

- (i) Find the limit superior and limit inferior of the sequence  $\{(-1)^n\}$ .
- (ii) Define the Cantor set  $C$  and Prove that it has Lebesgue measure zero.
- (iii) Let  $f$  be real valued function defined on a measurable domain  $D$  and  $F$  be a closed set in  $\mathbb{R}$ . Prove that  $f$  is Measurable if and only if  $f^{-1}(F)$  is measurable.
- (iv) Let  $f$  be a function with measurable domain  $D$ . Then  $f$  is measurable if and only if the function  $g(x) = \begin{cases} f(x), & \text{if } x \in D \\ 0, & \text{if } x \notin D \end{cases}$  is measurable.
- (v) Let  $\{f_n\}$  be sequence of Measurable function defined on a measurable set  $E$  of finite measure and  $f_n \rightarrow f$  in measure a.e. Then prove that  $f_n \rightarrow f$  in measure.

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**Part-III Give detailed answers, each question carries equal marks. (30)**

- Q.3 Show that the Lebesgue outer measure of an interval is its length.
- Q.4 Prove that every Lebesgue measurable set with positive measure has a non-Lebesgue measurable subset.
- Q.5 Let  $f : R \times R \rightarrow R$  be a Measurable function and  $g : R \times R \rightarrow R$  be a Borel Measurable function. Show that  $g \circ f$  is a Measurable function.
- Q.6 State and Prove the Bounded Convergence theorem.
- Q.7 Let  $g$  be integrable on  $E$  and  $\{f_n\}$  be sequence of Measurable function such that  $|f_n| \leq g$  on  $E$ . Suppose that  $\lim_n f_n(x) = f(x)$  a.e on  $E$ . Then show that  $\lim_n \int_E f_n = \int_E \lim_n f_n$ .

Give a counter example that this result fails to hold if  $\{f_n\}$  is unbounded?

# Measure Theory Questions And Answers

**L Darling-Hammond**



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changes in chapter 6 Since 1990 it has become clear that there are two notions of dimension that play complementary roles so the emphasis on Hausdorff dimension will be replaced by the two Hausdorff dimension and packing dimension 6.1 will remain but a new section on packing dimension will follow it then the old sections 6.2, 6.4 will be rewritten to show both types of dimension Substantial change in chapter 7 new examples along with recent developments Sections rewritten to be made clearer and more focused

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