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9691 COMPUTING

9691/03

Paper 3 (Written Paper 3), maximum raw mark 90

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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(b) - Accuracy

- Less chance of error/less chance of missing something

- Up to date

- can be kept permanently up to date

- VANS

- arranges for transfer of data from one place to where it is needed

- Data mining

- the ability to trawl large quantities of data to find relevant information

- Security

suitable expansion

(1 per -, max 3 pairs, max 6)

[6]

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10



Mark Points:

- Recognisable syntax diagram showing sequence
- Single letter possible
- Two letters, without more, possible
- Single digit possible
- Loop for multiple digits...
- inside \$ loop
- Dollar loop correctly positioned to miss Digits and &
- & after digits loop
- (1 per -, max 6)

[6]

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Page 7	Mark Scheme	Syllabus	· Q	er
	GCE A/AS LEVEL – May/June 2007	9691	Do	

- anbridge.com **11 (a)** External level gives the different views of the data seen by each of the users. Conceptual level is an integration of all the user views of the data/abstract represent the whole database/relationship between tables Internal level is the structure used for storage of the data/the logical arrangements o data for storage.
 - (b) (i) Used to define the data tables
 - Specifies data types/structures
 - Specifies constraints on the data
 - (ii) Allows the user to:
 - Insert
 - Update
 - Delete
 - Modify/edit
 - Retrieve data
 - (1 per -, max 2 per dotty, max 4)

[4]

- **12** All staff will need training relevant to their work
 - Many staff will find the new systems difficult to learn
 - Type of training important:
 - Course type with trainer
 - restricts learning times/can be intimidating/difficult to satisfy all demands/gives human contact for help
 - Electronic/Software based
 - Training on system at time user is free/individual training takes away intimidation/allows for practice/repetition/may not have access to equipment/has to be done in own time
 - Age problem of trainees/young have preconceptions, old have worries of ability
 - Customers have problem with new systems/must learn new procedures
 - Change of enquiries/ordering procedures to on-line

- Necessary regular upgrades of software and hardware cause repeats of problems as training needs to be repeated.

- Computer based system implies training should be on computer
- Reluctance on the part of staff to learn/use new methods
 - (1 per -, max 7)

[7]