Short Answer Type Questions – I

[2 marks]

Que 1. A triangle ABC can be constructed in which BC = 5 cm, ∠C = 30° and AC – AB = 3.8 cm. State true or false and give reason.

Sol. True, because AC – AB < BC or AC < AB + BC.

Que 2. A triangle ABC can be constructed in which ∠B = 105°, ∠C 90° and AB + BC + AC = 10 cm. State true or false and give reason.

Sol. False, because ∠B + ∠C = 105° + 90° = 195° > 180°

Que 3. A triangle ABC can be constructed in which ∠B = 60°, ∠C = 45° and AB + BC + CA = 12 cm. Write true of false and give reason for your answer.

Sol. True, because ∠B + ∠C = 60° + 45° = 105° < 180°.