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***EXAM:BASIC MATHSMATICS***

***Question No.1***

i The solutions of  are (a)   (c)  (d) only ***(e)*** None of them 

ii The equation shows (a) Linear cost function ***(b)***Linear profit function (c) Linear revenue function (d) None of them

iii The sum of two numbers is 40 and difference is 20 then the numbers are = (a) (33,10) (B)(30,10) (c) (60,30) (d) 53 (e)None of them

iv 

(a)  (b) 10 (c) 11.2(d) 41 (E)None of them

V A stair make an angle of inclination  with the horizontal then its slope is

(A) ( b )  (c)  (d) None of them

VI If  and then  is

(a)  ( b)  (c)  (d) (E) None of them

Vii The domain of a curve is (a)  (b )  (c)  (d)  (E) None of them

Viii  (a) 36 (b) -4 (c) 4 (d) 0 (E) None of them

Ix A painter can paint 200 wall in 10 hours. Then the time required to paint 2000  wall will be.

is (a) 60 hours(b) 90 hours (c) 30 hours (d) 50 hours (E)None of them

X If  of cost price  is equal to 50% of sale price then the sale price will be

(a)  (B) (c)  (d) None of Them

***END***

***Question NO 2 (a)***

***Solution:***

Age of girl= x

Age of brother= y

\_\_\_\_ (1)

2 years ago her age was three times of her brother



***Subtracting (1) and (2)***

**



y= 6 put in (1)

age of brother = 6



Age of girl = 14

***QUESTION 2 (B)***

***SOLUTION:***

Cost price = $12

Markup= $7.20

Mark up = selling price – cost price

Selling price =markup + cost price

Selling price =7.20$+12$

Selling price =19.20$

Now

Mark up %= ?

Mark up%= 

= 

= 

Mark up= 60%

END

***Question no 3 (a)***

***Answer***





Using Exponential law









 ANSWER

END

QUESTION NO 3 (b)

Solution:



Taking log on the sides

Log = log 

Using log property



















Taking Anti log on both sides





Q4(a)



1. 







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From (i) and (ii)



**Q4(b)**

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**L.H.S**

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**R.H.S**

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From (i) and (ii)

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***Q5(a)***

List price=150$

Discount rate=20%

Discount=

=



Discount=30

Net Cost=List price-Discount

Net Cost=150-30

Net Cost =120

***Q5(b)***





Multiply (ii) by 10



Subtracting (ii) and (iii) we get







Put in (i)















END