THE OPEN UNIVERSITY OF SRI LANKA FACULTY OF HEALTH SCIENCES DEPARTMENT OF NURSING ACADEMIC YEAR 2020/2021 – SEMSETER II



BACHELOR OF SCIENCE HONOURS IN NURSING NGU5208 HEALTHCARE INFORMATICS - LEVEL 5

NGU5208 HEALTHCARE INFORMATICS - LEVEL 5

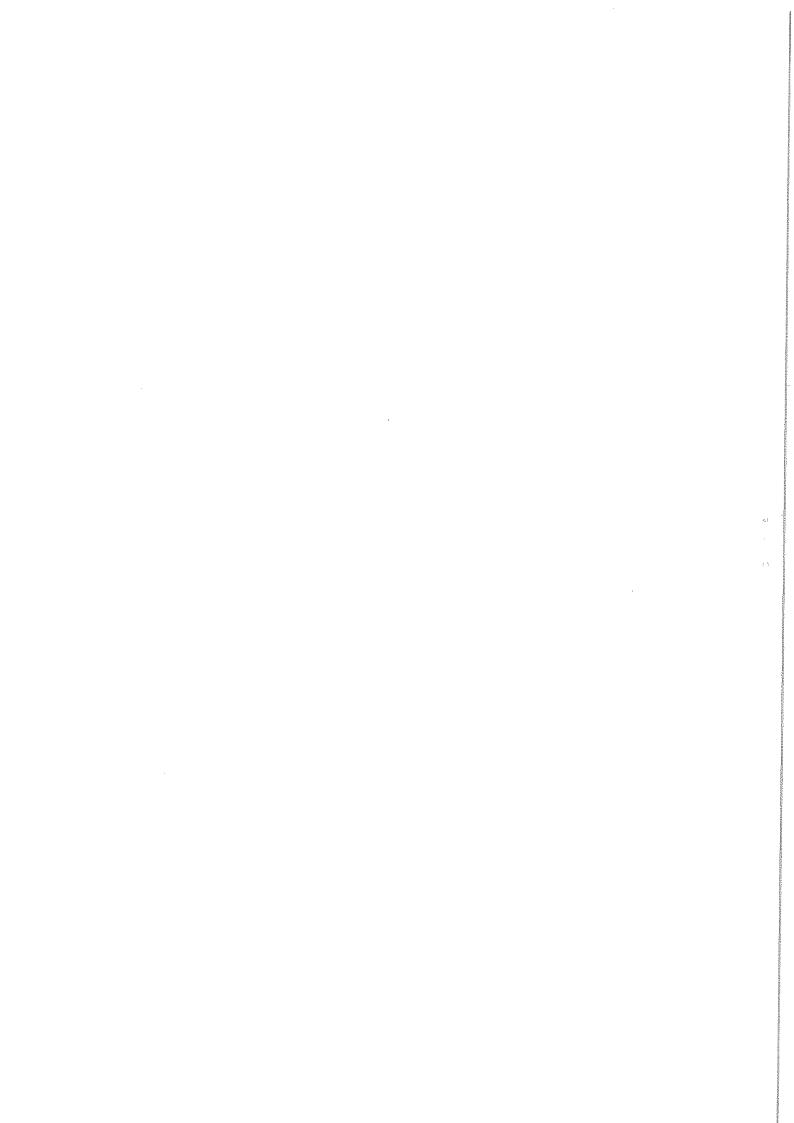
FINAL EXAMINATION

DATE: 07TH OCTOBER 2022

TIME: 2.00 PM - 4.00 PM

INDEX NO:

NIC NO:



Index No	010
	11

Part B – 10 Matching Questions (10 Marks)

Match the phrase given on the column I with the most suitable phrase or word given on the column II. Write the relevant 'letter' given in front of each phrase or word on the right side, in the given space.

Column I			Column II
1. Spreadsheet Application	()		A. Clinical Data Warehouse
2. The same piece of data exists in multiple places	()		B. Big data ecosystem
3. Open-source learning management system	(")		C. Electronic Health Records
4. A permanent change in custodianship of the information	())	D. Moodle
5. Main factor for human behaviour according to the Theory of planned behaviour	~(···)) ·	E. Lifelines
6. A real time database that collects data from a variety of clinical sources for a single patient)	F. Microsoft Access
7. Operational Information System)	G. Data redundancy
8: A one-screen overview of the record using timelines provides direct access to the data	()	H. Microsoft Excel
9. Information is represented in a graphical representation	()	I. Disposition
10. Introduced in last stage of the evolution of health care analytics	()	J. Intention
			K. E-learning
			L. Infographics

Question	01 (20 Marks)			
.1 Compa	are Electronic Healt	h Record (EHR)	and Electronic Medical	Record (EMR).
				(06 mark
	EHR		EM	IR
W			·	
	·			
			f .	
		· .		
			nsidered when designing	
interface		oping EHR syste		
interface	e for a newly develo	oping EHR syste		(04 marks)
interface	e for a newly develo	oping EHR syste	m	(04 marks)
interface i i	e for a newly develo	oping EHR syste	m	(04 marks)
interface	that you have been a	appointed as a nu	rse informaticist for plan	ning & implementing
interface i. i. Assume novel in	that you have been a formatics projects	appointed as a nu	m	ning & implementing

Index No.....

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.,.,,	· · · · · · · · · · · · · · · · · · ·	
1.3.2 What is the st	uggested health IT project?	(02 marks)
	· · · · · · · · · · · · · · · · · · ·	
1.3.3 Explain ho	w the suggested project would improve t	he preventive care in Sri
Lanka.		(05 marks)
	·	
· · · · · · · · · · · · · · · · · · ·		
	- 	
estion 02 (20 marks)		
What does each A sta	nd for in Triple A concept of Information	Security. Briefly describe
each of them.		(06 marks)
i		
		•
ii		
. iii		
	·	

		Index No	o
2.2 B ₁	riefly explain the four (04	4) risk treatment techniques.	(08 marks
	i	······	
	•••••••	· · · · · · · · · · · · · · · · · · ·	************************
i	i		••••••
	••••••••••••••••••••••••••••••••••••••	······································	
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· w iii	· ····································		·····

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	**********		· · · · · · · · · · · · · · · · · · ·
2.3 List	three (03) reasons for th	ne importance of privacy and security of	patient's health
info	rmation		(06 marks)
i.		······································	
	·····		*****
ii.		······································	***************************************
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iii.	•••••••••••••••••••••••••••••••••••••••		• • • • • • • • • • • • • • • • • • • •
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Part D - Structured Essay Question (20 Marks)

Write answers within the space provided.

Radio Frequency Identification (RFID) is one of the next generation innovations in healthcare. It has several opportunities for increased safety, operational efficiency and cost savings, by tagging inventory, assets, patients and personnel.

Assume that your hospital is selected to convert to a "Smart Hospital" using RFID. As the first step the many assets and stakeholders of the hospital will be tagged using RFID tags. Then, RFID readers will be placed at relevant places within the hospital. The staff members including nurses, doctors and other health care professionals will be given a handheld device with an RFID reader and with a wireless connection. And this will help to optimize the quality of care by implementing patient identification, blood tracking, smart operating theatres and tracking equipment, patients, staff and documents. You are the nurse-in-charge working with the IT professionals to implement this "Smart Hospital" using RFID.

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