The Open University of Sri Lanka Department of Nursing - BSc Honours in Nursing Programme

NGU5208- Healthcare Informatics

Academic Year 2018 /2019 - Level 5- No Book Test 01

Please return your question paper with your answer sheet

rease reason your question paper was your	
Date: 02.07.2019	Time: 9.00 a.m-10.00 a.m
Duration: 1 hour	Registration No:
Please read the instructions given below bet This question paper consists of four parts: I Answer all questions.	
Part A – 10 Multiple Choice Questions	(10 marks)
There are 10 Multiple Choice Questions in the contains four responses. Select the best responses.	nis paper and below each question or statement nse to each question and encircle it.
Part B – 10 Fill in the Blanks There are nine (9) statements with ten (10) bla	(10 marks) nks. Fill in the blanks by using given words
Part C - Three (3) Short Answer Questions Answer all the questions within the given space	
Part D- Short Essay Question(SEQ)	(20 marks)
Answer within the given space.	

For official use only		
Part A		
Part B		
Part C		
Part D		
Total		

ķ	Student	Reg.	No:	••••	٠.	•	• •	•	•	•	٠.	•	••	•

Part A – 10 Multiple Choice Questions

(10 marks)

- 1) The primary aim of health informatics is;
 - a) Decision support
 - b) Adoption of technology
 - c) Effective use of medical data
 - d) Improving person's health
- 2) Select the most appropriate statement
 - a) Nurses do not play a role in developing health literacy skills of clients/patients
 - b) Evaluating the information for quality is an essential skill in project management.
 - c) Master Patient Index (MPI) is a central repository of demographic details of patients
 - d) Nursing informatics only include big data analysis and use of artificial intelligence in nursing related information.
- 3) What is **NOT** a responsibility within nursing informatics
 - a) Analyze clinically important data collected by nursing officers
 - b) Sustain and align nursing work processes with overall clinical care, using technology
 - c) Assist with change management of relevant digital health projects
 - d) Manage nursing care related information separately
- 4) Select which CANNOT be considered as a health data source relative to the other sources
 - a) Surveys
 - b) Clinical returns
 - c) Patients' values
 - d) Patient experience feedback
- 5) A project can be best described as
 - a) An activity with defined time period
 - b) A routine work carried out in an organization
 - c) A permeant activity in an organization
 - d) An activity evaluated only after the completion

Student Reg.	No:	
DIMMONULATE		

- 6) What is **NOT** true regarding the facets of data quality
 - a) "Garbage-in garbage-out" principle denotes the importance of collecting quality data
 - b) Accuracy is a data quality dimension
 - c) Classifying and coding clinical data improves the quality of reporting
 - d) Data accessibility can be understood as the availability of all the available information to all the care providers
- 7) What is NOT correct regarding Health Information Systems
 - a) Can be categorized as Task based and Subject based systems
 - b) Can be categorized based on the category of staff that uses the system
 - c) Can be categorized based on the type of information handled by the system
 - d) Information collected through Health Information Systems are considered value assets
- 8) Tablet computers with Android Operating System and pre-loaded health apps were distributed among the public health nursing officers. Most of the nurses found Android system easy to use. However, they found health apps to be less user friendly. This created negative attitude among them and less intention to use. When the final evaluation on actual level of use was carried out, the Ministry of Health found only 45% of the public health nursing officers used the tablet computer. What theory/model can explain the scenario most appropriately?
 - a) Normalization Process model
 - b) Diffusion of Innovation theory
 - c) Technology Acceptance model
 - d) Planned behavior theory
- 9) What is NOT an identified feature of "Big data"
 - a) Velocity of data generation
 - b) Variety of collected data
 - c) Variance of collected data
 - d) Volume of collected data
- 10) What is **TRUE** about personalized medicine
 - a) They are prescribed using electronic prescription systems
 - b) Based on previous prescriptions of the patient
 - c) Big data is not used to create personalized medicine
 - d) Genomic data is used to identify the best suited drugs for an individual

