

**Directions:** Each passage is followed by several questions. After reading a passage, choose the best answer to each question and fill in the corresponding oval on your answer document. You may refer to the passages as often as necessary.  
 You are NOT permitted to use a calculator on this test.

Sylvatic, or jungle, Yellow Fever is caused by a virus transmitted by mosquitoes from monkeys to humans. Figure 1 shows the life cycle of the mosquitoes who carry this disease. These mosquitoes' eggs do not hatch unless there is enough water for the next two stages of their life cycles. Yellow Fever is passed when an adult of these mosquitoes first bites a monkey that is infected with the virus and then bites a human.

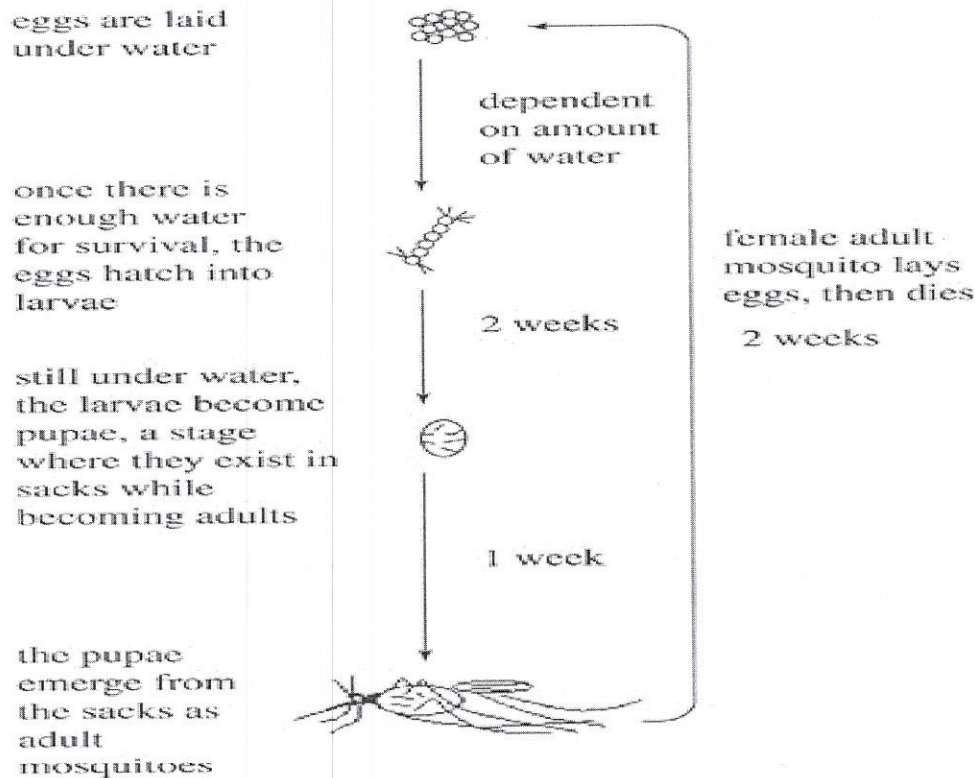


Figure 1

A study was done on a group of ecologists who went into a jungle where the monkeys carrying the Yellow Fever virus live. These ecologists were divided into groups based on how frequently they went into the jungle. The ecologists were tested monthly for Yellow Fever. Figure 2 shows the number of new cases of Yellow Fever and the amount of rainfall in the jungle. For each group, Table 1 shows the number of ecologists in each group, number of mosquito bites, and percent of each group with Yellow Fever.

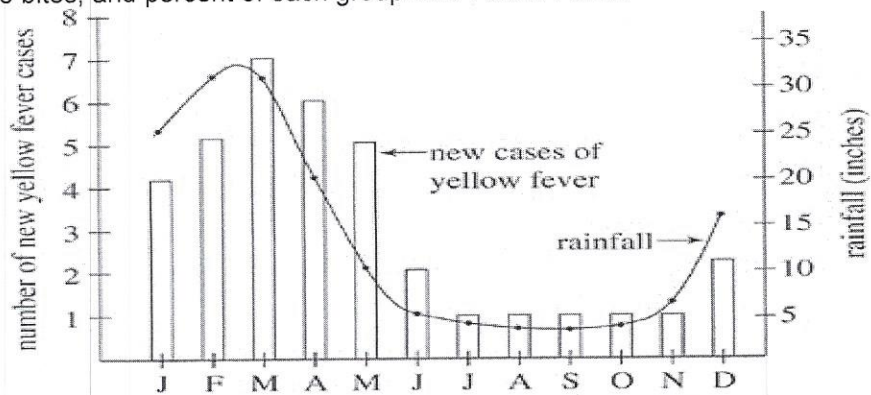


Figure 2

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Group	Number of ecologists	Number of trips	Number of monkeys seen	Number of mosquito bites	Percent of group affected by yellow fever
A	10	0-5	36	100	10%
B	12	5-10	20	156	18%
C	10	10-15	43	210	29%
D	11	15-20	38	220	38%
E	13	20-25	58	338	52%

- Based on Figure 1, what is essential in maintaining the mosquito population?
  - A. Jungle
  - B. Water
  - C. Monkeys
  - D. Humans
- Based on **Table 1**, the average percent of ecologists affected by the yellow fever virus was closest to:
  - F. 20%.
  - G. 30%.
  - H. 60%.
  - J. 80%.
- Suppose additional data had been gathered for **Table 1** about the number of mosquito bites per month. Based on Figure 2 and **Table 1**, in which of the following months would you expect to have the largest total of mosquito bites per month?
  - A. April
  - B. June
  - C. August
  - D. November
- According to Figure 2, the amount of rainfall was different for each of the following pairs of months EXCEPT:
  - F. May and December.
  - G. February and March.
  - H. January and October.
  - J. April and May.
- Based on **Table 1**, as the number of trips into the jungle increased, the number of monkeys seen:
  - A. increased only.
  - B. decreased only.
  - C. increased, then decreased.
  - D. varied with no consistency.