

HSC 2001 - Information Processes and Technology Band 5/6 - Sample 1 Question 25

25 (a)(i) The advantages of 'grand father, father, con' backup is that then are ceneral kopper of the marter file in case of disacter There are several copies that can be used to recover lost data. Also, the backpops would be placed at different locations, so the loss of a 'son' backup may not effect the 'coster and grandfather' backups (ii) These procedures chould be tected periodically is in case of a real disacter, the efficiencies of the alternative moredures would be maintained and the organication can continue with their normal business operations. Also, these procedures should be tested frequently so

all staff would know the roles they are required to take

Mare of the computer is not available and can

Onthinke with norm al business operations

(90) The website chould be directly linked to the dotabase that controls the invertory (the types of ples available) so that customers can find of Whether the pie is anallable before or dering it. The website should provide an online form so that customers can



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they details, verify dota transactions than advers can than be sent to the sales sy clean which would ultimodely process from in realting and give direct contrimation of the transaction: The website should provide ways to purchase and mate orders online using we dit could as as orders with credit coulds do not have to be processed manually by state. The credit card details are lodged and to country Baters where these credit could bransactions can be sent exectionically to the bank without prove.

(III) that Iccues concerning these modifications include: bata security - encryption is needed to cucyecsfully transfer actoment details to the company sately. (betomen's need a peace of mind whilst transferring data. A Network - a network system (extranat) needs to be developed to caticity the customers needs and query es. This should be catered towards the customer as there is ease of use whilet ordening. Online torms - the torm must be nex-friendly towards the cusponer. This means non-technical putched processes where the requirements of the form are chearly crosed and the customer

HSC 2001 - Information Processes and Technology Band 5/6 - Sample 1 **Question 25** BOARD OF STUDIES can order efficiently and easily. Automation of Jobi - staff may be concerned about the use of a website to do to be that were previously completed by flight. Staff hopds to know that this system will benefit their host and would be trained to be multi-stilled in areas concerning the Internet. Fast lertheral - Tight althout Reliability - a backup plan which is efficient is needed if the website does breat down at some stage. An alternative solution is needed to replace operations done by the websile as it is does provide the majority of bucilless to country Baters. A retroble backup syctem is needed to recover from unexpected errors. (e) (c) With the introduction of this new cystem data accuracy, ecurity and integrity may be senerally attented. In data accuracy, data needs to be consist to be transferred from one bant account to another This nears there should be atomicity where all steps in the transfer of data needs to be completed or the transaction is abandoned.



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This means that data are made permanent manger to the dostabase In data security, watomers chard be at peace when transferring data - encryption is a method in which data can be transferred safely tata should not be entered by unauthorised personnel of both hance. If at the transaction chould be concurrent where only one uses can change a record that one time (the use of record locking) before another user (an change it. The money transfer chould be secure, and both banks need to maintain high security with transfer procedures Data integrity is the writent, relevent and accurate nature of data. Money transfers between bank accounts should be real time and the changes to records should be up-to-date. Errors should be verified by watermars with data validation techniques eq Rouge Type, Ust Check of Check Digit. The dota should be accurate for the customer and them immediate changed to both records at both bants are needed. Customers wan to be assured that their transactions are successful and complete before proceeding. Bonts need to ensure that their convices are secure, and safe for the customer