

SRI RAMANUJAM MATHS & SCIENCE
CREATIVE EXAM
WEAVE FOUNDATION, VIJAYAWADA - 4.
(2001 - 2002)
CLASS - VII



Hall Ticket No. _____

Name : _____

Father Name : _____

School Name : _____

Time $1\frac{1}{2}$ Hour Centre _____

Marks : 100

మీరు చదువుతున్న పాఠశాల పూర్తి అధ్యయన (వెనుక పేజీలో) Maths & Hindi Teachers Names తప్పక వ్రాయవలెను. 2. కరెక్ట్ అన్సర్ గల వెంబరును కలముతో గుండని ఆకారంలో దిద్దవలెను. ఉదా : ① ② ③ ④

- If $x + \frac{1}{x} = 3$ then $x^2 + \frac{1}{x^2} =$
 ① 17 ② 26 ③ 7 ④ 37
- $\sqrt{a^{-1}.b} \times \sqrt{b^{-1}.c} \times \sqrt{c^{-1}.a}$
 ① a^2 ② a^0 ③ $2a^2b^2$ ④ $3abc$
- If $\sqrt{144} = 12$ then $\sqrt{0.0144}$
 ① 0.12 ② 0.012 ③ 0.0012 ④ 12.00
- The sum of the numbers between 1 and 100 that are divisible by 9 is
 ① 1594 ② 1394 ③ 594 ④ 549
- If $3^{x+2} = 1$ then value of $x =$
 ① -2 ② +4 ③ -12 ④ 40
- If the side of a rhombus is 17cm and one of the diagonal is 30cm, Length of the other diagonal is
 ① 8 ② 16 ③ 32 ④ 40
- Area of Isosceles right angle triangle of sides 'a' (interms of its hypotenuse 'd')
 ① d^2 ② $\frac{d^2}{2}$ ③ $\frac{d}{2}$ ④ $\frac{d^2}{4}$
- In a ΔABC , $b^2 = a^2 + c^2$ then _____ is a right angle
 ① $\angle A$ ② $\angle B$ ③ $\angle C$ ④ None
- The average of 9, 11, 13, P, 18, 19 is P then the value of P
 ① 144 ② 70 ③ 24 ④ 14
- The average marks secured by 36 students was 52. But it was discovered that an item 64 was misread as 46, then correct mean of marks is _____
 ① 51.5 ② 61.5 ③ 71.5 ④ 81.5
- If $(a^m)^n = a^{m^n}$ then $m =$ _____
 ① n^{n+1} ② $\frac{n-1}{n^2}$ ③ $n^{\frac{1}{n-1}}$ ④ $n^{\frac{1}{n+1}}$
- $(a^{1/3} - b^{1/3})(a^{2/3} + a^{1/3}.b^{1/3} + b^{2/3}) =$ _____
 ① $a - b$ ② $a + b$ ③ $a^3 + b^3$ ④ $a^2 - b^2$
- $(0.001)^{1/3} =$ _____
 ① $\frac{1}{100}$ ② $\frac{1}{10}$ ③ $\frac{1}{1000}$ ④ 10
- Value of $16^{0.5} =$ _____
 ① 4 ② 16 ③ 0.5 ④ 8
- The union of two rays having a common end point is known as _____
 ① Straight line ② Point
 ③ Degree ④ Angle
- Quotient of $2x^3 - 3x^2 + 2x - 1$ is divided by $(x-1)$ is
 ① $x^2 + x + 4$ ② $x^2 - x + 1$ ③ $2x^2 + 1$ ④ $2x^2 - x + 1$
- Coefficient of x^2 in the product $(x+1)(x+2)$ is _____
- If $x^a = x^{5a-8}$ then $a =$
 ① 2 ② 12 ③ 92 ④ 32
- $\frac{(2a^2 b^3)^4}{(ab)^3} =$ _____
 ① $2ab^9$ ② $2a^{15}.b$ ③ $2a^5b^9$ ④ $2a^5b^5$
- $(3^2)^3 + (3^2)^2 =$ _____
 ① 109 ② 81 ③ 19 ④ 9
- If $2^m = 256$ then 2^{2m-5} is
 ① $2^{10} \times 2^{-1}$ ② $2^{11} \times 2^0$ ③ $2^{12} \times 2$ ④ $2^8 \times 2^6$
- The diagonal of a square is 6cm, its area is
 ① 14 ② 28 ③ 18 ④ 36
- The diagonals of a Rhombus are 9cm, 12cm its perimeter is _____
 ① 30 ② 54 ③ 67 ④ 96
- The ratio of the sides of a triangle whose angles are $45^\circ, 45^\circ, 90^\circ$ is
 ① 1:1:1 ② 1:1: $\sqrt{2}$ ③ 1:1:2 ④ 1:2: $\sqrt{3}$
- Number of Independent measurements are required to construct a trapezium is > _____
 ① 3 ② 5 ③ 4 ④ 2
- The point of concurrence of the angle bisectors of a triangle is called _____
 ① Circumcentre ② Incentre
 ③ ortho centre ④ centroid
- Centroid divides the median of a triangle in the ratio of (starting from the vertex) is
 ① 1:1 ② 1:2 ③ 2:1 ④ 3:2
- 72° and $\angle B$ are a pair of supplementary angles then $\angle B =$ _____
 ① 90° ② 100° ③ 118° ④ 108°
- $\sqrt{2^x} = 64$ then $x =$ _____
 ① 24 ② 9 ③ 6 ④ 12
- ABCD is a parallelogram in which $\angle A = x + 20$ and $\angle C = 3x - 10^\circ$ then $x =$ _____
 ① 15 ② 20 ③ 35 ④ 30
- Length of arc of sector is 18cm and the radius of sector is 7cm then its area is
 ① 126cm^2 ② 63cm^2 ③ 16cm^2 ④ 90cm^2
- Area of four walls of a room 12 mt \times 8 mt \times 5 mt is
 ① 200mt^2 ② 1200mt^2 ③ 480mt^2 ④ 125mts
- $(a^{-1} + b^{-1})^0 =$ _____
 ① 0 ② 1 ③ -1 ④ 2
- Given $A = 2196$; $P = 2500$; $n = 2$ from the