

**Post Graduate Diploma in Management (Hospital & Health Management)
PGDM – 2022-24 Batch**

Term – 2nd Year - 4th Term Examinations

Course & Code	: Healthcare Software Requirement Management- HIT 703	Reg. No.	:
Term & Batch	: IV, 2022-24	Date	: September 29, 2023
Duration	: 3 Hrs.	Max. Marks	: 70

Instructions:

- Budget your time as per the marks given for each question and write your answer accordingly.
 - Don't write anything on the Question Paper except writing your Registration No.
 - Mobile Phones are not allowed even for computations.
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***** Total Questions should not exceed 20. Below is the example for the question allotment.**

***** No choice of questions in Part A. In Part B & C, choice can be given.**

Part A: Q. 1 to Q.10 (10 questions*1 marks = 10 marks).

A hospital is interested in developing a mobile application to get feedback of IPD patients regarding their hospital stay.

1. Who should be the ideal end user? Patient or caregiver or nurse?
2. What should be a major functional requirement for developing this app
3. Can you think of one non-functional requirement considering the working of the app?
4. Give a user story as an example for the app
5. List two requirements that can be considered as optional (nice to have)
6. What is one major difference between SRS and BRD?
7. What is a pareto chart?

The doctors can access the patient data through doctor's work bench and place orders to lab and pharmacy. The lab and pharmacy receive orders to carry out the tests and results given to patients. The patients collect medicines from the pharmacy. In case of notifiable disease, the hospital administrator sends the report detail to DGHS.

8. Who are all secondary actors?
9. Give one example of include case?
10. Give one example of generalization?

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Part B: Q.11 to Q.15 (4 questions *5 Marks =20 Marks) Attempt any four.

DAME is a Telemedicine based application that is utilized for assessment, monitoring and evaluation of outpatient CVD. Three hospitals are linked together through DAME. Based on the healthcare services offered and distance the patients are allotted telemedicine centres when they assess the service. As an value added service, the patients can self-assess their risk towards CVD, monitor their life style based activities of diet, exercise and evaluate their risk trend based on the interventions adopted by them.

11. Develop a user story from the perception of a patient for the above
12. What will be the steps of requirement management will you use to design an information system for the above?
13. What tools will you use for gathering requirements for the above.
14. Develop a traceability matrix that will track from gathering requirement to test cases.
15. Who will be the stakeholders to gather requirements from?

Part C: Q.16 to Q.20 (4 questions *10 Marks =40 Marks)

Read the case and answer the following questions

A medical college X is interested in creating health recommender system. Recommender systems (RS) suggest items of interest to users of information systems or e-business systems and have evolved in recent decades. A typical and well known example is Amazon's suggest service for products. The medical college believes the idea behind recommender systems can be adapted to cope with the special requirements of the health domain. The goal of an HRS is to supply it's user with medical information which is meant to be highly relevant to the medical development of the patient associated with that PHR. Related medical information may be recommended to health professionals who work on or with the given PHR but also it may be recommended to laymen inspecting their own PHR. Depending on a user's medical expertise an HRS should suggest medical information, which is comprehensible to that user.

1. Identify 10 functional requirements
2. One major use case with respect to use of HRS by the laymen is retrieval of information related . Draw use case diagram for the use case
3. Provide Use case description for the above use case
4. Draw activity diagram indicating the retrieval of patient information by the providers using HRS