

Unit 23: Web security and regulations

Candidate:

Assessor:

Date:

AO	Pass	Merit	Distinction
AO1 Research and describe current and past security risks	Candidates research and provide a basic description, supported with few examples , of: three security breaches, two examples of fraudulent use of e-communications, one hazard through site overload and two examples of hardware or software being contaminated or ruined through e-communications. They describe, in basic terms, the vulnerability of WLANs (wireless local area networks).	Candidates research and provide a detailed description, supported with appropriate examples, of: three security breaches, two examples of fraudulent use of e-communications, two hazards through site overload and two examples of hardware or software being contaminated or ruined through e-communications. They clearly describe the vulnerability of WLANs.	Candidates research and provide a comprehensive description, supported with a variety of well chosen examples, of: three security breaches, two examples of fraudulent use of e-communications, two hazards through site overload and two examples of hardware or software being contaminated or ruined through e-communications. They evaluate the vulnerability of WLANs.
	Earlier security breaches: eg, Labour Party Photo Gallery, Data Leak from a University Careers site, USA theft of credit card details from an eCommerce enterprise Web scams such as: phishing, impersonation of log-on screens, invitation to join money-laundering schemes Security Risks: Site overload through: eg spamming, flaming; Hardware violations; Software infections: viruses, worms, Trojans; data corruption		
	P M D		
AO2 Investigate measures to control security risks	Candidates demonstrate a basic understanding, supported with few examples, of four valid measures, covering hardware and software that a website controller could use. They demonstrate a basic understanding of two ways of controlling access to a website.	Candidates demonstrate understanding, supported with appropriate examples, of the effectiveness of six valid measures, covering hardware, software and procedures that a website controller could use. They demonstrate understanding of two ways of controlling access to a website.	Candidates demonstrate understanding, supported with a variety of well chosen examples, of the effectiveness of eight valid measures, covering hardware, software and procedures that a website controller could use. They demonstrate understanding of the effectiveness of two ways of controlling access to a website.
	Software: firewalls, virus checker, virus definition, encryption (Public-key, Pretty Good Privacy, digital signatures) anonymisers, remailers Hardware: quarantine machine Procedures: passwords, machine id, activity monitoring, backup procedures, restore procedures Protection measures: register all users, password access, levels of account, virus scan.		
	P M D		

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AO3 Investigate and describe measures to repair breaches of security	Candidates describe generic methods of repair.	Candidates describe generic methods of repair, using appropriate examples to support their descriptions.	Candidates describe in detail methods of repair, using a variety of well chosen examples to support their descriptions.
	Precautionary: back ups Recovery: manual repair, repair programs, file recovery		
	P M D		
AO4 Review current relevant legislation and investigate examples of websites to see how they have complied with legislation	Candidates will briefly describe how website legislation has been applied by businesses. Their report is supported by few examples and based on limited research. Website legislation covered will include, as a minimum, Privacy Directive and Copyright and Intellectual Property laws.	Candidates will describe in detail how website legislation has been applied by businesses. Their report is supported by a range of examples and based on research. Website legislation covered will include, as a minimum, eCommerce regulations, Privacy Directive, Copyright and Intellectual Property laws.	Candidates will provide a comprehensive evaluation of how website legislation has been applied by businesses. Their report is, supported by a wide range of examples and based on extensive research. Website legislation covered will include, as a minimum, accessibility requirements, eCommerce regulations, Privacy Directive, Copyright and Intellectual Property laws.
	P M D		

AO1	AO2	AO3	AO4

Overall: