



**GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY,
GUNUPUR, ODISHA**

B. Sc. Nursing Second Semester Examinations, JULY' 2025

HNIT 145 – Health/Nursing Informatics & Technology

Time: 3 hrs

Maximum: 75 Marks

The figures in the right hand margin indicate marks.

PART – A: (Multiple Choice Questions)

(8 x 1=8 Marks)

Q. 1 Answer **ALL** questions

- a. An example of a nursing terminology standard is
 - (i) ICD-10
 - (ii) SNOMED CT
 - (iii) MP3
 - (iv) HTTP
- b. Which device can help nurses monitor patient heart rate remotely?
 - (i) Smartwatch
 - (ii) Digital thermometer
 - (iii) Fax machine
 - (iv) Paper chart
- c. A telehealth “synchronous” consultation means
 - (i) Data sent for later review
 - (ii)) Live video or audio interaction
 - (iii) Printed lab reports
 - (iv) Automated billing
- d. The main advantage of electronic handover sheets is
 - (i) They never need updating
 - (ii) They improve accuracy and legibility
 - (iii) They cost more than paper
 - (iv) They require no training
- e. “Audit trail” in an EHR refers to:
 - (i) A patient’s past ECG tracings
 - (ii) A record of who accessed or changed data
 - (iii) A list of scheduled tests
 - (iv) A menu of cafeteria items
- f. Which of these is a benefit of cloud-based health records?
 - (i) Unlimited paper storage
 - (ii) Access from any internet-connected device
 - (iii) No need for passwords
 - (iv) Automatic printing
- g. In nursing informatics, “usability” testing checks whether:
 - (i) Software meets security standards
 - (ii) Users can navigate the system easily
 - (iii) Hardware is under warranty
 - (iv) Data is encrypted
- h. A basic nursing dashboard might display:
 - (i) Patient satisfaction scores
 - (ii) Current patient admissions and discharges
 - (iii) Hospital cafeteria menu
 - (iv) Nurse parking allocations

PART – B: (Very Short Answer Questions)

(6 x 2=12 Marks)

Q.2. Answer **ANY SIX** questions

- a. Define interoperability.
- b. List two benefits of electronic handover sheets.
- c. What is an audit trail in an HER.
- d. Name one example of a telehealth device.
- e. What does PACS stand for.
- f. Give one use of a mobile health app in maternal care.
- g. State one advantage of cloud-based health records.

PART – C: (Short Answer Questions)

(4 x 5=20 Marks)

Q.3. Answer ANY FOUR questions

- a. Describe three strategies to ensure strong password security for nursing information systems.
- b. Explain how barcode scanning reduces transcription errors during medication rounds.
- c. Outline two ways telemedicine can assist patients with chronic disease follow-up.
- d. Discuss the role of nursing informatics in scheduling and staffing within a hospital.
- e. Describe how dashboard analytics can help a nurse manager monitor unit performance.
- f. Describe three strategies to ensure strong password security for nursing information systems.

PART – D: (Long Answer Questions)

(10 x 1=10 Marks)

Answer *the following* questions

Marks

- 4.a. Discuss the benefits and potential risks of using wearable devices for remote patient monitoring? 10

(OR)

- b. Enlist the ethical, legal, and privacy considerations involved in implementing telehealth services in nursing practice? 10

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