GA - General Aptitude

Q1 - Q5 carry one mark each.

Q.No. 1: It is a common criticism that most of the academicians live in their_____, so, they are not aware of the real life challenges.
(A) homes
(B) ivory towers
(C) glass palaces
(D) big flats

Q.No. 2: His hunger for reading is insatiable. He reads indiscriminately. He is most certainly a/an_____reader.
(A) all-round
(B) precocious
(C) voracious
(D) wise

Q.No. 3: Select the word that fits the analogy:
Fuse : Fusion :: Use :_____
(A) Usage
(B) User
(C) Uses
(D) Usion

Q.No. 4: If 0, 1, 2, ..., 7, 8, 9 are coded as O, P, Q, ..., V, W, X, then 45 will be coded as_____.
(A) TS
(B) ST
(C) SS
(D) SU

Q.No. 5: The sum of two positive numbers is 100. After subtracting 5 from each number, the product of the resulting numbers is 0. One of the original numbers is_____.
(A) 80
(B) 85
(C) 90
(D) 95

Q6 - Q10 carry two marks each.

Q.No. 6: The American psychologist Howard Gardner expounds that human intelligence can be subcategorised into multiple kinds, in such a way that individuals differ with respect to their relative competence in each kind. Based on this theory, modern educationists insist on prescribing multi-dimensional curriculum and evaluation parameters that enable development and assessment of multiple intelligences.

Which of the following statements can be inferred from the given text?
(A) Howard Gardner insists that the teaching curriculum and evaluation needs to be multi-dimensional.
(B) Howard Gardner wants to develop and assess the theory of multiple intelligences.
(C) Modern educationists want to develop and assess the theory of multiple intelligences.
(D) Modern educationists insist that the teaching curriculum and evaluation needs to be multi-dimensional.

Q.No. 7: Five friends P, Q, R, S and T went camping. At night, they had to sleep in a row inside the tent. P, Q and T refused to sleep next to R since he snored loudly. P and S wanted to avoid each other. How many different arrangements are possible?
(A) 4
(B) 5
(C) 6
(D) 7

Q.No. 8: If $\sqrt{2}$ is the least positive root of the equation $x^2 - 2 = 0$, find the value of $x^2$ if $x > 0$.
(A) $2\sqrt{2}$
(B) $4\sqrt{2}$
(C) $8\sqrt{2}$
(D) $16\sqrt{2}$

Q.No. 9: A rectangle has a length of 10 cm and a width of 5 cm. What is the area of the rectangle?
(A) 25 cm²
(B) 50 cm²
(C) 75 cm²
(D) 100 cm²

Q.No. 10: If $a + b = 10$ and $ab = 21$, find the value of $a^2 + b^2$. (Use the identity $a^2 + b^2 = (a + b)^2 - 2ab$)
(A) 88
(B) 92
(C) 96
(D) 100