

1- Which answer option is a correct statement about the following ASP program (in **Problem 1**)?

$$p$$
$$r \leftarrow p \wedge q$$

- ☐ This ASP program has exactly 2 stable models.
- ☐ This ASP program is a definite program.
- ☐ This ASP program is NOT a positive program.
- ☐ This ASP program is unsatisfiable under propositional logic.

The correct answer is B. This ASP program is a definite program.

2. Which answer option is a correct statement about the following ASP program (in **Problem 2**)?

$$p \leftarrow \neg q$$
$$q \leftarrow \neg p$$

- ☐ This ASP program is a definite program.
- ☐ This ASP program has exactly 2 stable models.
- ☐ This ASP program is a positive program.
- ☐ This ASP program has no stable model but is satisfiable under propositional logic.

The correct answer is B. This ASP program has exactly 2 stable models.

Which answer option is a correct statement about the following ASP program (in **Problem 3**)?

$$p \leftarrow \neg p$$
$$p \vee q$$

- ☐ The critical part of the propositional rule in the ASP program is the “p” in the body of the first rule.
- ☐ This ASP program has exactly 1 stable model and is satisfiable under propositional logic.
- ☐ This ASP program has exactly 2 stable models.
- ☐ This ASP program is a definite program.

The correct answer is B. This ASP program has exactly 1 stable model and is satisfiable under propositional logic.