|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **INFORMATION TECHNOLOGY GRADE 10 – NOVEMBER 2015 - PAPER 2 Memo**  Question 1   * 1. B   2. C   3. A   4. D   5. B   6. D   7. C   8. C   9. A   10. D   Question 2  2.1 G  2.2 D  2.3 F  2.4 A  2.5 B  2.6 C  2.7 L  2.8 K  2.9 H  2.10 J  Question 3  3.1 False✓ – the www is a service that run on the internet✓  3.2 True✓  3.3 False✓ – it refers to how up to date the website is✓  3.4 True✓  Question 4  4.1 ½ mark or 1 per correct row – markers discretion✓✓✓   |  |  |  | | --- | --- | --- | |  | Laptop | Desktop | | Storage | 320GB | 500GB | | Output | 15.6” | 20” | | Connectors | 3 USB ports | 8 USB ports |   4.2 Any 2 reasonable advantages relevant to specs✓✓  Price  Portability  Camera  SD card reader  4.3 Microsoft windows 8.1✓  4.4 To control all the activities that take place in a computer;  Any 2 of: ✓✓  Provides an interface  Process and Task Management  Memory Management  Input/Output Management  Disk Management  4.5 Plug and Play✓  4.6 It enables the operating system to communicate with a hardware device✓✓  4.7 VGA or HDMI  4.8 To project a larger version of the teachers screen✓ so the whole class can see✓  4.9 Flash drive✓, external hard drive✓, SD card✓  4.10 Any 2 disadvantages – markers discretion ✓✓  eg: Input is harder with a tablet  How to connect to the projector?  RAM smaller  Storage smaller  Small screen  Question 5  5.1 Do not accept LEISURE as that is not a reason in a business/school environment  Any other 3 ✓✓✓  Fast, efficient communication  Centralisation of data  Transfer of files  Increased control and security  Flexible access  5.2 NIC  5.3 UTP – cheap✓ and range is up to 100m✓ at a time; Fibre, expensive✓ but range in kilometres✓.  Best answer: Fibre as a backbone as schools cover more than a 100m but UTP in classrooms, library etc. ✓  Accept: UTP because cheaper, easy to install.  \*\**Markers discretion really based on what you taught*    5.4 Network connection points are fixed in position and number✓  Cables have to be pulled through walls and ceilings✓  Lack of mobility✓  Alternative: a wireless network (WLAN) ✓  5.5   |  |  | | --- | --- | | ✓✓ | ✓✓ | |  |  |   5.6 Any 2 of:  The server can hold information centrally  More suitable for large number of computers  Faster  More secure    5.7 Fat clients run most things from their hard drive and use little network resource; ✓  Thin clients have no hard drives and rely on the server for storage and applications; ✓  The chosen computers are fat clients. ✓  Question 6  6.1 Wide Area Network✓ A network spread over a large geographical area ✓  6.2.1 https✓ – secure site for financial transactions✓  6.2.2 fnb.co.za✓  6.2.3 uk✓  6.3 1 correct example in 2 categories ✓✓  6.3.1 Any portal website eg MWEB, Google, MSN, Yahoo etc  6.3.2 Any News website eg, CNN, News24, IOL etc  6.3.3 Any Social Networking site eg Facebook, LinkedIn, Bebo, Instagram, Twitter  6.3.4 Any Advocacy site eg SPCA, Greenpeace, Cotlands etc  6.4 Spiders or bots are used to crawl the web and log keywords from web pages in a searchable database. ✓ The user enters a keyword, database is scanned and websites containing that keyword are returned as a list of possibilities✓  6.5 Any 2 of: ✓✓  Currency  Authority  Accuracy  Audience  Question 7  7.1 0 & 1 ✓  7.2 2 marks for expanded working. ✓✓ 1 mark for correct answer = 61✓  7.3 2 marks for expanded working. ✓✓ 1 mark for correct answer = 846✓  7.4 2 marks for expanded working. ✓✓ 1 mark for correct answer = 11111102✓  7.5 2 marks for expanded working. ✓✓ 1 mark for correct answer = 4B016✓  7.6 Any 2 of: ASCII, Unicode, UTF-8 ✓✓  Question 8  8.1 Concrete – limited, only works for one given set of inputs✓  Abstract – general, uses variables ✓  8.2.1 One ✓  8.2.2 Suggested solution – markers discretion  BEGIN  MarkTotal 🡨 0  TestTotal 🡨 0  Ask “Enter number of learners” ✓  Get numLearners✓  Ask “Enter number of tests” ✓  Get numTests✓  LOOP numLearners✓  Ask “Enter Learner Name”  Get LearnerName  LOOP numTests✓  Ask “Enter mark for test”  Get Mark  MarkTotal 🡨 MarkTotal + Mark✓  Ask “Enter total for test”  Get Total  TestTotal 🡨 TestTotal + Total✓  ENDLOOP✓ (correct position)  TermMark 🡨 MarkTotal / TestTotal \* 100  Display LearnerName, TermMark  ENDLOOP ✓ (correct position)  END  8.3.1 Input/Output✓  Instruction✓  Decision✓  Arrows/Links/Connector✓  8.3.2 210✓  8.3.3 Suggested answer:  Correct symbols used ✓✓  Correct logic shown ✓      Get Grade  IF Grade<40  Display “You Failed”  Y  N  Display “You Passed”  Question 9  9.1 The EULA is a licence agreement✓ in which you agree to use the software according to the companies terms – ie how many computers it can be installed on and if it can be distributed✓. It won’t install unless the teacher agrees to it. ✓  9.2 No✓ This is piracy ✓ and a breach of the copyright laws ✓ (accept suitable explanations referencing these points – ie not allowed to install on multiple computers, etc.)  9.3 Ergonomics is the study and design of the workplace to the comfort and safety of people in the work environment.  9.4 Any 2 – marker discretion. ✓✓  RSI; CTS; Headaches, Backache, Eyestrain  9.5 any 3 – marker discretion. ✓✓✓  - Sit correctly – no slouching;  - Adjust the height of the chair so that arms and hands are correctly position and feet flat on the floor  - Make sure lighting and ventilation is adequate  - Make sure the monitor is positioned at the correct level  - Turn your eyes away from the computer regularly  - Take regular breaks  9.6 The computer will continue to use power while on standby✓ – vampire power – and this is a waste of electricity. ✓  9.7 Any 2 – marker discretion ✓✓  - proofread before printing to avoid reprints  - print 2-sided and reduced  - only print if absolutely necessary – rather distribute a soft copy  9.8 Faster – email goes seconds or instant messaging or video chats etc✓  Cheaper – VoIP/Skype enables cheaper chats than phonecalls, sending docments by email cheaper than post/courier ✓  9.9 Any 3 valid points ✓✓✓  - Contains spelling errors  - Written in caps – ie shouting  - its a hoax and should not be forwarded  - contains personal information  - all the email addresses in the TO box  9.10 Malicious Software ✓ is software designed with negative intent ✓  9.11 Install an antivirus ✓  9.12 Any 2 valid points ✓✓  -computer slows down  - files disappear  - programs stop working  - free space suddenly reduced  - error messages start appearing for no reason  - computer doesn’t boot up  -antivirus reports a threat  9.13 Any 3 ✓✓✓  - don’t give out personal details  - don’t make arrangements to meet people you don’t know in person  - don’t use your real name in chat rooms or online games  - don’t accept file transfers from strangers  - think before you post or test online  - be aware that nothing is private  - be suspicious of perfect people trying to gain your trust  9.14 Identity theft is when someone steals your personal details✓ to commit fraud or crime. ✓ An email requesting personal details is called phishing✓  9.15 Using cables / wifi / Bluetooth and software ✓  Using cloud synching like dropbox ✓  9.16 E-waste✓ | **10**  **10**  **6**  2  1  2  1  **20**  3  2  1  3  1  2  1  2  3  2  **22**  3  1  5  4  4  2  3  **12**  2  2  1  1  2  2  2  **15**  1  3  3  3  3  2  2  1  9  4  1  3  3  3  1  2  3  2  2  2  3  2  1  2  3  3  2  1 |
|  |  |