SOA真题Course6ExamC精算师考试 PDF转换可能丢失图片或格式,建议阅读原文

https://www.100test.com/kao_ti2020/571/2021_2022_SOA_E7_9C _9F_E9_A2_98C_c50_571386.htm Exam C, Fall 2005FINAL ANSWER KEYQuestion # Answer Question # Answer1 D 19 B2 A 20 A3 E 21 B4 B 22 A5 E 23 E6 E 24 B and C7 A 25 C8 D 26 C9 B 27 A10 D and E 28 B11 D 29 C12 C 30 D13 C 31 B14 C 32 B15 A 33 E16 D 34 A17 D 35 E18 AExam C: Fall 2005 -1- GO ON TO NEXT PAGE**BEGINNING OF EXAMINATION**1. A portfolio of policies has produced the following claims: 100 100 100 200 300 300 300 400 500 600 Determine the empirical estimate of H(300).(A) Less than 0.50(B) At least 0.50, but less than 0.75(C) At least 0.75, but less than 1.00(D) At least 1.00, but less than 1.25(E) At least 1.25Exam C: Fall 2005 -2- GO ON TO NEXT PAGE2. You are given:(i) The conditional distribution of the number of claims per policyholder is .(ii) The variable has a gamma distribution Poisson withmean .(iii) For policyholders with 1 claim in and with parameters Year 1, the credibility estimate for the number of claims in Year 2 is 0.15.(iv) For policyholders with an average of 2 claims per year in Year 1 and Year 2, thecredibility estimate for the number of claims in .(A) Less than 0.02(B) At least 0.02, but Year 3 is 0.20. Determine less than 0.03(C) At least 0.03, but less than 0.04(D) At least 0.04, but less than 0.05(E) At least 0.05Exam C: Fall 2005 -3- GO ON TO NEXT PAGE3. A random sample of claims has been drawn from a Burr distribution with known parameter = 1 and unknown . You are given:(i) 75% of the claim amounts parameters and

in the sample exceed 100.(ii) 25% of the claim amounts in the sample by percentile matching.(A) Less than 190(B) exceed 500.Estimate At least 190, but less than 200(C) At least 200, but less than 210(D) At least 210, but less than 220(E) At least 220Exam C: Fall 2005 -4-GO ON TO NEXT PAGE4. You are given:(i) f (x) is a cubic spline with knots (0, 0) and (2, 2).(ii) f (0) = 1 and f (2) =−.24Determine f (1).(A) 1(B) 4(C) 6(D) 8(E) 10Exam C: Fall 2005 -5- GO ON TO NEXT PAGE5. For a portfolio of policies, you are given:(i) There is no deductible and the policy limit varies by policy.(ii) A sample of ten claims is:350 350 500 500 500 1000 1000 1000 1200 1500where the symbol indicates that the loss exceeds the policy limit.(iii) ^S1(1250) is the product-limit estimate of S(1250).(iv) ^S2 (1250) is the maximum likelihood estimate of S(1250) under the assumption that the losses follow an exponential distribution. Determine the absolute difference between ^S1(1250) and ^S2 (1250) .(A) 0.00(B) 0.03(C) 0.05(D) 0.07(E) 0.09Exam C: Fall 2005 -6- GO ON TO NEXT PAGE 100Test 下载频道开通, 各类考试题目直接下载。详细请访问 www.100test.com