APRIL 2021 EBS 366 LABORATORY MANAGEMENT AND SAFETY 2 HOURS 30 MINUTES

CANDIDATE'S	INDEX NUMBER:
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## UNIVERSITY OF CAPE COAST COLLEGE OF EDUCATION STUDIES SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH INSTITUTE OF EDUCATION

COLLEGES OF EDUCATION
FOUR-YEAR BACHELOR OF EDUCATION (B.ED)
THIRD YEAR, END-OF-FIRST SEMESTER EXAMINATION, APRIL, 2021

APRIL 6, 2021

LABORATORY MANAGEMENT AND SAFETY

2:00 PM - 2:30 PM

This paper consists of two sections, A and B. Answer ALL the questions in Section A and FOUR questions from Section B. Section A will be collected after the <u>first 30 minutes</u>.

## SECTION A Answer ALL the questions in this Section.

For items 1 to 20, each stem is followed by four options lettered A to D. Read each item carefully and circle the letter of the correct or best option.

- - A. electronic
  - B. information
  - C. operational
  - D. physical or architectural
- - A. electronic
  - B. information
  - C. operational
  - D. physical or architectural
- 3. When the Lab manager is able to make sure that all authorized persons have access to particular information at the required time, he or she is operating under the principle of ......
  - A. access.
  - B. availability.
  - C. confidentiality.
  - D. integrity.

4.	In co	st estimation for the lab tools, equipment ar	nd accessories, you ought to identify the
		cost of items and location.	
	В.	unit cost and period of expiration.	
		units, unit cost and total cost.	
		none of the above.	
5.	An i	ntegrated security system that emphasizes phy	
	Α	access control systems.	
	В.	alarm systems.	
		controlled doors/windows access.	
	D.	security guards.	
	D.	security guards.	
6.	To w	varrant that sensitive information is not ta	mpered with on computer or while in
	transr	nission, one must operate under the principle of	
	A.	access.	
	В.	availability.	
	C.	confidentiality.	
1 40		integrity.	This paper consists at on sertio
		Section a net be collected after the first 10 to	
7.	The	pest way for lab personnel to make inputs into the	he running of the lab is through
		appraisals.	
	B.	mentoring progress.	
		organizing meetings.	
		writing of memos.	
8.	a ski A. B. C.	ability to clearly define what has to be done and all which we collectively identify as	skills.
			ta an explore with a dig Alexander
9.	vario	act that decision making cuts across the various organizations defines its importance in the se	s units of an organization or taking place in ense of
		motivation.	
		objective attainment.	
		pervasive function.	
	D.	resource utilization.	
10		installation of CCTV cameras at the lab co	
	secui		
		electronic	
		information	
		operational	
		physical or architectural	
1		weakness identified in a lab resource that coul	d be exploited by cyber criminals is termed
1	l. Any	weakness identified in a lab resource that coul	d be exploited by cyber criminals is termed
1	l. Any		d be exploited by cyber criminals is termed
1	l. Any as		d be exploited by cyber criminals is termed
1	as A. B.	attack.	d be exploited by cyber criminals is termed

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2. Video surveillance systems are usually used to supplement locks for documenting access and
continuous monitoring by security personnel for the following reasons except
A. authenticate system users and grant them access.
B. prevent crime by recognizing unusual activity in real time.
1 0 1 1 1 1 1
D. verify identity of unauthorized personnel after unauthorized access.
3. The intentional blocking of particular Internet site to hinder access is termed in computing as
A. Demise of Service.
B. Denial of Service.
C. Domain of Service.
D. Loss of Service.
D. Loss of Service.
4. The actions which protect sensitive information from unauthorized people is considered under
the principle of
A. access.
B. availability.
C. confidentiality.
D. integrity.
SORIE community from the high Roman A will be on the all for the project and an analysis of the community of
5. Processes of ensuring that lab resources are kept safe from people falls under
A. computer management.
B. computer safety.
C. computer security.
D. systems protection.
6. Efficient laboratory security system is expected to achieve the following except
A. arrest perpetrators.
B. delay crime activity.
C. detect security breach.
D. respond to security breach.
D. Tespona to security ordania
7. A very powerful threat to steal people's login credential such as username and password can be
called
A. Bluesnarfing.
B. Keylogger.
C. Phishing.
D. Rootkit.
D. ROOME
8. A key factor in setting up a lab is not only cost of items, but you need to also consider
at the implementation stage.
A. competent instructors
B. ergonomics
C. networking
D. the kind of equipment to use
19. Decisions made out of the facts and figures available follows the process.
B. procedural
C. reasoning D. structural
1.4 20100-0000

- 20. The stage where the decision maker looks at 'the consider the feasibility of possible solutions' happens at what stage of the Decision-Making processes?
  - A. Analysis of Problem.
  - B. Developing an Alternative Course of Action.
  - C. Evaluation of Alternative Course of Action.
  - D. Review of Decision.

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COLLEGES OF EDUCATION FOUR-YEAR BACHELOR OF EDUCATION (B.ED) THIRD YEAR, END-OF-FIRST SEMESTER EXAMINATION, APRIL, 2021

**APRIL 6, 2021** 

LABORATORY MANAGEMENT AND SAFETY

2:30 PM - 4:30 PM

## SECTION B Answer FOUR questions from this Section.

1. State and explain four Computer Security Threats.

[10 Marks]

2. Briefly explain the following:

[10 Marks]

- a. Information Security
- b. Application Security
- c. Computer Security
- d. Network Security
- e. Cyber Security
- 3. Briefly explain the following Stages of Decision Making:

[10 Marks]

- a. Problem Identification
- b. Selection of best Alternative
- c. Implementation of Solution
- d. Review of Decision
- 4. State four challenges Decision-makers face when making decision.

[10 marks]

- 5. A typical computer lab at an academic institution is an organizational unit responsible for providing users with access to workstations. Such lab may comprise one or more computer rooms located at various points on the campus. Sometimes access to workstations is unrestricted.
  - a. Briefly explain What a Computer Laboratory is.

[2 marks]

- b. Identify **four** factors that make Computer Laboratories relevant or beneficial to the students? [4 marks]
- c. What are some **four** useful things that students can do at the Computer Laboratory?

[4 marks]

- 6. Computer labs are subject to various kinds of malicious activities ranging from cyber criminals launching denial of service attacks on major commercial websites to users damaging the equipment. Every year these activities cost academic institutions and the general public millions of dollars. To get the situation under control and protect themselves against accusations of negligence, lab managers need to establish a secure lab environment.
  - a. Identify any four Skills Lab Managers should have.

[4 Marks]

b. State any three duties of Computer Lab Manager.

[3 marks]

c. Name at least three factors that can be used to prevent Computer Vision Syndromes in our laboratory. [3 marks]