General Aptitude (GA) Questions

Q. 1 – Q. 5 carry one mark each.

Q.1 If $3 \leq X \leq 5$ and $8 \leq Y \leq 11$ then which of the following options is TRUE?

(A) $\dfrac{3}{5} \leq \dfrac{X}{Y} \leq \dfrac{8}{5}$

(B) $\dfrac{3}{11} \leq \dfrac{X}{Y} \leq \dfrac{5}{8}$

(C) $\dfrac{3}{11} \leq \dfrac{X}{Y} \leq \dfrac{8}{5}$

(D) $\dfrac{3}{5} \leq \dfrac{X}{Y} \leq \dfrac{8}{11}$

Q.2 The Headmaster _____ to speak to you.

Which of the following options is incorrect to complete the above sentence?

(A) is wanting

(B) wants

(C) want

(D) was wanting

Q.3 Mahatama Gandhi was known for his humility as

(A) he played an important role in humiliating exit of British from India.

(B) he worked for humanitarian causes.

(C) he displayed modesty in his interactions.

(D) he was a fine human being.

Q.4 All engineering students should learn mechanics, mathematics and how to do computation.
        I   II   III   IV
Which of the above underlined parts of the sentence is not appropriate?

(A) I   (B) II   (C) III   (D) IV

Q.5 Select the pair that best expresses a relationship similar to that expressed in the pair:
water: pipe::

(A) cart: road   (B) electricity: wire
(C) sea: beach   (D) music: instrument

Q. 6 to Q. 10 carry two marks each.

Q.6 Velocity of an object fired directly in upward direction is given by $V = 80 - 32\,t$, where t (time) is in seconds. When will the velocity be between 32 m/sec and 64 m/sec?

(A) (1, 3/2) (B) (1/2, 1)

(C) (1/2, 3/2) (D) (1, 3)

Q.7 In a factory, two machines M1 and M2 manufacture 60% and 40% of the autocomponents respectively. Out of the total production, 2% of M1 and 3% of M2 are found to be defective. If a randomly drawn autocomponent from the combined lot is found defective, what is the probability that it was manufactured by M2?

(A) 0.35 (B) 0.45 (C) 0.5 (D) 0.4

Q.8 Following table gives data on tourists from different countries visiting India in the year 2011.

Country	Number of Tourists
USA	2000
England	3500
Germany	1200
Italy	1100
Japan	2400
Australia	2300
France	1000

Which two countries contributed to the one third of the total number of tourists who visited India in 2011?

(A) USA and Japan

(B) USA and Australia

(C) England and France

(D) Japan and Australia

Q.9 If $|-2X + 9| = 3$ then the possible value of $|-X| - X^2$ would be:

(A) 30 (B) -30 (C) -42 (D) 42

Q.10 All professors are researchers
Some scientists are professors

Which of the given conclusions is logically valid and is inferred from the above arguments:

(A) All scientists are researchers

(B) All professors are scientists

(C) Some researchers are scientists

(D) No conclusion follows

Section	Q.No	Key(s)/Value(s)
GA	1	B
GA	2	C
GA	3	C
GA	4	D
GA	5	B
GA	6	C
GA	7	C
GA	8	C
GA	9	B
GA	10	C