NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikwe Express Way, Jabi, Abuja, FCT
Faculty of Health Sciences
Department of Nursing Sciences
2024_1 EXAMINATION

Programme: Bachelor of Nursing Science
Course Code: NSC508
Course Title: Fundamentals of Nursing Informatics
Course Credit Units: 3 Units
Time Allowed: 2 Hours
Total Score: 70 Marks
Instruction: Answer All the Questions

Question 1

1. Knowing how to use email, manage windows applications, search data bases, and the ability to operate institution specific nursing software used for charting and medication administration are all part of informatics competencies.
   a. What is nursing informatics competencies (1.5 marks)
   b. Outline the three-tiered system of nursing informatics competencies (3 marks)
   c. Enumerate the expected abilities of a nurse at the first level of the three-tiered system of nursing informatics competencies in terms of (12 marks);
      i. Technical competencies
      ii. Utility competencies
      iii. Leadership competencies

Question 2

2. Decision Support System (DSS) are a computer-based form of decision tool, integrating information with the characteristics of individual patients, to provide advice to clinicians.
   a. List and explain any five (5) major uses of decision support system that offer great potential to assist nurses to handle the volume of data (12.5 marks)
   b. Outline any five (5) barriers to clinical decision support system (5 marks)

Question 3

3. The basic codes of protecting life and alleviating suffering are shared by members of the medical and nursing profession.
   a. Explain the concept of bioethics (5 marks)
   b. List and briefly discuss any five (5) fundamental ethical principles (12.5 marks)

Question 4

4. It is important the nurses begin to think about how emerging technologies will change the practice of nursing and how technologies can be applied in nursing practice to deliver quality patient care.
   a. List any ten (10) common diagnostic and monitoring devices (5 marks)
   b. Write concise notes on the following direct nursing delivery technology (12.5 marks);
      i. Automated IV pumps
      ii. Portable Monitors
      iii. Smart beds
      iv. Wearable devices and mobile apps
      v. Patient assistive devices