| ISYE3232A Quiz 1 - Fall 2014 (Type A)   |
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| Name: SHK Signature:  |
| 1(a) Binomiae $\frac{3}{2 \cdot 3} = \frac{1}{2}$ 1(c)-iii $\frac{3}{4+9+1-2(3)+2(-1)-2(2)}$  |
| 1(b) Geometric 1(c)-ii 3-5+1=-1   |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  |
| $\frac{1(e)-i}{\sqrt{10} \cdot 3} = \frac{10}{10} \left( \frac{X-1000}{10} \right) = 0.9$   |
| 1€(e)-ii $\frac{7}{3}/\sqrt{10}$ $\frac{3}{\sqrt{10}}$ $$ |
| $2(a) \int_{30}^{40} \chi_{20}^{\perp} d\chi + \int_{40}^{50} d\chi = \frac{1}{40} (40-30) + \frac{40}{20} (50-40)$   |
| $\int_{\frac{3}{70}}^{40} (40-2) \frac{1}{20} d\chi = \frac{40}{20} (40-30) - \frac{1}{40} (40-30) \left\  40 - \text{Answer from 2}(a) \right\ $   |
| $\frac{15-5}{15-1} = \frac{10}{14} = \frac{5}{7} \approx 0.71$ $\frac{y-30}{20} \approx 0.71$ $\frac{y-30}{20} \approx 0.71$ $\frac{y-30}{20} \approx 0.71$ $\frac{y-30}{20} \approx 0.71$  |
| 3(a) (6+5+4+3+2+1) X 10 X 10  |
| 3(b) (1+2+3) X 10 X 630   |
| 3(c) Answer from 3(a) + Answer From 3 (b) + 16x 200   |
| $\frac{630-200}{630+70} = \frac{430}{700} \approx 0.61$ $y^* = 16$  |
| $\frac{16}{\chi = 0} \frac{16}{\chi} \frac{-\frac{10}{20}}{\chi!} + \frac{\infty}{\chi = 19} \frac{\frac{10}{20}}{\chi!} = \frac{16}{\chi} \frac{\frac{10}{20}}{\chi!}$   |

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| 1(a) (teometric $\frac{2}{3 \cdot 1} = \frac{2}{3}$ 1(c)-iii $44$ ? $+1$ $+2$ (3) $-2$ (-1) $-2$ (2)  |
| 1(b) Binomial 1(c)-ii 3+5-1=7 = 14+6+2-4=18   |
| 1(d)-ii + e 7/6 = 0.8   |
| $e^{\frac{1}{(d)-ii}} e^{\frac{2\pi}{b}} = 0.2 \rightarrow -\frac{\pi}{b} = \ln 0.2  (1.\pi = -b)$  |
| $\frac{1(e)-i}{4\sqrt{100}} = \frac{10(\sqrt{x}-20)}{4} \qquad \frac{1(f)}{10} P_1(\frac{X-2000}{10}) = 0.8$  |
| 1€(e)-ii $\sum_{i=1}^{loo} \chi_i - 20(loo) = \sum_{i=1}^{loo} \frac{3}{40}$ $\frac{3}{100} = \frac{2000 + 10(0.845)}{40}$  |
| $ \int_{50}^{80} x \frac{1}{50} dx + \int_{90}^{100} 80 \frac{1}{50} dx = \frac{1}{100} (80 - 50) + \frac{80}{50} (100 - 80) $  |
| $\int_{50}^{80} (80 \times 7) \frac{1}{50} dx = \frac{80}{50} (80 - 50) - \frac{1}{100} (80 - 50) = \frac{1}{80} - 4 \text{nswerfrom 2}$  |
| $\frac{2(c)}{20-4} = \frac{14}{16} = \frac{7}{8} \approx 0.875  \text{teg} = \frac{y-50}{50} = 0.875$ $\therefore y^* = 50 + 50(0.875)$   |
| $(3+2+1) \times \frac{1}{10} \times 10$   |
| $(1+2+3+4+5+6) \times (0) \times $ |
| 3(c) [(3+2+1) X to ] X80 + [(1+2+3+4+5+6)x to ] X620 + 300x 13  |
| $\frac{620 - 300}{620 + 80} = \frac{320}{700} = 0.46$ $y^{*} = 14$  |
| $\frac{13}{x_{z0}} \chi = \frac{10}{2} \chi + \sum_{z=14}^{\infty} \frac{13}{2!} = \frac{10}{2!} \chi = \frac{13}{2!}$  |