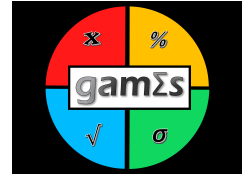


GAMES Course 1 Term Test Solutions



Multiple-Choice

1. (a) and (c)
2. (d)
3. (d)
4. (b) $\sum_{i=1}^4 p_i x_i$
5. (d)
6. (a)
7. (c)
8. (d)
9. (b)
10. (a)

Short Answer Questions

1. (a) $35 + 0.5x$
(b) No
(c) 90%
2. (a) pN in 1 day, $(pN)^t$ in t days
(b) $10pN$ in 1 day, $10(pN)^t$ in t days
(c) $10(2)^5 = 320$
3. (a) $\frac{1000}{(1+r)^2}$
(b) $\frac{1000}{(1+r)} + \frac{1000}{(1+r)^2} + \dots + \frac{1000}{(1+r)^5} = \sum_{t=1}^5 \frac{1000}{(1+r)^t}$
(c) $\frac{1000}{0.05} \left(1 - \frac{1}{(1+0.05)^5}\right) = 4329.50$
4. $\frac{19}{63}$
5. 99 days
6. Let A,B Be the efficiency of each worker, T his time in minutes, and the number of tasks to complete is 1. We can write an equation: $(A + B)t = 1$ Every minute, worker A completes $1/14$ of the task, and both workers take 6 minutes to finish: $(1/14 + B)6 = 1$. solve for B, B is 5.15 minutes or 5 minutes, 15 seconds.
7. $w = a \frac{h^3}{u}$ solve for the constant parameter: $a = 4$ then solve $24 = 4 \frac{2^3}{u}$, $u = 1/3$

8. (a) yes
(b) no
(c) yes



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