Pitech Education

Case No. 7: Design the following set of math questions in a proper format.

**ARMY PUBLIC SCHOOL, GANGTOK**

**ANNUAL EXAMINATION (2022-2023)**

**SUBJECT: MATHEMATICS**

**Time: 3HOURS** **Class:VII** **F.M: 80**

**General Instructions:**

1. All question are compulsory.
2. Read all the questions properly.
3. Reading time is for 15 minutes.

1. **Choose the correct option form the following. (1x10=10)**

I) $(\mathbf{35^o + 20^o + 2})^{\mathbf{1}}\boldsymbol{is\ equal\ to}$

$a)\ 4,\quad b)\ 57\quad c)\ 10\quad d)\ 35^o$

II) $\boldsymbol{The\ measure\ of\ the\ supplement\ of\ 125^o\ is}$

$a)\ 55^o\quad b)\ 50^o\quad c)\ 45^o\quad d)40^o$

**III)** **The perimeter of a rectangle is**

$a)\ 2(I + b)\quad b)\ (I + b)\quad c)\ (2I + b)\quad d)\ (I + 2b)$

**IV)** **If p=-1, the value of $3p^2-2$ is**

$a)\ 3\quad b)\ 1\quad c)\ 5\quad d)4$

V) $\boldsymbol{If\ p = 2^{2x+1} = 2^4.than\ the\ value\ of\ X\ is}$

$a)\ 1\quad b)\ 2\quad c)\ 3\quad d)4$

2. **Complete the following:- (1x5=5)**

I) Area of a ring is _____

II) Circumference of a circle is _____

III) $x^m x \times\times x^p$= _____

3. **Classify True or False statements (1x5=5)**

I) Equations and expression are same

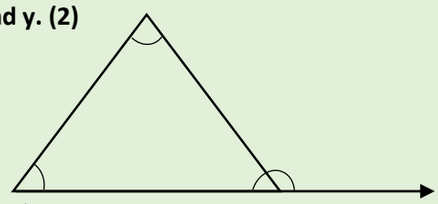
II) In equilateral triangle all sides are equal.

4. **Solve the following:- (2)**

I) $10 = 6(P - 2)$

II) $2y + \frac{5}{2} = \frac{37}{2}$

5. **Find the value of x and y. (2)**



6. **Simplify.** $\left[\left(\frac{3}{4}\right)^{-1} - \left(\frac{1}{4}\right)^{-1}\right]$

7. $\boldsymbol{3ab + 2ab + ca, -5ca + 2bc - 8ab, 3ab + 2)}$

8. **Find** $\boldsymbol{A + B, if\ A = 7x^2 + 5xy - 9y, B = -4x^2 - xy + 5y^2)}$