Question 1:
Most students did well; some students give authentication protocols that are not based on the challenge-response approach. Authentication involves two operational steps: submitting a claimed identity and verifying the claimed identity. Many students miss out the first step.

Question 2:
Students largely did well in this question.

Question 3:
Students did very well in this question.

Question 4:
The common mistake in this question is that the security properties of integrity, non-repudiation of origin and anti message replay were not addressed properly.

Some useful statistics:

In total, 70 students sit in the exam.

Question 1: taken by 52 students, and the average mark is 49%;
Question 2: taken by 52 students, and the average mark is 66%;
Question 3: taken by 66 students, and the average mark is 71%;
Question 4: taken by 40 students, and the average mark is 37%;

The overall average mark = 56%.