## RAJIV VIDYA MISSION (S.S.A) ANDHRA PRADESH

## SUMMATIVE ASSESSMENT -2 (MODEL PAPER) - JAN - 2013

## MATHEMATICS

## (ENGLISH MADIUM)

VIII CLASS
NAME OF THE STUDENT $\qquad$

| Educatio <br> n | Problem Solving |  |  |  |  | Reasoning And Proof |  |  |  |  | Communication |  |  | Connections |  |  |  | Representatio n <br> 3 | Total Subjec t Grade |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Question Number | 1 | 5 | 6 | 7 | 17 | 2 | 8 | 9 | 10 | 18 | 11 | 12 | 13 | 4 | 14 | 15 | 16 | 3 |  |
| Question Wise Grade |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Educatio n <br> Standard Grade |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## I Solve the following

1) Find the solution sets of the following systems of equations

$$
\begin{aligned}
& 5 x+3 y=11 \\
& 3 x+5 y=13
\end{aligned}
$$

2) A trader sells two cycles at Rs 1188 each and gains $10 \%$ on the first and loses $10 \%$ on the second.

Find his profit or loss percent on the whole?
3) Shade the region on a graph paper which represents the solution set of the following inequation

$$
x>0 ; y>0 ; 2 x+3 y=6
$$

4) The area of a circular grass field is 2464 sq.m. Find the cost for leveling the circular path width 1 m . laid outside it at a cost of Rs. 1.85 per sq. m.

II Solve the following
5) The area of a square is 4 hectares. Find the length of its side?
6) If $\mathrm{a}: \mathrm{b}=\frac{3}{5}: \frac{5}{7}$ and $\mathrm{b}: \mathrm{c}=\frac{3}{4}: \frac{2}{5}$ find $\mathrm{a}: \mathrm{b}: \mathrm{c}$ ?
7) $x^{2}-8 x+15$ Resolve into factors
8) $\overline{3}$ is an irrational number and $\overline{27}$ is an irrational number. So $\overline{3} x \overline{27}$ is an irrational number. Is this true? Why?
9) In a class of 26 students 8 members take tea, but not coffee. And 16 members take tea, find the Numbers of students take coffee only?
10) $\{1,2,3, \ldots 10\} \neq\left\{{ }^{x} \quad x \in N\right.$ and $\left.1<x<10\right\}$, state the reason?
11) Name the property indicated by the following example
a) $\frac{8}{5} \times\left(\frac{2}{3}+\frac{3}{5}\right)=\left(\frac{8}{5} \times \frac{2}{3}\right)+\left(\frac{8}{5} \times \frac{3}{5}\right)$
b) $528+372=372+528$
12) Area of trapezium $=\frac{1}{2}(a+b) h$. In this formulae what denotes $a, b$ and $h$ ?
13) Express the following in the exponential notation
a) 1296
14) If ' $A$ ' is the set of prime numbers less than 20 and ' $B$ ' is the set of whole numbers less than 10 , Then find $A \cap B$ ?]
15) If $2^{n}=64$, find the values of $2^{n+2}, 2^{n-3}$
16) If $x+y=7, x y=12$ find the value of $x^{2}+y^{2}$

## OBJECTIVE TYPE QUESTIONS

17) Fill in the blanks
18) The amount in 2 years of premium Rs. 800 at the rate of $5 \%$ is $\qquad$
19) If the side of a square is 10 cm . then the perimeter is $\qquad$
20) Express 24 as the product of prime factors $\qquad$
21) G.C.D of 30 and 45 is $\qquad$
22) Choose the correct answer from the given multiple choices
23) If $4: 9=x: 63$ then $x=$
()
a) 36
b) 72
c) 28
d) 35
24) In a $\triangle A B C$, If $\mathrm{AB} \perp \mathrm{AC}$ then hypotenuse is ()
a) $A B$
BA
c) $A C$
d) None of these
25) If $(-1)^{n}=y, n$ is an even number then $y=$ $\qquad$ ( )
a) $1 \quad$ b) $-1 \quad$ c) 0 d) 2
26) $(a+b)^{2}-(a-b)^{2}=$ $\qquad$ ()
a) $4 a b \quad$ b) $-4 a b \quad$ c) $a^{2}+b^{2}$ d) 0
27) Match the follOwing
28) A straight line divides the
( ) a. 1

Plane into $\qquad$ number of set of points
2) Number of factors of $x^{4}+3 x^{2}+2 \mathrm{x}+1 \quad$ ( ) b. 2
3) If $2 x+3=13$ then $x=$ ( ) c. 3
4) G.C.D oh co prime numbers is ( ) d. 4
( ) e. 5

