

G.H. RAISONI COLLEGE OF ENGG., NAGPUR

2020-21 ODD TERM

CAR-2 EXAMINATION FOR SPLIT-II COURSES

WINTER 2020

DEPARTMENT: ARTIFICIAL INTELLIGENCE

SEM/SEC: 3/A DATE: 27/08/2020

SUBJECT: SEPM

ROLL NO: 58

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REG NO: 2019AAIE1117028

CO1.

a.

- i. A weather station is a package of software controlled instruments which collect data, performs some data ~~processing~~ processing and transmits this data. Data is collected every five minutes.

Shivam Tawari

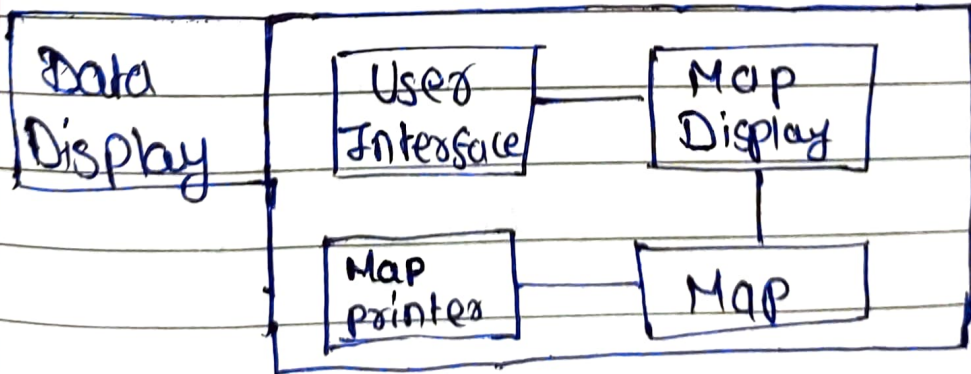
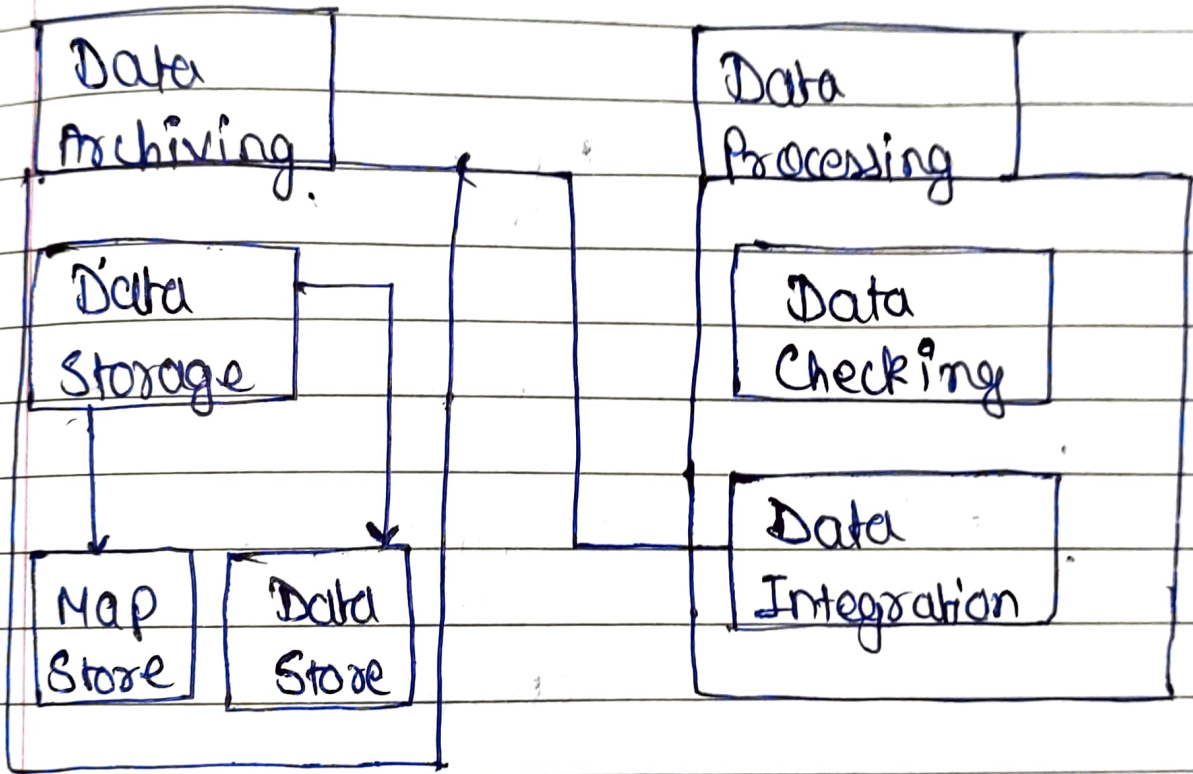
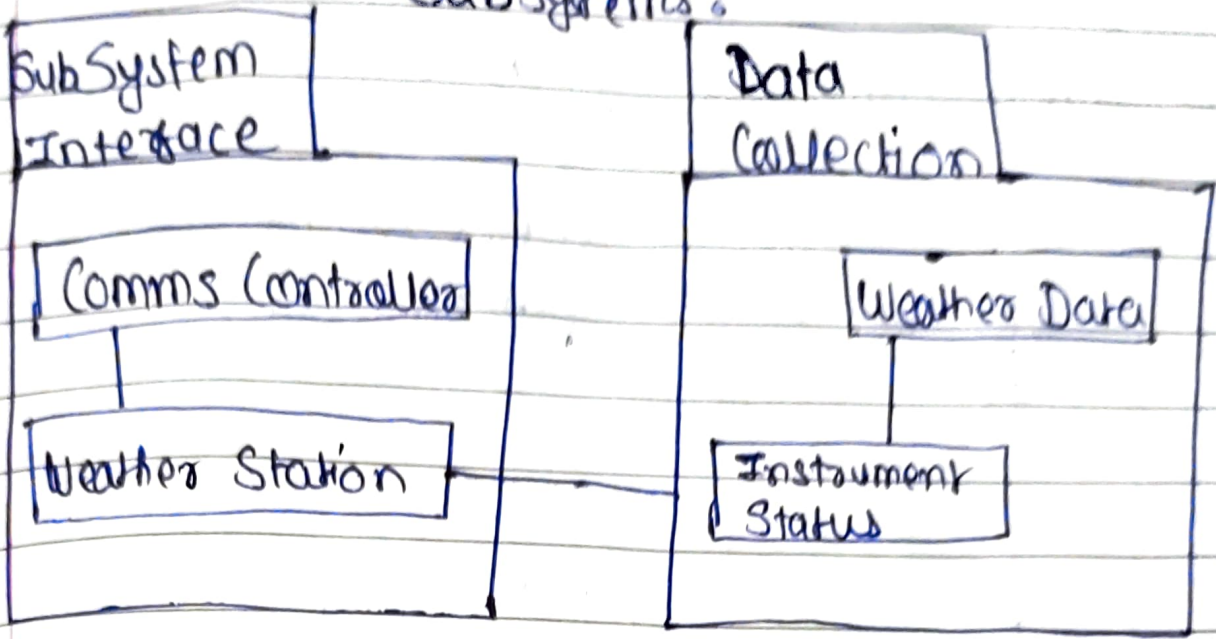
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SubSystems:

