STUDENT SECTION						
Name			Class			
Student MOE number (SIS)	School MOE Number		STUDENT SIGNATURE			
School name			0			

# Computer Science

Grade 12

Term 2 Examination - Sample

Date: 6th March 2018

Time: 10:00am

**Duration: 45 minutes** 

STUDENT INSTRUCTIONS – Students must attempt **all** questions For this examination, you must have:

1. An ink pen – blue.

#### **TEACHER NOTES & INSTRUCTIONS**

Please tick the correct answers in <u>RED INK</u> and then write the mark awarded in the marking columns. With multiple mark answers highlight where the mark is awarded by <u>underlining</u> or by using an extra tick.

FOR ADMINIONLY				
FOR ADMIN ONLY MARKING RECORD				
Section	Section TOTALS			
Section 1				
Section 2				
Section 3				
Section 4				
Section 5				
MARKER SIGNATURE	TOTAL MARKS			
MODERATOR	SIGNATURE			
IVIODERATOR	SIGNATURE			

#### **SECTION 1 – Multiple Choice**

# Choose and circle the correct answer – A, B, C or D. (2 marks each) **Example:** \_\_\_\_\_ is adherence to a code that ensures data is real, accurate and safeguarded from unauthorized users. A. Exploit B. Integrity C. Hacking D. Threat 1. Penetration \_\_\_\_\_ is a method of testing and enhancing security measures on information systems A. security B. testing C. vector D. violation 2. \_\_\_\_\_ footprinting creates devices, endpoints or services within the target environment directly. A. Passive B. Port C. Indirect D. Active hacker is also known as a cracker or illegal hacker. A. white hat B. grey hat C. black hat D. script kiddie is the first phase of the ethical hacking process. A. footprinting B. reporting C. enumeration D. scanning 5. The acronym \_\_\_\_\_ indicates that data should be processed immediately. A. UDP (User Datagram Protocol) B. TCP (Transmission Control Protocol) C. ICMP (Internet Control Message Protocol) D. URG (urgent) / 10

## **SECTION 2 - True Or False**

Choose and circle the correct answer <b>TRUE</b> or <b>FALSE</b> .	(2 marks	each)
Example: Scanning is the fourth phase of penetration testing.	TRUE	FALSE
Footprinting is also known as Reconnaissance.	TRUE	FALSE
The domain name system (DNS) transforms domain names to IP addresses.	TRUE	FALSE
3. Computer worms are a type of port scanning.	TRUE	FALSE
4. Passive footprinting uses publicly available information on the internet.	TRUE	FALSE
5. A blue hat hacker is a blend of both black hat and white hat hackers.	TRUE	FALSE

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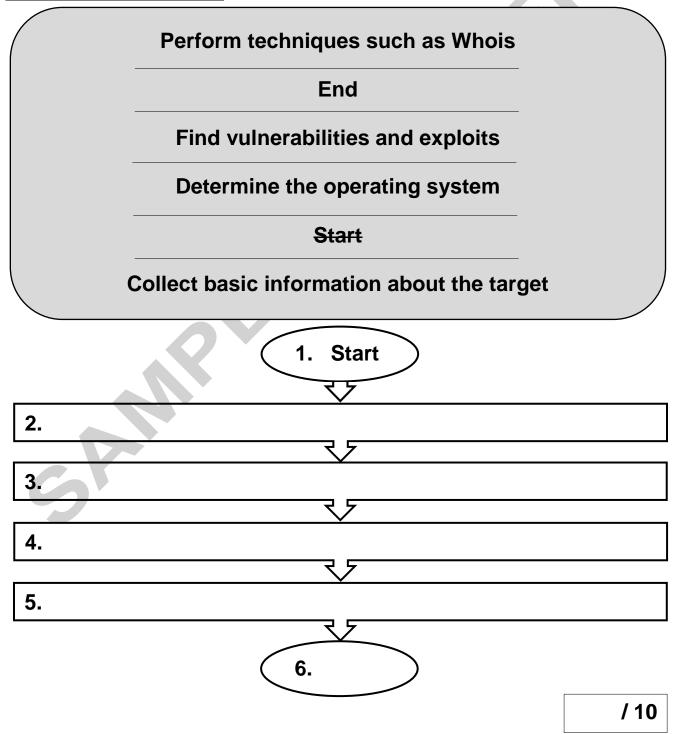
### **SECTION 3 – Ordering**

For the <u>process of footprinting</u>, arrange the process steps in the correct order. Write the process step name in the correct box.

The first one has been done for you.

(2 marks each)

#### **Process Step Names:**



# **SECTION 4 – Matching**

Match the <u>vulnerability scanning types and terms</u> to their appropriate definitions. Write the matching letter in the correct box.

The first one has been done for you.

(2 marks each)

# Terms Definitions

Example	A. A program that communicates with an web application
Vulnerability scanning	to find security vulnerabilities
1. Network enumerator	<b>B.</b> A system that proactively scans for network weaknesses or flaws
2. Computer worm	C. An automated process of identifying vulnerabilities of computing systems.
3. Port scanner	<b>D.</b> A program used to get information about users and groups on networks
4. Network vulnerability scanner	<b>E.</b> Checks a server or host for open ports
5. Web application security scanner	F. A type of self-replicated computer malware

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# **SECTION 5 – Short Answer Questions**

1.		ontain malware spam. This could give the ha can deliver a virus or malicious code.	icker illegal acce	ss to your (4 marks)
	Write any two	ways to protect your computer from a malv	ware spam attac	k.
	a)			
				(2 marks)
	b)			(2 marks)
2.	During footpri	nting, an ethical hacker is tries to collect info organisation.	rmation about th	e network, (6 marks)
		egory, write 2 items of information that an tprinting stage. An example for each categor		_
(	Network (Network formation)	• DNS •		(2 marks)
	t (Computer formation)	• Listening Services		(2 marks)
(	ganisation Company formation)	<ul><li>Organisation Structure</li><li>•</li></ul>		
				(2 marks)
				/ 10
		End of Examination	TOTAL	/ 50