AE: Aerospace Engineering

GA - General Aptitude

Q1 - Q5 carry one mark each.

Q.No. 1 The untimely loss of life is a cause of serious global concern as thousands of people get killed______accidents every year while many other die______diseases like cardio vascular disease, cancer, etc.

(a) in, of
(b) from, of
(c) during, from
(d) from, from

Q.No. 2 He was not only accused of theft______of conspiracy.

(a) rather
(b) but also
(c) but even
(d) rather than

Q.No. 3 Select the word that fits the analogy:

Explicit: Implicit :: Express: _____

(A) Impress
(B) Repress
(C) Compress
(D) Suppress

Q.No. 4 The Canadian constitution requires that equal importance be given to English and French. Last year, Air Canada lost a lawsuit, and had to pay a six-figure fine to a French-speaking couple after they filed complaints about formal in-flight announcements in English lasting 15 seconds, as opposed to informal 5 second messages in French.

The French-speaking couple were upset at______.

(A) the in-flight announcements being made in English.
(B) the English announcements being clearer than the French ones.
(C) the English announcements being longer than the French ones.
(D) equal importance being given to English and French.

Q.No. 5 A superadditive function $f(\cdot)$ satisfies the following property

$$f(x_1 + x_2) \geq f(x_1) + f(x_2)$$

Which of the following functions is a superadditive function for $x > 1$?

(A) $e^x$
(B) $\sqrt{x}$
(C) $\frac{1}{x}$
(D) $e^{-x}$

Q6 - Q10 carry two marks each.

Q.No. 6 The global financial crisis in 2008 is considered to be the most serious world-wide financial crisis, which started with the sub-prime lending crisis in USA in 2007. The sub-prime lending crisis led to the banking crisis in 2008 with the collapse of Lehman Brothers in 2008. The sub-prime lending refers to the provision of loans to those borrowers who may have difficulties in repaying loans, and it arises because of excess liquidity following the East Asian crisis.