

Grade 12

Grade 12 (Hardware)

True or False (20)

Indicate whether the following statements are TRUE or FALSE. Motivate your answer if, in your opinion, a statement is FALSE.

- An All-in-One computer is one with a touchscreen but it can also be used together with a keyboard.
- Google Glass is 'computer spectacles' which also offers you Internet access.
- You will need Adobe Reader to read QR codes (see image on the right).
- An interactive whiteboard (IWB) is dependent on a wireless mouse and keyboard for functioning.
- Bluetooth refers to a new technology used in the manufacturing of Blu-ray discs.
- The Insert key on your keyboard activates the overtyping feature.
- MICR is a voice recognition device that will type or project your speech on screen.
- The Escape key can be used as a shortcut key in dialogue windows for NO, EXIT or CANCEL.
- 'Spooling' is a term referring to 'spammers' who use false e-mail addresses in an attempt to access computer systems illegally.
- This symbol is used to depict wireless technology.



Solutions (20)

True or False

1.	TRUE [✓]	
2.	TRUE [✓]	
3.	FALSE [✓]	A QR reader on your cellphone will be able to read it. [✓] It can be downloaded free of charge on your cellphone. QR stands for Quick Response, it can decipher code in an advertisement, e.g. URL, prices, etc.
4.	FALSE [✓]	A mouse and a keyboard are not necessities, especially if it is an All-in-One computer. [✓] It will need a projector for projecting the desktop of the connected computer onto the whiteboard and the user can then write/draw with his finger, a pen or a stylus.
5.	FALSE [✓]	Bluetooth is 'n standard for a wireless technology, ideal for communication over short distances (10 m or less). [✓]
6.	TRUE [✓]	
7.	FALSE [✓]	It stands for Magnetic Ink Character Recognition and is a universal 'language' used by banks, especially on cheques. [✓] It refers to the magnetic numbers/code on a cheque that can be read by a special device.
8.	TRUE [✓]	
9.	FALSE [✓]	'Spooling' refers to print jobs that cannot be executed immediately. They are then temporarily kept in a buffer somewhere on the disk until the printer gets it from there to be printed. [✓]
10.	TRUE [✓]	

Grade 12 (Network & Internet Technologies)**Multiple choice (10)**

Questions 1 and 2 refer to the screenshot below.



1. The screenshot illustrates the way in which you can subscribe to _____.
 - A. a YouTube video
 - B. an online software training program
 - C. a free web-based e-mail service
 - D. a news aggregator

2. Which one of the following statements regarding an RSS feed and the screenshot is TRUE?
 - A. The RSS feed referred to in the screenshot, will provide up-to-date information and news on South Africa for investors, tourists, citizens, etc.
 - B. There is an annual cost involved which you have to pay as soon as you click on Subscribe.
 - C. The RSS feed will automatically be added to Favorites > Feeds and kept up-to-date when you are online but only if Internet Explorer is active.
 - D. To unsubscribe from a different existing feed, click on Cancel.

3. Digital communication can be used for many purposes. Which one of the following can NOT be seen as good practice in the use of digital communication?
 - A. Notifying the public of road closures for a road race by means of Twitter.
 - B. Delivering online sales and service, e.g. obtaining your telephone account online.
 - C. Recruitment of staff by using LinkedIn or Gumtree.
 - D. Using instant messaging or social networks to spread information about an illegal gathering in order to increase the crowd and hinder security forces in their task.

4. Which statement regarding digital communications is FALSE?
 - A. Google Maps and GPS offer exactly the same service.
 - B. Websites that end with **.mobi** are designed to work on your cellphone.
 - C. Android (Google), iOS (Apple), and Windows Phone are all mobile operating systems for cellphones.
 - D. Web hosting means storing your website on a public server and normally includes both e-mail services and domain name registration.

5. Which one of the following statements with regard to YouTube is FALSE?
 - A. Prohibited material includes content uploaded without the copyright holder's permission.
 - B. YouTube is a subsidiary of Microsoft.
 - C. You can make money on YouTube depending on how much advertisers are willing to pay per 'click through' to their sites.
 - D. You may upload a 'how to' video that shows a certain software user interface if you have paid a licencing fee to the publisher.

6. When you receive an e-mail that has an attachment and forward it, _____.
 - A. the attachment is automatically also forwarded to the new address
 - B. the message is sent without the attachment
 - C. you have to re-attach the file if you want it to be sent
 - D. you have to first save the file on your hard drive before you can forward both the message and the attachment

7. When you receive an e-mail that has an attachment and reply to it, _____.
 - A. the attachment is automatically saved in the Drafts folder
 - B. both the original e-mail and attachment are deleted from your Inbox
 - C. the attachment is not included with the reply
 - D. you must first save the attachment under a new name in Word/Excel

8. Which one of the following statements with regard to social networking is FALSE?
 - A. Your name on Twitter must be preceded by the @-sign, e.g. @catfundi.
 - B. A 'tweet' is the way you make a content contribution to all social networking sites.
 - C. You can synchronise your Twitter and Facebook accounts with your smartphone to receive and write text messages and receive updates.
 - D. You can add a photo to your profile.

9. Which statement does not fit in with the rest? Blogging is a form of social networking but can also be used by businesses and other enterprises in order to _____.
 - A. post tips or 'how to' steps for a software application
 - B. announce changes, new products, upgrades and events
 - C. e-mail information about appointments and meetings and send out reminders
 - D. deal with reflections or opinion and can include links to other articles

Question 10 refers to the screenshot below.

You are viewing a feed that contains frequently updated content. When you subscribe to a feed, it is added to the Common Feed List. Updated information from the feed is automatically downloaded to your computer and can be viewed in Internet Explorer and other programs. [Learn more about feeds.](#)

 [Subscribe to this feed](#)

10. Which one of the following statements regarding RSS feeds is FALSE? RSS feeds can be read by _____.
 - A. a web browser like Internet Explorer
 - B. an e-mail program like Outlook 2007/2010 or Windows Live Mail
 - C. a word processing program like Word 2007/2010
 - D. a downloaded and installed aggregator like NewsBlur

Solution (10)

Multiple choice

1.	D		6.	A
2.	A		7.	C
3.	D		8.	B
4.	A		9.	C
5.	B		10.	C

Grade 12 (Solution Development: Access)

Short questions (15)

1. Answer the questions based on the following database table.

ID	Surname	FirstName	Subject A	Subject B	DoB	Bursary
3	Adamas	David	Business Studies	Life Sciences	1994-04-23	<input checked="" type="checkbox"/>
15	Bilankulu	Solomon	Business Studies	History	1994-08-31	<input checked="" type="checkbox"/>
6	Binedell	Jennifer	CAT	History	1994-04-19	<input checked="" type="checkbox"/>
13	Butler	Shaun	CAT	Geography	1995-11-09	<input type="checkbox"/>
8	Carter	Wendy	Consumer Studies	Drama	1994-08-04	<input type="checkbox"/>
7	Craigen	Anne	CAT	Life Sciences	1994-02-04	<input checked="" type="checkbox"/>
10	Deacon	Terence	Business Studies	Geography	1994-12-19	<input type="checkbox"/>
19	Hammond	Orana	CAT	History	1995-07-12	<input checked="" type="checkbox"/>
11	Hawkins	Nick	IT	Life Sciences	1994-07-16	<input checked="" type="checkbox"/>
12	Jensen	Olivia	Business Studies	Life Sciences	1994-11-10	<input type="checkbox"/>
9	Jones	Dennis	Business Studies	History	1995-09-08	<input type="checkbox"/>
1	Josephs	Miriam	CAT	History	1995-04-17	<input checked="" type="checkbox"/>
5	Marais	Arturo	IT	Life Sciences	1995-05-04	<input type="checkbox"/>
14	Mlatt	Erina	IT	Geography	1995-04-30	<input checked="" type="checkbox"/>
17	Naidoo	Vinnie	IT	Life Sciences	1995-08-20	<input type="checkbox"/>
18	Namdodzi	Lero	CAT	Geography	1994-07-22	<input type="checkbox"/>
16	October	April	Consumer Studies	Drama	1995-06-22	<input checked="" type="checkbox"/>
4	Raven	Peter	Business Studies	Drama	1995-02-14	<input checked="" type="checkbox"/>
2	Smith	Celina	IT	Life Sciences	1994-03-27	<input type="checkbox"/>

Record: 19 of 20 No Filter Search

- 1.1 What will be the ID of the next record? (1)
- 1.2 How can you quickly create a filter to determine which students take both IT and Life Sciences? (2)
- 1.3 Which field has a Yes/No data type? (1)
- 1.4 What format of the date was used in this table? (1)
- 1.5 Why are the ID numbers of the students not in numerical order? (2)

Solution (Part 1) Short questions

- 1.1 21 (1)
- 1.2 Click on the down-arrow next to the column/field heading [✓] and choose IT from the Subject A list and Life Sciences from the Subject B list. [✓] (2)
- 1.3 Bursary (1)
- 1.4 Short date (1)
- 1.5 The student names are entered as they register and are numbered consecutively. [✓] Once the names are sorted alphabetically, they retain [✓] the original ID that was allocated. (2)

2. Look at the screenshot of a report below and then answer the questions that follow.

Subject A			
Subject A	Mark Subj A	Surname	FirstName
Business Studies	32	Bilankulu	Solomon
	42	Deacon	Terence
	45	Raven	Peter
	69	Jensen	Olivia
	74	Adamas	David
	74	Jones	Dennis
Summary for 'Subject A' = Business Studies (6 detail records)			
Avg	56		
Min	32		
Max	74		

- 2.1 Which field has been selected as the grouping option in this report? (1)
- 2.2 Which Sort option has been used in this report? (2)
- 2.3 Name the summary option(s) selected to be displayed in this report. (3)
- 2.4 Provide the calculated field expression for the AVERAGE function as displayed here. (2)

Solution (Part 2)

Short questions

- 2.1 Subject A (1)
- 2.2 Mark Subj A [✓] ascending [✓] (2)
- 2.3 Avg (Average); [✓] Min (Minimum); [✓] Max (Maximum) [✓] (3)
- 2.4 =Avg([Mark Subj A]) [✓✓] (2)

Grade 12 (Solution Development: HTML)

Match the columns (15)

Match the term/tag/attribute in column A with the explanation/description in column B.

COLUMN A		COLUMN B	
1.	<tr>	A	This attribute increases the 'white space' on either side of the table data.
2.	#000000	B	The combination of red, green and blue colour values.
3.	FF	C	Syntax for defining an image.
4.	hex triplet	D	This is the opening tag for table data, i.e. text or data within a table cell.
5.	</td>	E	The attribute that refers to the source of an image.
6.	<table border="1">	F	HEX notation for 'black'.
7.	src attribute	G	This opening tag defines a table row.
8.	<table cellspacing="3">	H	RGB colour definition for 'gray'.
9.	#FF8800	I	Defines a header cell in a table.
10.	<th>	J	This is the closing tag for table data, i.e. text or data within a table cell.
		K	The highest HEX value for a colour.
		L	This attribute describes the thickness or 'weight' of a cell/table border.
		M	HEX notation for an orangey colour, i.e. red with green overtones.

Solution (10)

Match the columns

1.	G
2.	F
3.	K
4.	B
5.	J
6.	L
7.	E
8.	A
9.	M
10.	I