## Answers to Queries Exercise Solutions

Suppose a program has the following answer sets:

$$A_1 = \{p(a), p(b), q(b), \neg s(a)\} A_2 = \{q(b), r(a), \neg s(a)\}$$

How would it answer the following queries?

1. 
$$s(a)$$
 — No

- 2. r(a) Unknown
- 3.  $\neg s(b)$  Unknown
- 4.  $q(b) \wedge \neg s(a)$  Yes
- 5.  $q(b) \wedge p(a)$  Unknown
- 6.  $\neg q(b) \wedge p(a)$  No
- 7.  $p(a) \lor r(a)$  Yes
- 8.  $\neg p(a) \lor \neg s(a)$  Yes
- 9.  $p(a) \lor p(b)$  Unknown
- 10.  $\neg q(b) \lor s(a)$  No