



BRAINWARE UNIVERSITY
Term End Semester Examinations, Jan- 2023
Programme – Bachelor of Science in Nursing
Course Name – Health/Nursing Informatics & Technology
Course Code – HNIT145
 (Semester – II)

Time allotted: 2 hrs.

Full Marks: 50

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group – A (Multiple Choice Question)

8 x 1 = 8

1. Select the correct answer of the following :-

- i) A light sensitive device that converts drawing, text or other images into digital form is called
- | | |
|------------|-------------------|
| a Keyboard | b Scanner |
| c Plotter | d Ink jet printer |
- ii) Which one of the following is not an application software package?
- | | |
|--------------------|-------------------|
| a Microsoft Office | b Adobe PageMaker |
| c Redhat Linux | d Open Office |
- iii) System Maintenance refers to:
- | | |
|--------------------------|-----------------|
| a Continuous Improvement | b Error finding |
| c Updating the system | d Above of all |
- iv) Which of the following statement is wrong?
- | | |
|---|---|
| a Photoshop is a graphical design tool by Adobe | b MS-Windows is an operating system |
| c Linux is free and open sourced | d Ubuntu-Linux is owned and sold by Microsoft |
- v) Which of the following formula in Excel is correct to find sum of cell B1, B2 and B3
- | | |
|-----------------|-----------------|
| a = Sum (B1>B3) | b = Sum (B1;B3) |
| c = Sum (B1:B3) | d = Sum (B1,B3) |
- vi) Which of the following is a risk in telemedicine?
- | | |
|------------------------------|----------------------------|
| a Poor quality image | b Malfunctioning equipment |
| c Maintaining data integrity | d All of the above |
- vii) How to use Format Painter multiple times
- | | |
|--|---|
| a By Double click on the Format Painter icon | b Format Painter cannot be use multiple times |
| c By selecting Edit→ Format-Painter→multiple Use | d By click on Lock Format Painter icon |
- viii) Which of the following is not true about health informatics?
- | | |
|---|---|
| a Health informatics deals with medical resources and devices | b Health informatics prevents ethical conflicts |
| c Health informatics does not resolve ethical conflicts | d Health informatics helps in decision making |

Group – B (Essay/ Long answer type question)

1 x 10 = 10

(Answer Any One Question)

- | | |
|--|----------------|
| 2. Define Health information system. Describe the architecture of HIS. What are the advantages & disadvantages of HIS? | 2+4+2+2=
10 |
| 3. Throw light on the concept of data privacy and security. | 10 |

Group – C (Short answer type question)

4 x 5 = 20

(Answer Any Four Questions)

- | | |
|--|-----|
| 4. What is a clinical risk? List down the objectives & need to manage clinical risk. | [5] |
| 5. Write down the advantages and disadvantages of Public health informatics. | [5] |
| 6. What are the purposes of code of ethics? | [5] |
| 7. Explain Entity-Relationship model and object based model. | [5] |
| 8. Write the flowsheet of KDD and the steps associated with it. | [5] |

Group – D (Very short answer type question)

6 x 2 = 12

(Answer Any Six Questions)

- | | |
|--|-----|
| 9. Mention 3 basic layer in a HIS | [2] |
| 10. What is the importance of risk management process? | [2] |
| 11. Enlist the importance of E-health. | [2] |
| 12. Write the different types of data mining. | [2] |
| 13. Explain how infrastructure is a limitation for health informatics. | [2] |
| 14. What are the competencies of health care professionals for EBQI? | [2] |
| 15. List the barrier of ICT. | [2] |