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MCQ 1:

Question: Number of combinations of 3-bit string that contain exactly three "0" is _____?

Options:

A) 1

B) 8

C) 7

D) 6

Correct Option: B) 8

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MCQ 2:

Question: Compute C(8, 3) _____?

Options:

A) 36

B) 45

C) 36

D) 46

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Correct Option: C) 36

MCQ 3:

Question: The value of (-3)! is _____?

Options:

A) None of the above

B) Not defined

C) 6

D) -6

Correct Option: A) None of the above (Factorial of a negative number is not defined)

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MCQ 4:

Question: A student is to answer five out of nine questions on exams. Find the number of ways that can choose the five questions _____?

Options:

A) 216

B) 216

C) 126

D) 316

Correct Option: C) 126

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MCQ 5:

Question: How many possible outcomes are there when a fair coin is tossed four times? _____?

Options:

A) 3

B) 8

C) 16

D) 32

Correct Option: C) 16

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MCQ 6:

Question: If one event can occur in ways, a second event can occur in ways, and a third event can occur in ways, how many ways can all of the events occur in order?

Options:

A) ways1 + ways2 + ways3

B) ways1 - ways2 - ways3

C) ways1 * ways2 * ways3

D) ways1 / ways2 / ways3

Correct Option: C) ways1 * ways2 * ways3

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MCQ 7:

Question: The sum rule in terms of sets involves which set operation?

Options:

A) Intersection

B) Union

Correct Option: B) Union

MCQ 8:

Question: If there are 5 different optional courses in English and 3 different optional courses in Maths, how many choices does a student have to take one optional course?

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Options:

A) 5

B) 7

C) 8

D) 9

Correct Option: C) 8

MCQ 9:

Question: In how many ways can a student choose one of each of the courses when offered 3 mathematics courses, 4 literature courses, and 2 history courses?

Options:

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A) 14

B) 92

C) 88

D) 24

Correct Option: D) 24

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