

6 Security (mgk25)

- (a) What is the purpose of the `HttpOnly` flag in the HTTP protocol? Briefly describe an attack that this flag was intended to prevent. [4 marks]
- (b) Users of web sites often commit transactions by filling out an HTML form and pressing a “Submit” button to update some state stored on a server (e.g., password change, purchase).
- (i) HTML forms can submit such requests using either the `GET` or `POST` method of HTTP. Which is more appropriate here? Give *three* reasons. [6 marks]
- (ii) Some web servers place an additional token value into an invisible field of HTML forms that are used to commit security-critical transactions. What security risk can such a token mitigate? [4 marks]
- (iii) Explain *three* additional checks that a web server may implement to reduce this risk? [6 marks]