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Information Systems are now central to our society, with consequences for the individual, society and the organisation. The consequences of information security failures are now both significant and irreversible. The need for robust information systems security is now urgent as more organisations come to recognise that these vulnerabilities represent a real threat to their organisation's intellectual property, legal compliance and profitability. As the need has arisen to combat this threat with an appropriate response, solutions have emerged in many forms – many of which are targeted at helping organisations defend themselves against cyber attacks. It is common knowledge that any computer-based system can be accessed by unauthorized people through various channels. This security breaching is facilitated both by the anonymity provided by the Internet and its inherent vulnerabilities. No system is completely safe from such unauthorized access. Hence, there is a need for a more effective means of protecting information that is transmitted over computer networks. Information Systems Security deals with the technical and application aspects of security in relation to information systems. It deals with protecting computers and associated networks and the information they process and store against illegal or unauthorized activity (such as: system penetration, espionage etc.). This includes: data encryption; protection of privacy; firewalls; authentication; access controls; audits; incident response etc. The field of Information Systems Security relates to Protection of Information Systems (PoIS). It provides a unified, comprehensive and integrated approach to the security of information systems by describing the particular security problems that occur in information systems. In other words, Information Systems Security enhances security in an enterprise's computer system by minimizing the chances of an unlawful activity from occurring. In general, Information Systems Security involves protecting both business data and technology infrastructure against penetration through malicious hacking or otherwise. The aim is to keep unauthorised users out of corporate networks while enabling authorised users to access secured data across different platforms and locations. Information Systems Security plays a vital role in safeguarding corporate assets and its continued operation. Information Systems Security is a consequence of the nature of the information itself and how it is transmitted. Both information systems and information security are constantly evolving as technology extends into new frontiers. Businesses know that the nature of today's business is dependent on technology and that they must have a solid plan for protecting their data from external threats. In order to make these plans more effective, information system security is a necessity, as well as an integral part of business planning. In addition to protecting informational assets from external threats, Information Systems Security must also be embedded within the organisation itself, with policies for both employees and contractors being administered centrally to ensure consistency across all business activities. Information Systems Security is a fairly new field with many unresolved issues. Although the importance of Information Systems Security is reflected in its containment in various Acts, little has been done to protect the data from internal threats. This is where data encryption comes into play. Information systems security seeks to minimize risks and vulnerabilities associated with information technology by addressing threats through a combination of policies, procedures and technical controls. Information systems security must be a primary concern for every organization since most organizations operate in a highly insecure environment where information technology can provide easy access to confidential information without detection. Hence, organizations need an effective means of controlling access to their systems and the data they contain.

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