 Province of the

EASTERN CAPE

EDUCATION

**DIRECTORATE SENIOR CURRICULUM MANAGEMENT (SEN-FET)**

**HOME SCHOOLING ANSWER SHEET**

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| **SUBJECT** | INFORMATION TECHNOLOGY THEORY | **GRADE** | 12 | **DATE** | 17 August to 21 August 2020 |
| **TOPIC** | Social ImplicationsConsolidation Exercise | **TERM 3****REVISION** | (Please tick) | **TERM 3 CONTENT** | ✓ |
| **TIME ALLOCATION** | 1hr | **TIPS TO KEEP HEALTHY**1. **WASH YOUR HANDS** thoroughly with soap and water for at least 20 seconds. Alternatively, use hand sanitizer with an alcohol content of at least 60%.2. **PRACTISE SOCIAL DISTANCING** – keep a distance of 1m away from other people.3. **PRACTISE GOOD RESPIRATORY HYGIENE**: cough or sneeze into your elbow or tissue and dispose of the tissue immediately after use.4. **TRY NOT TO TOUCH YOUR FACE.** The virus can be transferred from your hands to your nose, mouth and eyes. It can then enter your body and make you sick. 5. **STAY AT HOME.**  |
| **INSTRUCTIONS** | Resources used* Its gr8! @ grade12 theory, Study Opportunities
* Information Technology Theory Book Grade 12 , DBE
* Past Exam Papers

Answer all questions |
|  | Solutions 1.Complete the sentences on the different type of computer criminals.

|  |  |
| --- | --- |
| TYPE | DESCRIPTION |
| Hacker | A hacker is anyone who uses their computer skills to gain unauthorised access tocomputer systems or data. They can do this through a combination of exploits,scripts and social engineering. White hat hackers help companies improve theirsecurity by trying to hack into their computers, while black hat hackers (or cracker)illegally break into computer systems. |
| Cracker | This refers to hackers who e their skills illegally. They may break into computersystems for a variety of reasons, from stealing data to testing their skills to makingpolitical statements.The word cracker can also be used to refer to people who write software cracks(tools that allow software to be pirated and used illegally). |
| Virus author | A virus author is any person who writes a computer virus. Virus authors createviruses for several reasons, including causing damage, showing off their skills,gaining information or money or taking over computers and using them to sendspam emails. |
| Cyber gang orhacker group | This is a group of people who work together to commit crimes. They can be made upof many loosely organised members (like the group Anonymous) or they can be asmall team of specialists. |
|  |  |

2. Complete the table on the types of cybercrimes.

|  |  |  |
| --- | --- | --- |
| TYPE OF CRIME  | DEFINITION | EFFECT ON SOCIETY |
| Hardware hacking | Hardware hacking refers toattacks aimed at specific piecesof hardware. The goal of theseattacks is generally to unlock thehardware or remove artificiallimitations placed on thehardware. | For example, hacking gameconsoles, hackers can removethe software that stops themfrom playing pirated games.Many smartphones can also behacked, to give the owner accessto features that are normallylocked |
| Software hacking | Software hacking can refer tothree different types of hacking:● Finding software exploits● Breaking software protection● Hacking games | This allows people to play piratedgames or use pirated software.Software hacking can also referto game hacking, in whichhackers create software thatallows gamers to break the rulesof the game. |
| Information and website hacking | Website and information hackingare used for several differentreasons:● Steal users’ personalinformation for identity fraud● Steal users’ email addresses● Steal users’ passwords● Steal users’ credit cardinformation● Build a database of commonusernames and passwords● Deface the website or placepolitical messages on thewebsite● Reroute traffic from thewebsite to a phishing website | Loss of money trying to rectifythe hack |
| Bandwidth theft | Bandwidth theft occurs whenother one website uses theimages stored on and hosted byanother website | There are many companies thatallow images to be hosted ontheir website for free. Thisdecreases the need for hotlinking |
| Service theft | Service theft occurs on theInternet whenever someoneillegally uses a username andpassword to access an onlineservice | Rather than paying for their ownNetflix account, the service thiefmight steal your username andpassword and use it to watchNetflix for free |

3. • passwords • firewalls • encryption answer is subjective |
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