IEM KOLKATA

PROBABILITY

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Q1) The probability of an event can be
(a) -0.04 (b) 1.00009 (c) 18/23 (d) None

Q2) There are 3 children in a family. What is the probability that atleast 1 child in the family is a girl?
(a) 3/4 (b) 2/3 (c) 7/8 (d) 1/3

Q3) A speaks the truth 7 times out of 11 times & B speaks the truth 5 times out of 8. What is the probability that they will contradict each other in stating the same fact?
(a) 47/88 (b) 43/88 (c) 28/77 (d) 41/88

Q4) A & B appear for an interview for two vacancies. The probability of A's selection is 1/3 & that of B is 1/5. Find the probability that none of them be selected.
(a) 8/15 (b) 14/15 (c) 1/15 (d) 2/15

Q5) A speaks the truth in 60% cases & B speaks the truth in 70% cases. Find the probability that they will say the same thing while describing a single event?
(a) 27/50 (b) 14/25 (c) 3/5 (d) 11/20

Q6) What is the probability that any one of the numbers 1,2,3,...,100 is a prime number?
(a) 16/50 (b) 8/25 (c) 6/25 (d) 1/4

Q7) In a lottery, there are 10 prizes & 25 blanks. A lottery is drawn at random. What is the probability of getting a prize?
(a) 1/10 (b) 2/5 (c) 2/7 (d) 5/7

Q8) What is the probaility of having 53 Thursdays in a non-leap year?

Q9) What is the probaility of having 53 Thursdays in a leap year?

Q10) What is the probability that a leap year will contain 53 Tuesdays and 52 Wednesdays?