MODULE H SOFTWARE · H5

User management and file management: mark scheme

20 marks · Cambridge 0478 syllabus 4.1.2: the role and basic functions of an operating system, including managing files, providing system security and managing user accounts

How to use. One mark per creditworthy point up to the maximum shown. **/** separates alternative words; **//** separates alternative answers. Words in (brackets) are not needed for the mark. **...** means the point builds on the one before. Credit any other valid answer that shows the same understanding. No marks for brand names.

QUESTION	ANSWER	MARKS	GUIDANCE
1(a) 0478 4.1.2	One mark for each correct row: More than one user account on the same computer: True Moved file also stays in its original folder: False Managing user accounts and providing system security are OS functions: True Any user can change another user's access rights: False	**4**	A row with both boxes ticked scores 0.
2(a) 0478 4.1.2	Any three from: The manager logs in with an administrator account // only an administrator can create accounts Creates a new user account for the receptionist Sets a username / user ID for the account Sets a (first) password // makes the receptionist set their own password (at first login) Sets the access rights / permissions for the account, e.g. which files / folders / programs the receptionist can open or edit Sets the type of account, e.g. standard user (not administrator) Gives the receptionist their own folder / storage area	**3**	max 3. Credit any other valid step in setting up an account. Do not accept "gives them a login" alone.

QUESTION	ANSWER	MARKS	GUIDANCE
3(a) 0478 4.1.2	One mark for each way (max 2) and one mark for each matching description (max 2), e.g.: Requires a username and password (to log in) ... so only authorised users can use the computer // see the guest records Locks an account after a number of incorrect password attempts ... so someone cannot keep guessing / trying passwords Access rights / permissions for files and folders ... so only users who need the guest records can open / edit them // other users are blocked Locks the screen / logs the user out after a period with no use ... so a person cannot use an unattended computer that is still logged in Keeps each user's files separate / private ... so other users cannot open / change them Provides a (built-in) firewall ... that checks / blocks unauthorised traffic into or out of the computer	**4**	max 4. A description mark only with its matching way. Credit any other valid security feature an operating system provides. Do not accept "makes it secure" / "stops hackers" alone. Two ways that are the same idea (e.g. password and login) score the way mark once.
4(a) 0478 4.1.2	Move // cut and paste // drag (the file) to the 2027 folder	**1**	Do not accept copy / save / rename.
4(b) 0478 4.1.2	One mark for each: **Can:** open / read / view / print the files // copy the files **Cannot:** edit / change / save changes to the files // delete the files // rename the files	**2**	Mark the first answer on each line. A "can" answer written on the "cannot" line (or the other way round) scores 0 for that line.
4(c) 0478 4.1.2	Any two from: Gives the file its name (and file type / extension) Stores / writes the file to secondary storage // puts it in the chosen folder (2027) Records where the file is stored // adds it to the folder structure ... so it can be found / opened later Checks the user has permission / access rights to save in that folder Checks / warns if a file with the same name is already in the folder	**2**	max 2. Do not accept "stores it in RAM / primary storage". Do not accept "saves it" alone.

QUESTION	ANSWER	MARKS	GUIDANCE
5(a) 0478 4.1.2	Any four from: Each receptionist has their own username and password // only they know their password Access rights can be set for each receptionist (to suit their job) Each receptionist's files / settings are kept separate / private It can be seen / recorded who logged in // who made a change When a receptionist leaves, their account can be deleted / disabled without changing everyone else's password A shared password is easier to pass on / find out // more people know it If one account is locked / compromised, the other receptionists can still log in	**4**	max 4. Do not accept "it is more secure" / "safer" alone (too vague). Credit any other valid reason.

Total: 20 marks