)\times3\times(-1)\times(-3)\times(-1)\times(-3)$ is					
	a) -3				d) none of the above	
6.	a+b and $a-b$				difference in their areas will be	
	a) 2ab			$(2a^2b^2)$		
					still gain 25%. What is the cost	
	price if the	marked price				
	a) Rs. 90	b) Rs. 7			d) Rs. 100	
					r two years @ 5% compounded	
		ind the sum				
					00 d) Rs. 20000	
		e following i				
	a) $P = \frac{RT}{I}$	b) $P = \frac{2 \times (1)}{(100)}$	(0)° C	$P = \frac{(100+r)}{A}$	d) none of the above	
0.	Square root	of 0.000529	is			
	a) 230			c) 0.023	d) 0.23	
		Т	he Ends			

18th STATE LEVEL COMPETITION - 2017

ORGD, BY: THE UNITED DEVELOPMENT ASSN. (UDA) KHANGABOK H.O. KHANGABOK, THOUBAL (MANIPUR)

Regd. No. 3/SR/TH/1999

CLASS-VIII (MATHS.)

Time: 11/2hrs.

INSTRUCTION:

There are \$3 questions with four alternatives of which one is the correct irrost appropriate answer. Each question carry 2 marks. The correct/most appropriate choice should be marked in the answer sheet with a ball point pen only, by darkening

the circle coresponding to the correct choice. If any candidate is found using unfair means of any kind, he/she shall be expelled from the test without any prior warning.

Using any calculator/mobile phone etc. is strictly prohibited in exam. hall. The decision of the Association with regard to the conduct of the Examination shall be final and binding to the candidate.

1. Which of the following is an odd perfect square? a) 123454321 b) 3 3. $(n+1)^2-n^2$ is equal to

lass-VIII Math

b) 1721 c) 9000 d) 4096

2. A perfect square leaves a remainder 0 or 1 on division by d) 3 or 4 c) 4

d) 2n-1 a) (n-1)+n b) (n+1)-n c) (n+1)+nWhich of the following is correct? (Where a=b+1)

d) $a^2+b^2=a-b$ b) $a^2 + b^2 = a + b$ c) $a^2-b^2=a+b$ a) $a^2 - b^2 = a - b$ 5. If the digits equidistant from the begining and end are the same, the number is called

b) perfect square c) recurring d) palindrome 6. Find the least number by which 1200 must be multiplied so the product becomes a perfect squre.

a) 2 b) 3 c) 4 d) 5

7. The square root of the numbers 27225 and 252004 will of how of many digits? c) 3 and 3 d) can not say a) 2 and 3 b) 3 and 4

8 Find the least number that must be added to 56789 in order to obtain a perfect square. b) 332 c) 613 d) none of the above

a) 145 9 Find the smallest number by which 3645 must be multiplied so that the product is a perfect cube.

c) 25 a) 5 b) 15 d) 20

10. The value of $\sqrt{75} \times \sqrt{27}$ is : a) 45 b) 75 c) 63 d) 54

11. While selling 180 plastic toys, James lost the selling price of 20 toys. Find the loss percent. b) 6% c) 10% d) none of the above a) 20%

Turn Over

is the gain percent.

21. Which of the following is a factor of $2x^5+x^4+1$

b) ax+b=cx+d

his son's age. How old is the man and his son now?

b) 45.15

c) will pass through 1st & 3rd quadrant

c)x+2

22. Which of the following do not represent a linear equation in one variable?

23. A man was 30 years old when his son was born. Five years ago his age was 4 times

24. For any equation of the type y = mx where m is any non zero positive integer,

c) 35.5

b) x-1

a) x+I

a) x+a=b

a) 15.45

the graph will be

a) a straight line

d) x-2

d) none of the above

Turn Over

d) 5.35

b) will pass through origin

d) all the above

c) $\dot{=} = b$

Class-VIII

25. If a line intersects two parallel lines then the angles between the parallel lines which are on the same side of the intercept are called

a) alternate angles c) corresponding angles

d) co-interior angles 26. The sum of a pair of co-interior angles is found to be $2x+30^\circ$. The value of x is c) 75° d) 105° a) 30° b) 55°

b) interior angles

d) rectangle

27. AB is a line segment of length 6.4cm, C is a point on AB such that AC:CB = 3:5 then the difference between AC and CB is

b) 0.7cm c) 1.6cm d) 0.8cm a) 2cm

28. The diagonals are equal and bisect each other in a c) parallelogram b) rhombus a) trapezium

29. Diagonals bisect each other at 90° in a c) rhombus d) a and c above

a) square b) rectangle 30. Opposite sides are equal; opposite angles are equal and diagonals are equal and

bisect each other at 90°, then the quadrilateral is d) none of the above c) parallelogram b) rectangle a) square 31. If / ABC of a rhombus ABCD is 60° then A ABC is

d) none of the above a) isosceles b) equilateral c) scalene

32. In a parallelogram ABCD, \angle B= $(2x+15)^o$ and \angle C= $(3x-20)^o$. Then the value of x is c) 35° d) 40° b) 20° a) 15°

33. In a circle of radius 5cm with centre at O, BC is a chord and BOC=30°. If D is any point on the major arc of the circle then BDC is equal to d) 45° b) 60° c) 15° a) 30°

34. Equal chords of a circle subtend angles at the centre with

b) different measure a) same measure d) none of the above c) neither a nor b

35. A circle can be drawn touching all the vertices ABCD of a quadrilateral, then which of the following is false?

b) /A = Ca) ABCD is a cyclic quadrilateral

c) / B + D = 180° d) none of the above

36. In a ircle of radius 5cm with centre at O, AB is a chord with OC perpendicular to AB and is of length 3cm. Then the length of AC is d) none of the above

c) 5cm a) 3cm b) 4cm 37. ABCD is a cyclic quadrilateral and AC is a diagonal with BAC=45° and

∠ACB=65° then ∠ADC is equal to a) 70° b) 110° c) 65° d) 45°

Turn Over