National Education Society's High School
Bhandup (w) Mumbai – 400 078
II Sem Examination

Std: X /Div: | Sub–Arithmetic | Marks:25
Roll No: | No of Pgs-02 | Time:1Hrs
Date: 18.3.2019

Q1 A) Fill in the blanks (5)

i)$(a+b)^2 = a^2 + \_\_\_ + b^2$

ii)(hypotenuse)^2 = (base)^2 +(_____)^2

iii) Principal + Interest = _____

iv) Number of students and money collected are in _____ proportion.

v) An expression in which multiplication is the only operation is called _____.

B) State whether the statements are True or False (5)

i) The symbol $\sqrt{\ }$ is used for 'Square root'

ii) Perimeter of a square = 4 X side=

iii)$(a-b)^2 = a^2 - 2ab + b^2$ = _____

iv) Average = $\frac{\text{sum of all scores in the given data}}{\text{Total number of}}$ = _____

I Solve the following (10)

i)The daily rainfall for each day of a week in a certain city is given in millimeters. Find the average rainfall during the week.
9,11,8,20,10,16,12.

ii)Expand : $(5a+6b)^2$

iii) In the right –angled ΔPQR ∠P =90^0
If ℓ (PQ) = 24cm and ℓ(PR) =10cm. Find the length of Seg QR.

iv) A page of Calendar is 45 cm long and 20 cm wide. What is its area.

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Pg-1

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v) If Rihanna deposits 1500 in the school fund at p.c.p.a for 2 years, what is the total amount she will get?

II Solve the following : **(15)**

i)The cost of 12 quintals of Soyabcan is 36,000 rupees. How much will 8 quintals cost?

ii) Add:- 2a+6b+8c; 16a+13c+18b

iii)(12a+4b) X 4c

iv)5m – 4 = 1

v) 16xy X 18xy

III) Solve the following :- **(15)**

1) A matchbox is 4cm long , 2.5 cm broad and 1.5cm in height . Its outer sides are to be covered exactly with craft paper. How much paper will be required to do so?
2) If the circumference of a circle is 176 cm. Find its radius.
3) What is the area of a triangle with base 4.8 cm and height 3.6cm

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