

Quiz 1 question paper

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Your Name

MD. BOKHTIAR RAHMAN J

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20301138

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05

✖

05

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Set

1.0/1.0 point (graded)

In a group of 80 bracu-cse students, in this semester, 50% of them took CSE230, 70% of them took CSE111. If each people took at least one course, how many of them took both courses?

16

✔

16

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You have used 2 of 2 attempts

Set

1.0/1.0 point (graded)

In a group of 80 people, 50% of them like Summer season, 70% of them like Winter season. If each people likes at least one season, how many of them like both seasons?

16

✔

Submit

You have used 2 of 2 attempts

Set

0.0/1.0 point (graded)

In a group of 80 people, 50% of them like Summer season, 70% of them like Winter season. If each people likes at least one season, how many of them like ONLY Summer season?

40

✖

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Question (Easy)

0.0/1.0 point (graded)

To enjoy her weekend Suchi prepares a list of 5 horror movies, 7 thriller movies, 4 romantic movies and 12 comedy movies. She decides that she will either watch (one horror movie and one thriller movie and one romantic movie) or she will watch only a comedy movie. How many ways can she enjoy her weekend watching movies according to her decision?

28

✖

28

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Question (Medium)

0.0/1.0 point (graded)

A licence plate has 3 letters followed by 4 digits where no letter can be repeated but the same digit can repeat. How many licence number can be formed where no even digit will be used (Example: ABC3333)?

2340

✖

2340

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You have used 2 of 2 attempts

Question (Medium)

0.0/1.0 point (graded)

How many ways can the letters in the word "PARALLEL" be arranged if the letters P, R and E are together?

16 ✖

16

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Question (Hard)

0.0/1.0 point (graded)

How many 5 digit numbers can be formed where odd and even digits will appear in alternative positions and where the first and last digits will be divisible by 4? (Digits can be used repeatedly) [example: 45458, 45670 etc]

45458 ✖

45458

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Question on Function

0.0/1.0 point (graded)

You can choose multiple options if necessary.

Which of the following relation/s is/are ONE-TO-ONE (injective) function/s?

☒ $y=2x$

☒ $y=x^4$

☒ $y=x^3$

☐ $y=|x-2|$

☐ $y=3x-3$

✖

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Question on Function

1.0/1.0 point (graded)

If the inverse function of $f(x) = (-2x+8) / (x-6)$ is $f^{-1}(x) = (ax+8) / (y+b)$, then $a+b=?$

4 ✔

4

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Question on function

1.0/1.0 point (graded)

Suppose, $f(x) = (9x+5) / (4x-3)$

How many real numbers will be absent in the RANGE of $f(x)$?

1 ✔

1

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