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

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

MATHEMATICS

(ENGLISH MADIUM)

VIII CLAS	S	Т	TIME 2 ½ hrs			
NAME O	THE STUDENT			F	OLL NO	
Educatio	Problem Solving	Reasoning And	Communication	Connections	Representatio	Total

Educatio n Standard	Pr	oble	m So	olvin	g		asor oof	ning	And		Com	munica	ation	Co	nnect	ions		Representatio n	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 Standard Grade																			

I Solve the following

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

$$5x + 3y = 11;$$

$$3x + 5y = 13$$

- 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; 2x + 3y = 6
- 4) The area of a circular grass field is 2464 sq.m. Find the cost for leveling the circular path width 1m. 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
$$a:b=\frac{3}{5}:\frac{5}{7}$$
 and $b:c=\frac{3}{4}:\frac{2}{5}$ find $a:b:c$?

- 7) $x^2 8x + 15$ 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,...10} \neq { x $_{x}$ ϵ N and 1 < x < 10}, state the reason?
- 11) Name the property indicated by the following example

a)
$$\frac{8}{5}$$
 X ($\frac{2}{3}$ + $\frac{3}{5}$) = ($\frac{8}{5}$ X $\frac{2}{3}$) + ($\frac{8}{5}$ X $\frac{3}{5}$)

- 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∩B?]
- 15) If $2^n = 64$, find the values of 2^{n+2} , 2^{n-3}
- 16) If x + y = 7, xy = 12 find the value of $x^2 + y^2$

OBJECTIVE TYPE QUESTIONS

17) Fill in the blanks

- 1) The amount in 2 years of premium Rs. 800 at the rate of 5% is _____
- 2) If the side of a square is 10 cm. then the perimeter is _____
- 3) Express 24 as the product of prime factors ______
- 4) G.C.D of 30 and 45 is _____
- 18) Choose the correct answer from the given multiple choices
- 1) If 4:9 = x:63 then x= ()
 - a) 36 b) 72 c) 28 d) 35
- 2) In a $\triangle ABC$, If AB \perp AC then hypotenuse is ()
 - a) AB b) BA c) AC d) None of these
- 3) If $(-1)^n = y$, n is an even number then $y = \underline{\hspace{1cm}}$
 - a) 1 b) -1 c) 0 d) 2
- 4) $(a+b)^2 (a-b)^2 =$ _____ ()
 - a) 4ab b) -4ab c) a^2+b^2 d) 0
- 19) Match the following
 - 1) A straight line divides the () a. 1

Plane into $_$ number of set of points

- 2) Number of factors of x^4+3x^2+2x+1 () b. 2
- 3) If 2x+3=13 then x = () c.3
- 4) G.C.D oh co prime numbers is $$(\)\ d.\ 4$

() e. 5