International Institute of Health Management Research (IIHMR), New Delhi.
Plot 3, Sector 18A Dwarka New Delhi 110075

Postgraduate Diploma in Management
(Hospital and Health) November 2021
Third Semester
1. HIT

Time: 2 hours	**Course Code**	**Course Name**
Maximum Marks: 70		**HIT Project Implementation**

Total time 120 minutes

	Maximum	Allotted
Total Marks 70		
Part I	20	
Part II	10	
Part III	10	
Part IV	30	

Part I : Short Answers

Answer any 2 in a separate sheet (10 marks each – Total 20)

Compare and contrast

1. Physical vs Electronic prescription
2. Binary versus Byte based data for recording and transfer
3. Total Cost of ownership of fully owned vs cloud based systems
4. Electronic sensors in comparison to human ones

Part II – 10 Marks (answer any two - 5 marks each)

5. Describe briefly what you know about IPV4 addressing system with the role of Subnet Masking and Gateway
6. No SQL Databases
7. Describe briefly how images and multi-media files are viewed and printed
8. DIKW

Part III Short Answer /Resorting/matching (2 marks each – marking in fractions**)**

1. Match the approximate percentage contribution to a project's success – based on your understanding of Change Management (Total should 100, any item can be 0%)

1. Luck
2. Reward and Penalty System
3. Business Process Re-Engineering
4. Technology
5. Change Management

Item	Percentage
1	
2	
3	
4	
5	

2. Re-Sort the order in which the processes for the SATHI Tsunami project took place (Put the order number i.e 1,2,3 in the answer box with the first one marked 1 and the last marked 9)
   A. Install the systems
   B. Outcome Evaluation
   C. Reporting mechanisms
   D. Testing
   E. Needs Assessment
   F. Training
   G. Orientation
   H. Draw the MOUs
   I. Create a time table

Sort Order	ITEM
1	
2	
3	
4	
5	
6	
7	
8	
9	

3. Enumerate the 5 Rs for an eprescription (The first one is provided as a sample)

	ITEM
1	Right Medication
2	
3	
4	
5	

4. You are not getting last month's reports from your HMIS. Which of the following can be checked by you /local staff before calling your vendor for support? (Sort in order of priority with the highest i.e those you first check as number 1 – mark X against those you will definitely call the vendor for)
   a. Login and Password
   b. Access Privilege
   c. Connectivity and TCP/IP Settings
   d. Power
   e. Some data is there but not what you want
   f. Poor clarity of displayed images
   g. Unable to scroll to the data required

Sort Order	ITEM
1	
2	
3	
4	
5	
6	
7	

5. Write the full form of the Acronym ---

ACRONYM	Full term
URI	
EHR	
ASCII	
HL7	
XML	
HTTP	

Part IV - MCQs 30 marks – cross (☒) as answer in relevant box on right side. All questions carry 1 mark each with negative marking or -0.5 If mentioned *as one or more* * then all the possible and correct choices have to be ticked. You may get part marks but never less than -0.5.per questions. There are 31 Questions but   your marks cannot exceed 30

1. PMJAY has currently been launched with the following programs except
    A. UHID
    B. Facility ID
    C. Comprehensive EHR
    D. Claims Reimbursement
    E. Provider ID

2. The key role of the CIO in ordering a healthcare IT project is
    A. Placing an order
    B. Paying for it
    C. Getting the people
    D. Understanding the problem

3. Actual data from which of the following may be used as direct INPUT for your HIS *(one or more *)*
    A. Google
    B. Router Switch
    C. Keyboard
    D. Your mobile phone
    E. Existing data in the EHR

4. Answers to which of the following may not be provided through your Data Mining Tool used with your HMIS *(one or more *)*
    A. Bed Strength
    B. Cash Flow
    C. Number of patients with appendicitis in the community
    D. Doctors available for helping in a mass casualty

5. For purchasing connectivity to be used for your HMIS, which would be the primary determining factor
    A. 3G
    B. Cost
    C. Maximum Speed
    D. Constant Availability

6. For purchase of a domain name, who is likely to be the best source:
    A. ICANN
    B. The telephone Company e.g. Airtel
    C. GoDaddy
    D. Your local hardware supplier
    E. whois.com

7. Which of the following telemedicine streams is most required in Indian context
    A. Home telemedicine
    B. Satellite units

7A ☐	
7B ☐	
7C ☐	
7D ☐	
7E ☐	
8A ☐	
8B ☐	
8C ☐	
8D ☐	
8E ☐	
9A ☐	
9B ☐	
9C ☐	
9D ☐	
9E ☐	
10A ☐	
10B ☐	
10C ☐	
10D ☐	
11A ☐	
11B ☐	
11C ☐	
11D ☐	
12A ☐	
12B ☐	
12C ☐	
12D ☐	
12E ☐	
13A ☐	
13B ☐	
13C ☐	
13D ☐	

C. Primary care to secondary care
D. Patient to Specialist
E. Training of health workers

8. Which of the following are essential for the remote transmission of a clear image
   A. A 10 + Mb camera
   B. A UHD Screen
   C. Fiberoptic Networking
   D. A secure 64 Bit server
   E. None of the above

9. What are the key steps in vendor selection?
   A. Requirement meeting
   B. Cost
   C. Quality
   D. Reports from other users
   E. All

