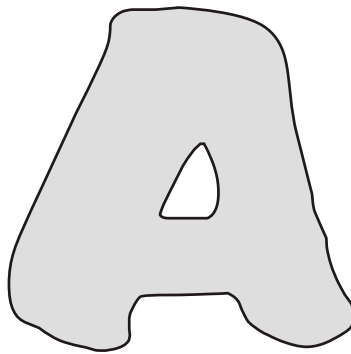


# **Alabama High School Graduation Exam Student Review Guide: Biology**

## **Practice Test**



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Practice Test A for the  
Alabama High School Graduation Exam  
Student Review Guide: Biology

by  
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# Science Practice Test A

Read each of the following questions carefully. Darken the circle corresponding to your answer choice.

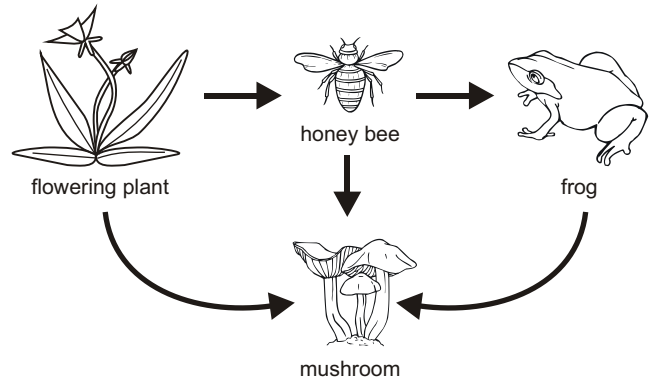
1. An independent research company conducts an experiment on the effects of a melatonin supplement on sleep patterns in people ages 40 to 60. The company recruits 300 participants from across the country who suffer from insomnia (inability to fall asleep). The participants are divided into three groups of 100. The first group is given a placebo tablet. The second group is given a 40 mg tablet of melatonin at 8 PM, and a third group is given an 80 mg tablet of melatonin also at 8 PM. The researchers monitor the minutes of uninterrupted sleep each person receives during the night.

Which group or groups represent the control group in this experiment?

- A the group receiving the placebo
- B the groups receiving the melatonin
- C the group receiving 40 mg of melatonin
- D the group receiving no tablets

(A) (B) (C) (D)

4. Study the food web below.



Which organism in this food web represents a decomposer?

- A flowering plant
- B honey bee
- C frog
- D mushroom

(A) (B) (C) (D)

2. Which of these is NOT a use of lipids?

- A store energy long-term
- B store energy short-term
- C help to form cell membranes
- D used to make hormones

(A) (B) (C) (D)

5. Which of the following processes requires chlorophyll?

- A evaporation
- B cellular respiration
- C transpiration
- D photosynthesis

(A) (B) (C) (D)

3. In a controlled scientific experiment, when should the data be recorded?

- A while forming a hypothesis
- B while developing an experimental plan
- C while conducting the experiment
- D after conducting the experiment while summarizing the results of the experiment

(A) (B) (C) (D)

6. Which unit of measurement would you use to measure the amount of mass of a bumblebee?

- A milliliters
- B centimeters
- C grams
- D micrometers

(A) (B) (C) (D)

# Practice Test A

## Evaluation Chart

| If you missed question #: | Go to section(s): | If you missed question #: | Go to section(s):  | If you missed question #: | Go to section(s): |
|---------------------------|-------------------|---------------------------|--------------------|---------------------------|-------------------|
| 1                         | 3.2               | 35                        | 17.1, 17.2         | 69                        | 20.1              |
| 2                         | 6.3               | 36                        | 16.2               | 70                        | 7.3               |
| 3                         | 3.3               | 37                        | 16.4               | 71                        | 20.4              |
| 4                         | 14.3, 22.3        | 38                        | 18.4               | 72                        | 22.5              |
| 5                         | 8.3               | 39                        | 18.3               | 73                        | 9.2               |
| 6                         | 1.3, 2.2          | 40                        | 18.4               | 74                        | 23.4              |
| 7                         | 3.2               | 41                        | 18.3               | 75                        | 22.2              |
| 8                         | 2.1               | 42                        | 9.2                | 76                        | 9.1               |
| 9                         | 2.4               | 43                        | 15.6               | 77                        | 22.5              |
| 10                        | 22.3, 22.4        | 44                        | 9.4                | 78                        | 12.4              |
| 11                        | 8.2               | 45                        | 23.3               | 79                        | 22.4              |
| 12                        | 21.4              | 46                        | 18.4               | 80                        | 22.2              |
| 13                        | 9.1               | 47                        | 10.1, 10.2         | 81                        | 13.3, 14.1        |
| 14                        | 2.3               | 48                        | 13.4               | 82                        | 13.4              |
| 15                        | 15.1, 15.5        | 49                        | 5.4, 5.5, 8.3      | 83                        | 22.2              |
| 16                        | 9.4               | 50                        | 22.5               | 84                        | 7.6               |
| 17                        | 5.4               | 51                        | 12.5               | 85                        | 13.1              |
| 18                        | 8.3, 8.5          | 52                        | 12.1               | 86                        | 7.3, 7.6          |
| 19                        | 4.5, 6.6          | 53                        | 23.3               | 87                        | 1.4               |
| 20                        | 23.1              | 54                        | 5.6                | 88                        | 12.4              |
| 21                        | 15.1, 15.4        | 55                        | 6.5, 12.1          | 89                        | 12.4              |
| 22                        | 13.1              | 56                        | 6.5, 12.1          | 90                        | 7.5               |
| 23                        | 9.1               | 57                        | 7.1, 7.2, 7.3, 7.4 | 91                        | 5.1               |
| 24                        | 16.4              | 58                        | 5.3, 14.1          | 92                        | 5.6               |
| 25                        | 9.1, 9.2          | 59                        | 10.1               | 93                        | 22.2              |
| 26                        | 5.4               | 60                        | 10.1               | 94                        | 14.1              |
| 27                        | 13.2, 16.2        | 61                        | 10.1, 10.2, 10.3   | 95                        | 14.2              |
| 28                        | 13.2, 16.2        | 62                        | 7.1, 7.4           | 96                        | 6.6               |
| 29                        | 13.1              | 63                        | 7.3                | 97                        | 11.2              |
| 30                        | 20.2              | 64                        | 14.2               | 98                        | 20.3, 20.4        |
| 31                        | 15.6              | 65                        | 5.4                | 99                        | 22.1, 22.5        |
| 32                        | 5.2               | 66                        | 23.1               | 100                       | 10.1, 10.2        |
| 33                        | 11.2              | 67                        | 22.6               |                           |                   |
| 34                        | 15.2, 15.3        | 68                        | 5.3                |                           |                   |