b) What do you mean by Software Design Specification? Giving the format explain SDS to cover most of the important design information. **(8)**

c) Explain any two architectural styles of software design in brief. **(4)**

Unit - V

5. Considering "Hospital Information System" as an example, explain the following UML diagrams in detail, with the help of neat sketches:

a) Use case diagram   b) Class diagram

c) Sequence diagram   d) State transition diagram   **(4×4)**

Or

a) "A student visits a library to borrow the book. The student has to submit library issue card to the library. The student makes the book request by giving title of the book and name of the author. The library information system maintains the titles list and authors list. The system also keeps the records of available books and their location as bookshelf number. The list of requested book should be displayed by the system to issue the book".

Considering the above scenario, with reference to OOM, identify the relevant classes, associations and attributes giving proper justification. After the identification, derive object model with neat sketch. **(6+6)**

b) With the help of your own example, differentiate Event Flow diagram and Data Flow diagram. **(4)**

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