10. Among the personnel who would be involved in your upcoming healthcare IT project, which among the following should be among the first you should try to tackle
    A. The C E O
    B. The data entry staff
    C. The ones who complain the most
    D. The ones who are most enthusiastic

11. Which of the following would come under SaaS (Software as a Service)
    A. Providing loaded iPads on rent
    B. Payment for EHR depending on number of patients
    C. Developing software off site
    D. Solving problems using Zoom

12. These are used as the standards within Healthcare (one or more[1])
    A. HIPAA
    B. HL7
    C. CMM
    D. ISO
    E. ICD10

13. Choose the non core functions of a HMIS from the following
    A. Diagnosis
    B. Post operative notes
    C. Appointment scheduling
    D. Finance and Payroll

14. The KISS Principle (*Select one)*
    A. Helps reconciliation between Stakeholders
    B. Is not suited for complex problems
    C. A method to discover simple answers
    D. Is sheer stupidity

15. Which of the following is not a part of the in-patient process?

14A ☐	
14B ☐	
14C ☐	
14D ☐	
15A ☐	
15B ☐	
15C ☐	
15D ☐	
16A ☐	
16B ☐	
16C ☐	
16D ☐	
17A ☐	
17B ☐	
17C ☐	
16D ☐	
18A ☐	
18B ☐	
18C ☐	
18D ☐	
18E ☐	
19A ☐	
19B ☐	
19C ☐	
19D ☐	
20E ☐	
20E ☐	
20E ☐	
20E ☐	

A. Bedside care
B. Pre operative assessment
C. Surgery scheduling
D. Unique Health ID

16. What is the minimum frame rate for discerning a moving image?
    A. 5
    B. 7.5
    C. 10
    D. 15

17. The number 253 will be written in binary code as
    A. 253
    B. 10101001
    C. 11111101
    D. None of the above

18. Which of the following are valid TCP/IP Addresses *(select 1 or more *)*:
    A. 127.0.01..
    B. www.google.com
    C. 223.23.45.21
    D. 275.22.12.0
    E. 23,34,43.225

19. Which of the following will invoke a validation check or not allowed to be input as an appointment date in your HMIS *(select 1 or more *)*
    A. 21/3/2024
    B. Sunday 21st March 2015
    C. 2015-21-03
    D. 03/21/2015

20. What of the following is TRUE about validation checks-
    A. They are invoked when you enter the column
    B. They are invoked as soon as you enter incorrect data
    C. They are invoked when you exit the column
    D. They have nothing to do with user input

21. When you say your image is 5 Mb size it means—
    A. There are 5 million pixels invoked
    B. It consists of 5 Mega bits
    C. It consumes around 5100 Kbs of storage space
    D. It was taken by a 5 mega pixel camera

    21A ☐
    21B ☐
    21C ☐
    21D ☐

22. The first process of starting your HMIS expansion will be (a/an)
    A. RFI
    B. SRS
    C. Needs Assessment
    D. RFP

    22A ☐
    22B ☐
    22C ☐
    22D ☐

23. Which of the following is/are generally NOT a component of teleconsultation *(mark one or more *)*
    A. Biopsy
    B. Online Consultation
    C. Email Discussion
    D. Supply Chain of Medicines
    E. Phone Call to your doctor

    23A ☐
    23B ☐
    23C ☐
    23D ☐
    23E ☐

24. The Standards Framework for Health IT deals with
    A. Functionality
    B. Inter-operability
    C. Security
    D. All of the above

    24A ☐
    24B ☐
    24C ☐
    24D ☐

25. How many shades of GREY are possible through a color printer which uses RGB (Red Green Blue) based calculations. *Hint – Grey is an equal mix of all 3*
    A. 50
    B. 127
    C. 254
    D. in 1000s

    25A ☐
    25B ☐
    25C ☐
    25D ☐

26. Where would Information Technology be aligned in the business of the hospital?
    A. To implement the latest technology .
    B. To help achieve hospital's vision and goals
    C. To make it paperless
    D. Available hospital equipment are integrated with patient care.

    26A ☐
    26B ☐
    26C ☐
    26D ☐

27. What form of change from old system to the new system is most likely to succeed?
    A. Direct Changeover (Revolutionary)
    B. Gradual (Evolutionary)
    C. Parallel Running
    D. Minimal or No Change

    27A ☐
    27B ☐
    27C ☐
    27D ☐

28. Which is the document that is used for gathering information from vendor?
    A. RFQ
    B. RFP
    C. RFI
    D. SRS

    28A ☐
    28B ☐
    28C ☐
    28D ☐

29. Which of the following is expected to have the most comprehensive details of the patients' long-term medical problem
    A. EMR
    B. PHR
    C. EHR
    D. Casesheet

    29A ☐
    29B ☐
    29C ☐
    29D ☐

30. When purchasing a solution for your hospital, what can you legally insist on having full access of
    A. The Source Code
    B. Administrator control of the database
    C. The Gateway
    D. The room where the server is kept

    30A ☐
    30B ☐
    30C ☐
    30D ☐

31. How many devices or servers or would be involved in establishing a Microsoft Teams connection between two laptops in the same room (including that of the laptops) –treat the entire process outside your local setting as one e.g. the Teams server
    A. 2
    B. 3
    C. 4- 8
    D. More than 8

    31A ☐
    31B ☐
    31C ☐
    31D ☐