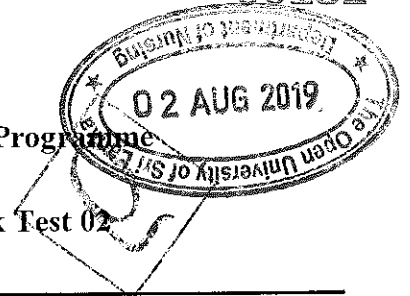




The Open University of Sri Lanka
 Department of Nursing - BSc Honours in Nursing Programme
 NGU5208- Healthcare Informatics
 Academic Year 2018 /2019 - Level 5- No Book Test 02

00131



Date: 02.08.2019

Time: 11.30 a.m-12.30 p.m

Duration: 1 hour

Registration No:

Please read the instructions given below before answering the questions.
 This question paper consists of four parts: Part A, Part B, Part C and Part D.
 Answer all questions.

Part A – 10 Multiple Choice Questions **(10 marks)**

There are **10 Multiple Choice Questions** in this paper and below each question or statement contains four responses. Select the **best response** to each question and **encircle** it.

Part B – 10 Fill in the Blanks **(10 marks)**

There are ten statements with ten **(10) blanks**. Fill in the blanks by using given words

Part C - Three (3) Short Answer Questions (SAQs) **(60 marks)**

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	

Student Reg. No:

Part A – 10 Multiple Choice Questions**(10 marks)**

- 1) Which is **not** a key role of a nursing informatics?
 - a) Project manager
 - b) System analyst
 - c) Care giver
 - d) Educator

- 2) Which type of records contain the **most** information?
 - a) Patient portals
 - b) Electronic medical records (EMRs)
 - c) Electronic health records (EHRs)
 - d) Evidence-based records

- 3) Mr.Perera needs to access his Electronic Health Records. To log into EHR, he needs to enter his user ID and password. This is an example for
 - a) authority of the health care professional
 - b) information security
 - c) technology threat
 - d) privacy

- 4) Which of the following can be considered as major development in Community Health Nursing in terms of information technology?
 - a) Medication dispensing
 - b) Patient Monitoring
 - c) Prevention of epidemiological diseases through quality care
 - d) Telehealth

- 5) Which of the following field were affected by the information technology?
 - a) Nursing Research
 - b) Nursing Education
 - c) Nursing administration
 - d) All of the above

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- 6) Predictive analytics tells that;
- What has happen in the past
 - What will happen in the future
 - What might happen in the future
 - Why did it happen in the past
- 7) A student is asking his instructor regarding distance learning. Which of following answer will be the **best** describe e-learning?
- It requires every participant to log in to that at the same time
 - It provides unstructured type of learning
 - It provides alternative learning to those who cannot access traditional type of lectures
 - It provides 24/7 schedule session
- 8) Which of the following is **not** a characteristic of data quality in healthcare?
- Consistency
 - Open access
 - Accuracy
 - Relevancy
- 9) The informatics nurse violates a patient's legal right to privacy and confidentiality by:
- discussing a patient's diagnosis with an authorized family member
 - discussing care-related information with the patient's physical therapist
 - looking up a colleague's diagnosis and laboratory results while he or she is hospitalized
 - providing a handoff report containing patient information to another department
- 10) A staff nurse having computer access to patients' healthcare information such as trauma history, vital signs, current management and a summary form with graphic depicting trends. This is an example for
- Clinical decision support system
 - Artificial intelligence
 - A point of care system
 - Healthcare technology

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Part B –Fill in the blanks**(10 marks)**

Use the most appropriate phrase/ word from the list. You may use one answer more than once.

1. Nursing informatics is a.....of health informatics
2.is an electronic file cabinet for patient data from various sources
3.is a recommendation for future development in nursing education in Sri Lanka
4. Most common eye comfort exercise is
5.is used for tracking patients throughout the hospital stay
6. A specific plan should be developed forof data
7. Knowledge that is patterned for use in reasoning is called as
8.is used in inventory management of hospital supplies
9. In promoting change, the people who are recognized as opinion leaders and role models are
10. The focus of data analysis is to.....

transform data into a usable form, knowledge representation, simulation lab, Electronic Materials Management, information, radio frequency identification, chair rotation, retrieval, management, domain, focus change, Electronic Health Record (EHR), Artificial Intelligence, early adopters

Student Reg. No:

Part C - Short Answer Questions

(60 marks)

Answer within the given space.

Question 01(20 marks)

1.1 Briefly describe the term “Data Analytics”

(03 marks)

.....
.....
.....

1.2 List **four (04)** main types of “Data Analytics”

(08 marks)

- I.
- II.
- III.
- IV.

1.3 Write **nine (09)** steps in data analysis

(09 Marks)

- I.
- II.
- III.
- IV.
- V.
- VI.
- VII.
- VIII.
- IX.

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Question 02 (20 marks)

Application of Nursing Informatics will help nurses in their daily practice and to reduce time wasting unnecessarily with manual data registration, and allowing more contact with the patient

2.1. List **four (04)** basic components of nursing informatics (4 Marks)

- I.
- II.
- III.
- IV.

2.2. Data, information, and knowledge are identified as basic concepts of nursing informatics.

Briefly describe the relationship among these three concepts (4 marks)

Data
Information
Knowledge

2.3. Write main **four (04)** areas of nursing in which nursing informatics can be applied (4 marks)

- I.
- II.
- III.
- IV.

2.4. Briefly describe **four (04)** Challenges which can be faced during implementation of Nursing Informatics in Healthcare setting (8 Marks)

- I.
- II.
- III.
- IV.

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Question 03 (20 marks)

3.1 Explain the importance of maintaining highest ethical standards in the field of healthcare informatics. (2 Marks)

.....
.....

3.2 Write **five (05)** ethical principles in healthcare informatics according to the International Medical Informatics Association and briefly describe each of them. (10 Marks)

- I.
.....
- II.
.....
- III.
.....
- IV.
.....
- V.
.....

3.3 List **four (04)** important information which should be considered while giving an awareness to patients regarding Electronic Health Records (8 marks)

- I.
- II.
- III.
- IV.

