

## Case Study

Trainive is a provider of short online courses. Users can sign up as student and enrol in any course by paying a fee. They should complete the course within the allocated timeframe. Students are required to clear all the assessments before passing a course. Certificates are awarded to successful course participants. Payment processing is not handled by Trainive, but external providers.

### Question Group A

1. For the above information system, identify and discuss a possible threat against (a) integrity (b) confidentiality (one threat each). Be specific to the case study!  
Secondly, propose and briefly discuss a security measure against each threat.
2. Using examples, explain the security design principles of psychological acceptability and separation of privilege.

### Question Group B

1. For the above information system, identify and discuss a possible threat against (a) utility (b) availability (one threat each). Be specific to the case study!  
Secondly, propose and briefly discuss a security measure against each threat.
2. Using examples, illustrate the difference between defense and mitigation risk control strategies.

[ (8 + 4) + 6 marks]