

At a Glance**Total Time**

1 hour and 30 minutes

Number of Questions

60

Percent of Total Score

50%

Writing Instrument

Pencil required

Electronic Device

Calculator allowed

Instructions

Section I of this exam contains 60 multiple-choice questions. Indicate all of your answers to the Section I questions on the answer sheet. No credit will be given for anything written in this exam booklet, but you may use the booklet for notes or scratch work.

Use your time effectively, working as quickly as you can without losing accuracy. Do not spend too much time on any one question. Go on to other questions and come back to the ones you have not answered if you have time. It is not expected that everyone will know the answers to all of the multiple-choice questions.

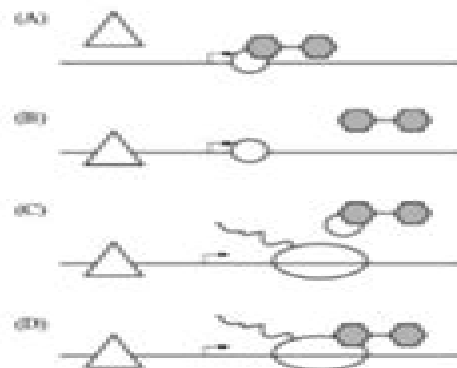
Your total score on Section I is based only on the number of questions answered correctly. Points are not deducted for incorrect answers or unanswered questions.

1. The *lac* operon in *E. coli* consists of genes that code for enzymes necessary for the breakdown of lactose. When lactose is absent, the operon is inactive because a repressor protein binds to a specific site in the *lac* operon. When lactose is present, lactose molecules bind to the repressor protein, causing the repressor protein to dissociate from the binding site. In the absence of glucose (a preferred energy source for bacteria), the protein CAP binds to a regulatory site near the *lac* promoter to activate transcription of the *lac* operon.

The following symbols represent the macromolecules involved in regulation of the *lac* operon.



In the diagrams below, the horizontal line represents the *lac* operon and the bent arrow represents the transcription start site of the *lac* operon. Which of the following diagrams best represents the scenario in which lactose is available to the cell and glucose is absent?



2. A researcher hypothesizes that RNA molecules were present in the most recent common ancestor of all living organisms. Which of the following scientific questions would best test the hypothesis?

- (A) Is it possible to produce an RNA polymer in a laboratory setting?
- (B) How many distinct functions can a particular RNA molecule perform in a cell?
- (C) How many different monomers of RNA are found in a eukaryotic cell?
- (D) Do any known organisms function entirely without RNA?

Ap Biology Gene Expression Answer Key

Phillip E. Pack



Ap Biology Gene Expression Answer Key:

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