

## Aptitude Questions-1

(Source: Online Exam Mock Test provided by IITM)

1)

<i>Which of the following options is the closest in meaning to the word below:</i> <b>Exhort</b>	
<b>A.</b>	urge
<b>B.</b>	condemn
<b>C.</b>	restrain
<b>D.</b>	scold

2)

<i>The question below consists of a pair of related words followed by four pairs of words. Select the pair that best expresses the relation in the original pair.</i> <b>Preamble : Constitution</b>	
<b>A.</b>	amendment : law
<b>B.</b>	prologue : play
<b>C.</b>	episode : serial
<b>D.</b>	plot : story

3)

<i>Choose the most appropriate word from the options given below to complete the following sentence:</i> <b>The committee wrote a _____ report, extolling only the strengths of the proposal.</b>	
<b>A.</b>	reasonable
<b>B.</b>	supportive
<b>C.</b>	biased
<b>D.</b>	fragmented

4)

<i>Choose the most appropriate word from the options given below to complete the following sentence:</i> <b>If the country has to achieve real prosperity, it is _____ that the fruits of progress reach all, and in equal measure.</b>	
<b>A.</b>	inevitable
<b>B.</b>	contingent
<b>C.</b>	oblivious
<b>D.</b>	imperative

5)

A person invests Rs.1000 at 10% annual compound interest for 2 years. At the end of two years the whole amount is invested at an annual simple interest of 12% for 5 years. The total value of the investment finally is:	
<input type="radio"/>	1776
<input type="radio"/>	1760
<input type="radio"/>	1920
<input type="radio"/>	1936

6)

<p>The ban on smoking in designated public places can save a large number of people from the well known effects of environmental tobacco smoke. Passive smoking seriously impairs respiratory health. The ban rightly seeks to protect non-smokers from its ill effects.</p> <p><i>Which of the following statements best sums up the meaning of the above passage:</i></p>	
<input type="radio"/>	Effects of environmental tobacco are well known.
<input type="radio"/>	The ban on smoking in public places protects the non smokers.
<input type="radio"/>	Passive smoking is bad for health.
<input type="radio"/>	The ban on smoking in public places excludes passive smoking.

7)

<p>Given the sequence A, B, B, C, C, C, D, D, D, D, ... etc., that is one A, two Bs, three Cs, four Ds, five Es and so on, the 240<sup>th</sup> letter in the sequence will be:</p>	
<b>A.</b>	V
<b>B.</b>	U
<b>C.</b>	T
<b>D.</b>	W

8)

<p>Consider the set of integers {1, 2, 3, ..., 5000}. The number of integers that is divisible by neither 3 nor 4 is:</p>	
<b>A.</b>	1668
<b>B.</b>	2084
<b>C.</b>	2500
<b>D.</b>	2916

9)

A positive integer  $m$  in base 10 when represented in base 2 has the representation  $p$  and in base 3 has the representation  $q$ . We get  $p - q = 990$  where the subtraction is done in base 10. Which of the following is necessarily true:

**A.**  $m \geq 14$

**B.**  $9 \leq m \leq 13$

**C.**  $6 \leq m \leq 8$

**D.**  $m < 6$

10)

Given the following four functions  $f_1(n) = n^{100}$ ,  $f_2(n) = (1.2)^n$ ,  $f_3(n) = 2^{n/2}$ ,  $f_4(n) = 3^{n/3}$  which function will have the largest value for sufficiently large values of  $n$  (i.e.  $n \rightarrow \infty$ )?

**A.**  $f_4$

**B.**  $f_3$

**C.**  $f_2$

**D.**  $f_1$