

International Institute of Health Management Research, New Delhi
Introduction to Healthcare IT and Information Standards HIT-701
TERM EXAMINATION for 2016-18 Batch

All Questions are Compulsory (No Negative Marking)

1. Expand the Acronyms in the context of HIE Standards (10 × 1 = 10 marks)

- a. CCD
- b. ISO
- c. DICOM
- d. PACS
- e. IHE
- f. HL7
- g. LOINC
- h. PHR
- i. EMR
- j. M2M

2. Multiple Choice Questions (10 × 1 = 10 marks)

- (i) Clinicians and Hospital Staff most effectively learn about a new clinical information system when the instructor:
(a) Assumes that the learner knows nothing about the system. (b) Begins the formal training as early as possible in the implementation process. (c) Emphasizes the technical specifications of the structure of the system. (d) Encourages the learner to use previous experience to interpret new learning.
- (ii) A _____ is a computer system that supports some aspect of the human decision-making process.
(a) Transaction System (b) Decision support system (c) Physiologic monitoring system (d) Management information system
- (iii) _____ are widely used in hospital patient care units, in surgery and more commonly in private homes.
(a) Transaction Systems (b) Decision support systems (c) Physiologic monitoring systems (d) Management information systems
- (iv) Where is the National Resource Centre of SNOMED CT in India situated?
(a) New Delhi (b) Kolkata (c) Pune (d) Bengaluru
- (v) A hospital has an old, out of date information system and is implementing a new one. Data must be moved into the new system, with new standards of data collection. So, the data must be reformatted to accommodate the new system requirements through the following process:
(a) Data conversion (b) Data standard conformance (c) Data mapping (d) Certification

- (vi) As several disciplines support the foundation of health information management professionals, it is important for them to understand that:
 - (a) They differ from other disciplines, as the discipline focuses on supporting the process of obtaining data. (b) They use the concepts, tools, and methods of various disciplines to facilitate health information management. (c) They have the same goal as all other health management professionals (d) The boundaries between the various disciplines are clearly defined.
- (vii) A downtime of the EHR system is planned for three months from today. The Health Information Manager is formulating a communication plan for the clinical staff about the downtime. Find the best choice:
 - (a) Announce the upcoming downtime at system-wide meetings, and at department meetings of specific system hospitals affected by the downtime. (b) Bring copies of the communication plan to IT meetings, and discuss it with the IT directors and managers. (c) Present the information at the "super user" meetings, department and unit meetings, and at other specialty clinician meetings, in addition to having a message posted on the message-of-the-day screen in the EHR. (d) Print fliers with the downtime plan and post them in bathrooms and break rooms, as well as on bulletin boards in various locations in the hospitals.
- (viii) Which of the following is a central repository for data from various sources within the hospital?
 - (a) EHR (b) HIS (c) Clinical Data Warehouse (CDW) (d) Patient Registry
- (ix) The interdisciplinary domain that sits at the intersection of clinical practice, information technology, information management and management practices is known as
 - (a) Health Informatics (b) Biomedicine (c) Health Information Management (d) Telehealth
- (x) The process of documenting how work gets done and helps to identify opportunities for improvement is often completed as part of implementing a new system, to ensure the new system fits with current and future work practices. This is called
 - (a) System Evaluation (b) Workflow Analysis (c) Root Cause Analysis (d) Efficiency Review

3. Short Questions (15 × 2 = 30 marks)

- a. What are the pros and cons of using the Digital Locker as a Repository for our Health Records?
- b. What are the advantages and disadvantages for crowd-sourcing from the social media for the purpose of Public Health Informatics applications?

4. Case Study (20 marks)

You are assigned to implement an EHR System (from scratch) that is fully compliant to the Standards notified by the MoHFW, Government of India. Imagine the scenario and elaborate on the following questions:

- (b) Identify all the actors in interdisciplinary health informatics scenarios and explain and reflect on their professional roles, responsibilities and mutual professional relations,
- (c) Identify, analyze and categorize problems within healthcare or research that has connection to the management of information and knowledge and suggest potential health informatics solutions to these problems,
- (d) Reflect on potential methods of health informatics' suitability, depending on the special characteristics of the envisaged problems and on contextual factors,
- (e) Evaluate, suggest, argue and recommend a solution to the envisaged problems, based on their effects and with regard to ethical and legal aspects.