NALANDA V **Nalanda Vidyalaya – Colombo 10** DA VIDYALAYA
NALANDA VIDYALAY **Unit Test Project** NALANDA VIDYALAYA

| Grade 8 | Mathematics | Unit : 19 – Sets |

Part I

(1) Fill in the blanks. Use $\in$ or $\notin$ as appropriate.

A = {1, 2, 6, 7, 9}

i) 2 ……….. A   ii) 3 ……….. A   iii) 6 ……….. A

iv) 8 ……….. A   v) 9 ……….. A   vi) 11 ……….. A

(2) Rewrite the following set by listing all its elements within curly brackets.

i)   A = {The letters in the word ANURADAPURA}

(3) P = {prime numbers from 1 to 10}

i)   Write the elements within curly brackets.

ii) Write the value of n(p).

(4) Write down whether each of the following sets is the null set or not.

i)   A = {even numbers between 2 and 4}

ii) B = {provinces in Sri Lanka}

iii) C = {square numbers which are prime numbers}

iv) D = {prime numbers less than 20}

v) E = {multiples of 5 less than 5}

(5) Write the number of elements for each of the following sets.

i)   A = {multiples of 10 less than 3}

ii) D = { letters of the word PUDIKUDIRIPPUWA}

iii) P = {triangular numbers less than 20}

iv) M = {letters in English alphabet}

(6)   Write appropriate symbol from $\in$, $\notin$.

    i) 7 ……………   {multiple of 3}

    ii) 11 ……………   {a prime number}

    iii) V ……………   {vowel in English alphabet }

    iv) banana ……………   {a fruit }

(7)   i)   Write a set which has 4 elements.

    ii) Write 3 examples for null set.

    iii) {O} Is this a null set? Give the reason.

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