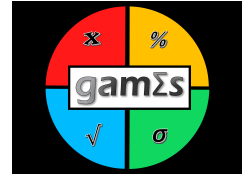


GAMES Course 2 Term Test Solutions



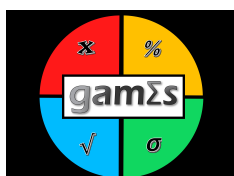
Multiple-Choice

1. (d)
2. (d)
3. (a)
4. (b)
5. (b)
6. (c)
7. (c)
8. (a)
9. (c)
10. (d)

Short Answer Questions

1.
 - (a) A and B are mutually exclusive.
 - (b) C and D are independent.
 - (c) E and F are neither independent, nor mutually exclusive.
 - (d) G and H are independent.
 - (e) I and J are neither independent, nor mutually exclusive..
2.
 - (a) 0.95
 - (b) $(0.95)^2 = 0.9025$
 - (c) $0.05(0.95)^3 = 0.043$
 - (d) 0.05
 - (e) $1 - (0.95)^4 = 0.185$
3.
 - (a) Venn diagram would be two circles which partly overlap.
 - (b) $\frac{120}{200} = 0.6$
 - (c) $\frac{20}{200} = 0.1$
 - (d) $\frac{40}{200} = 0.2$
 - (e) $\frac{20}{120} = 0.83$
 - (f) $\frac{20}{60} = 0.33$
4. (i) $\frac{0.2*0.05}{0.2*0.05+0.1*0.25+0.05*0.7} = 0.143$, (ii) $\frac{0.1*0.25}{0.2*0.05+0.1*0.25+0.05*0.7} = 0.36$

5. $\frac{1}{2} \log(B) + \log(A^3)$ or $\log(A^3 \sqrt{B})$ or $\frac{1}{2} \log(B) + 3 \log(A)$ or $\log(A) + \log(A^2) + \frac{1}{2} \log(B)$
6. approximately 21 days



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