

1.

	System (✓)	Applications (✓)
A linker	✓	
A database		✓
An operating system	✓	
An applet		✓

4 correct ticks = **Two** marks
 2 or 3 correct ticks = **One** mark
 1 or 0 correct = Zero marks

	Internal (✓)	External (✓)
A monitor		✓
RAM	✓	
Printer		✓
Mouse		✓

4 correct ticks = **Two** marks
 2 or 3 correct ticks = **One** mark
 1 or 0 correct = Zero marks

2.

(a)	Part-time	1
(b)	Flexible working	1
(c)	Job-sharing	1
(d)	Compressed hours	1

3.

Four from:

Smartphones are more portable
 Smartphones are lighter in weight
 Desktops cannot be used on the move//desktops need surfaces to work on
 Smartphones have integral devices//desktops have separate keyboard/monitor
 Smartphones can use 3G/4G/5G communications link
 Smartphones are battery powered//Desktops require a constant power supply
 Desktop requires extra hardware/software
 Desktop computers have a larger screen
 Desktop computers have a larger keyboard
 Desktop the footprint is larger
 Desktops more powerful
 Smartphones have more chance of being damaged/stolen as they are portable
 Smartphones tend to use modified websites//desktop can access more websites

4.

Maximum **four** from:

Similarities
 Both WiFi and Bluetooth use wireless communications
 Both WiFi and Bluetooth use radio frequencies for communication/radio waves
 Both WiFi and Bluetooth allow several devices to be connected
 Both use security when sending data

Maximum **five** from:

Differences
 WiFi has faster data transfer rate
 WiFi has a greater range of transmission
 WiFi uses key matching encryption
 Bluetooth uses WEP and WPA security together
 WiFi can be broadcast
 Bluetooth has more channels
 Wifi connects more devices

5.

Six from:

Intranet has restricted access/its private//Internet is world-wide/everywhere
 Intranet is used only within a company/organisation/school
 Intranet access has more control of data whereas the internet access is open/public access//the internet anyone can add material
 Intranet is policed/moderated/managed
 The intranet has reduced unauthorised access to material whereas the internet has content that is general
 Intranet can restrict access to some websites//internet has no restrictions on websites
 Data on the intranet is more reliable/relevant//anyone can add material to the internet
 Intranet sits behind a firewall
 Intranet is protected by passwords/has an extra layer of security/more secure//more chances of hacking on the internet
 Intranet is used to give information relating to the company whereas the internet gives general information
 Internet has more information

6.

	3D (✓)	Laser (✓)	Dot matrix (✓)
This printer prints layer by layer	✓		
This printer is an impact printer			✓
This printer is a form of ink jet printer	✓		
This printer produces high quality output quickly		✓	

4

7. Maximum **five** from **each** of: **6**

Advantages:
 Regular automatic upgrades of the applications software on the cloud//On HDD the user may have to upgrade manually
 Application software can be used on other devices, automatically, from same subscription//With HDD application software has to be installed manually on each computer
 All devices tend to work with the cloud, but some devices may not contain a HDD
 Saves hard disk space
 Software in the cloud is stored externally, only program data stored on hard disk
 Access software anywhere
 Applications software is centrally stored
 Software is automatically backed up//Applications stored on the HDD needs to be backed up manually
 Some software can run offline if the connection is unstable
 Applications on the cloud tend not to be lost whereas you could lose/damage/corrupt your computer and HDD

Disadvantages:
 Must be connected to the internet for it to operate
 If the network connection breaks as data is being saved//loaded it may be corrupted
 If the internet crashes, then any data may not save
 Can be difficult to locate an up to date copy
 Annual subscription cost for software, may be more expensive than buying a copy of the software on a CD
 You never own the product
 Product is leased from the company//if the user does not pay then the product is locked out

8.

(i)	MICR	1
(ii)	PIN pad	1
(iii)	Bar code reader	1
(iii)	RFID reader	1

9.

(a)	Physical components of a computer system	1
(b)	One from: Programs for controlling the operation of a computer Programs for processing of data	1
(c)	One from: System Applications Touchscreen	1
(d)	Touchscreen	1

10.

	ROM	RAM	HDD
It loses its data when the computer is switched off.		✓	
It is classed as backing storage.			✓
It stores the start-up instructions of the computer.	✓		
It temporarily stores the current work of the current user.		✓	

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11.

RFID
MICR

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