Name:		

Information in Biology Course

Quiz #1

Papers by Ptashne and Adelman

- 1. Irradiation by γ -rays of a bacterium infected with λ phage will eventually:
 - a. Turn off lysogenic genes
 - b. Turn on lytic genes
 - c. Cause damage in DNA
 - d. All of the above
- 2. The lac operon will turn on when:
 - a. Lactose is present
 - b. Glucose is absent
 - c. Both of the above
 - d. None of the above
- 3. O_R3 becomes occupied if and only if:
 - a. O_R2 is occupied
 - b. O_R1 is not occupied
 - c. Repressor is at high concentration
 - d. All of the above
- 4. Magnetic beads were used by Adelman to:
 - a. Check if the path goes through all nodes
 - b. Check if a vertex participates in the path
 - c. Check if a path exists
 - d. Check for the overall length of the path
- 5. To solve a 30 node Hamiltonian path Adelman would need about:
 - a. 2 kg of DNA
 - b. 20 ton of DNA
 - c. 200,000 ton of DNA
 - d. 20 million ton of DNA
- 6. 150 nM of a certain drug gives about:
 - a. 1 molecule per E. coli
 - b. 10 molecule per *E. coli*
 - c. 100 molecule per E. coli
 - d. None of the above