



Department of CIS

Subject: Management Support System

Assignment Title: *City Hospital*

Fall 2019

Total Marks: 35

City Hospital is a large hospital which uses a computer network to link the reception and the Administration Department.

When a patient is admitted to the hospital he or she is asked to complete a paper-based form with his or her personal details and any medical data. This form is taken with the patient to the ward that they will be staying in and the patient's details are read and copied onto a chart that is stored at the bottom of the patient's bed. The information on this chart is updated several times a day. If the patient has been in the hospital before, a member of the nursing staff has to retrieve the patient's folder (paper-based) from the Patients' Records Department to read the details contained in it and to check, for example, that they do not suffer from any allergies to medication they may be given to them. The patient's chart is updated with any relevant information.

The form is then taken to the Administration Department for a copy to be taken of it and the details are entered into the patient records database by data-entry staff. If the patient has not been in the hospital before, a new record is created for them; if they have been admitted before, their previous record is updated. The patient records database is updated once a day. The original form is then taken and placed in the patient's folder in the Patients' Records Department.

When the patient leaves the hospital, their patient chart is taken to the Administration Department where the data-entry staff enters information from it into the patient records database. The patient's chart is then taken to be stored in the patient's folder in the Patients' Records Department.

The manager of the hospital is very concerned about the current scenario and has met with various senior staff. After much discussion with others, it has been decided that a new information system is required.

Task 1: 12 marks

- a) Analyze the type of decisions to be handled by the staff of different departments of City Hospital .[6]
- b) Explain the type of new information system to be best suited for use in City Hospital.[6]

Task 2: 16 marks

- a) Explain any department of your choice that will work efficiently after the implementation of the new system.[6]
- b) Design a decision tree to represent the decision making process of different departments in the new system.[10]

Task 3: 7 marks

Provide an assessment of how the work you have done has met the requirements of *City Hospital*.

Submission Guidelines:

- Your submission should be in the form of a single word-processed document (**.doc or .docx**).
- Naming of the file as **example:** *183-16-315.doc or 183-16-315.docx*
- **Marks will be deducted accordingly if any plagiarism of work is provided.**