	Student Reg. No:
Part E	3 – Fill in the blanks (10 marks)
Fill in	the blanks by using given words.
1.	An example for a global digital health good is
2.	describes how a message is encoded for transmission and
	then decoded by the receiver
3.	of data describes the extent to which data report the
	truthfull and free of identifiable errors.
4.	Type of health record managed by the patients is called
5.	describes the extent to which data are useful for the
	purposes for which they were collected and do not provide unneeded information
6.	A classification system widely used to classify the diseases
7.	denotes the recording of data in the same way and with
	the same meaning across records
8.	extends from the birth to death of a person
9.	is the meaningfully processed form of

(Accuracy, timeliness, consistency, Computerized Order Entry, Personal Health Record(PHR), granularly, currency, Electronic Medical Record (EMR), (Electronic Health Record) EHR, precision, Relevancy, currency, information, data, knowledge, SNOMED-CT, ICD-10, OpenMRS, Information theory, Activity theory, Information infrastructure theory, ICPC-2)

			Student Reg. No:
Part C -	Short A	nswer Questions	(60 marks)
Answer	within th	ne given space.	
Question	1 01		
1.1 Outli	ne the pe	rson-based information vs aggregate info	rmation giving two (02) examples
from	ward pro	cedures	(6 marks)
-		Person-based information	Aggregate information
Exp	lanation		
			.,,
The state of the s			
Exa	mples		
<u></u>			
1.2 Writ	e four (0	4) Information Governance Principles for	: Healthcare which have publish by
Ame	erican Hea	alth Information Management Association	n (AHIMA) (4 marks)
I.			
II.			
III.	•••••		
IV.			
1.3 List	four (04)	facets of data quality	(4 Marks)
I.			
II.			
III.			

IV.

	Student F	Reg. No:
1.4 Write thre	e (03) usages of "Health statistical reports"	(06 marks)
I		
II	······································	••••
	the healthcare with introducing of health information technol to its nature of having a high risk for failure. To overcome the	
care information	es projects are required successful projects, products and the	change management.
2.1. List four ((04) features of a project	(4 Marks)
I		•••••
и		
III		
IV		
2.2. Explain th	e terms of "Projects management", "Products Management";	and
"Change mana	agement"	(6 marks)
Projects		
Management	•••••••••••••••••••••••••••••••••••••••	
	,	•••••
Product		
Management		
<u>.</u>		
Change		**
management		
		•••••
i		·

Student Reg. No:	•••••
2.3. List the steps in a project lifecycle. (4 max	rks)
I	
II	• • • • •
Ш	
IV	
2.4. Write the six (06) phases in the process of change (6 Mar	rks)
I	
II	••••
III	
IV	· • • • • •
V	.
VI	· • • • • •

	Student Reg. No:	********
Question 03		
3.1 Define the terms	"Electronic Medical Record (EMR)" and "Electronic Health Rec	ord
(EHR)"		(6 Marks)
Electronic		
Medical Record		
(EMR)		
Electronic Health		
Record		
(EHR)		
) ·······	
•	'Hospital Information System/ (HIS)"	(2 marks)
3.4 List four (04) Sub	o modules of a regular Hospital Information System/ (HIS) and the	ir main
function		(8 marks)
I	••••••	•••••
П	• • • • • • • • • • • • • • • • • • • •	
ш	••••••	
IV		

Part I	Student Reg. No:
	or within the given space.
Write	a short note on "Tele Medicine and Tele Health" by including following areas
I.	Describe the terms "Tele Medicine" and "Tele Health"
II.	"Suwasariya" Telehealth Programme in Sri Lanka
III.	How "Tele Medicine and Tele Health" can improve healthcare in Sri Lanka
	•••••••••••••••••••••••••••••••••••••••
	· · · · · · · · · · · · · · · · · · ·
,	
•••••	
	•••••••••••••••••••••••••••••••••••••••
•••••	

	Student Reg. No:
······	
	•••••
······································	
•••••••••••••••••••••••••••••••••••••••	