Stargazer_ Total
MLAssist - Personalised DPP

Question Paper Analysis:

Question Paper Analysis by Topic

Weak Topic Analysis:

4. Let $f(x) = \begin{vmatrix} 2+x, & x \le 0 \\ 4-x, & x < 0 \end{vmatrix}$
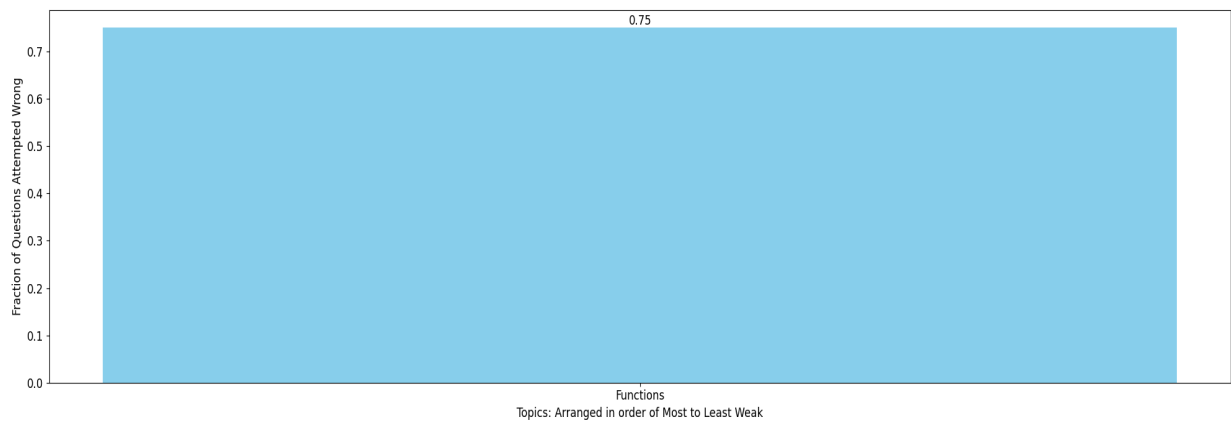
   If $f(f(x)) = k$ has atleast one solution, then smallest value of k is

   (A) 2   (B) 3   (C) 4   (D) 6

4. Let f: $[0, a] \to S$ be a function defined by $f(x) = 3\cos \frac{x}{2}$. If the largest value of a for which $f(x)$ has

5. If $f(x) = |x + 2| + |2x - p| + |x - 2|$ attains its minimum value in the interval $(-1,1)$ then sum of all possible integral value of p is

   (A) 0   (B) 1   (C) 3   (D) 4

PARAGRAPHBASED

Paragraph for question nos. 6&7

Let $f(x) = x^2 - 2x - 1 \forall x \in R$. Let f: $(-\infty, a] \to [b, \infty)$, where 'a' is the largest real number for which $f(x)$ is bijective.

3. The area bounded by the graph of $f(x)$ and the x-axis from $x = -1$ to $x = 9$ is

   (A) $\frac{31}{2}$ (B) 15   (C) 12   (D) $\frac{15}{2}$

13. Let $f(x)$ be a function such that $f(x - 1) + f(x + 1) = \sqrt{3}$

    $f(x) \forall x \in R$. If $f(5) = 100$, then $\sum_{r=0}^{49} f(5 + 12r)$