Q1. How will the force of attraction between two objects change if the separation between their centers, d is doubled?

= The force of attraction will be about one fourth of what it was before.

Q2. Will the force of attraction be different for each object if they vary in mass?

=Yes, the force of attraction will be different

Q3. Will halving (reducing by half) the mass of each of the objects change their force of attraction?

=Yes, the force of attraction will become one fourth

Q4. Now suppose you double the mass of one of the objects keeping the other constant, how will the force of attraction change? \*

= The force of attraction will also be doubled.

Q5. Will the force of attraction change if measured on a different planet?

= No, it will not change since G is constant.