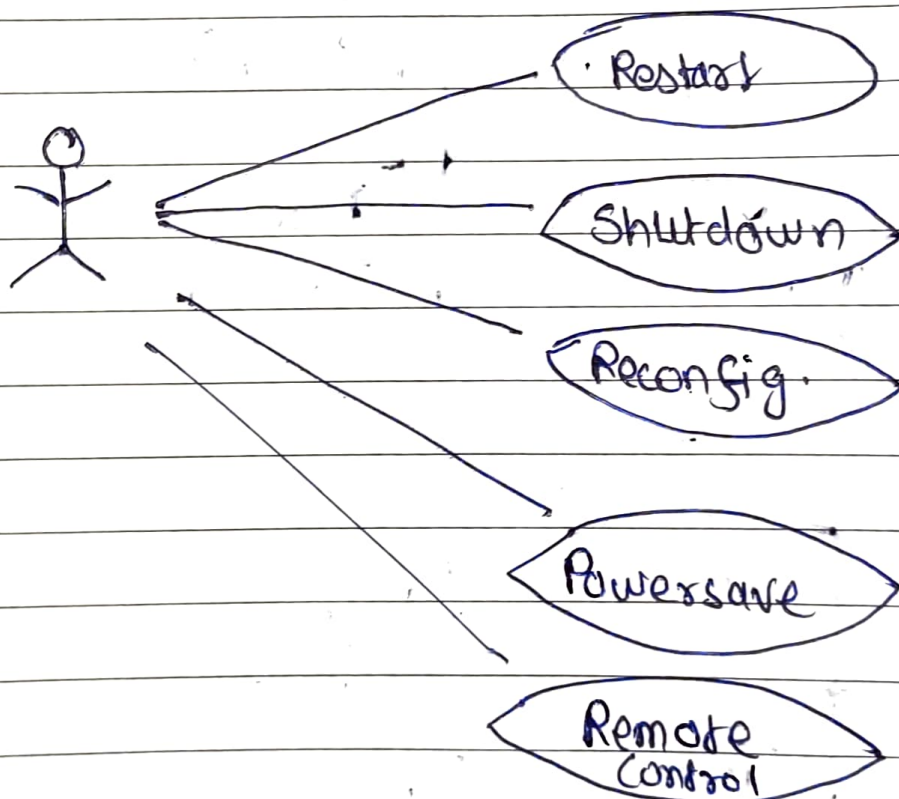
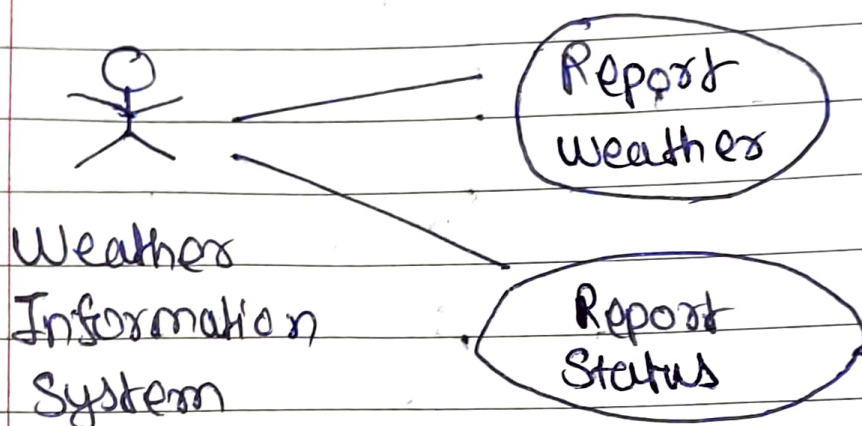
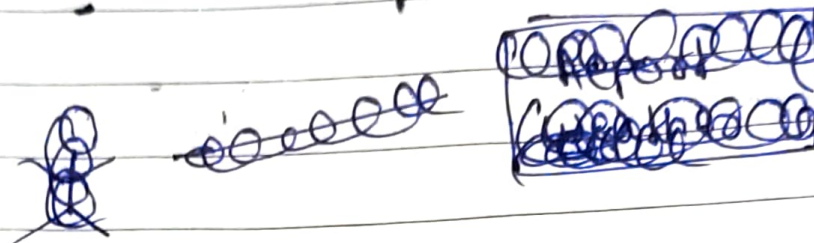
i)



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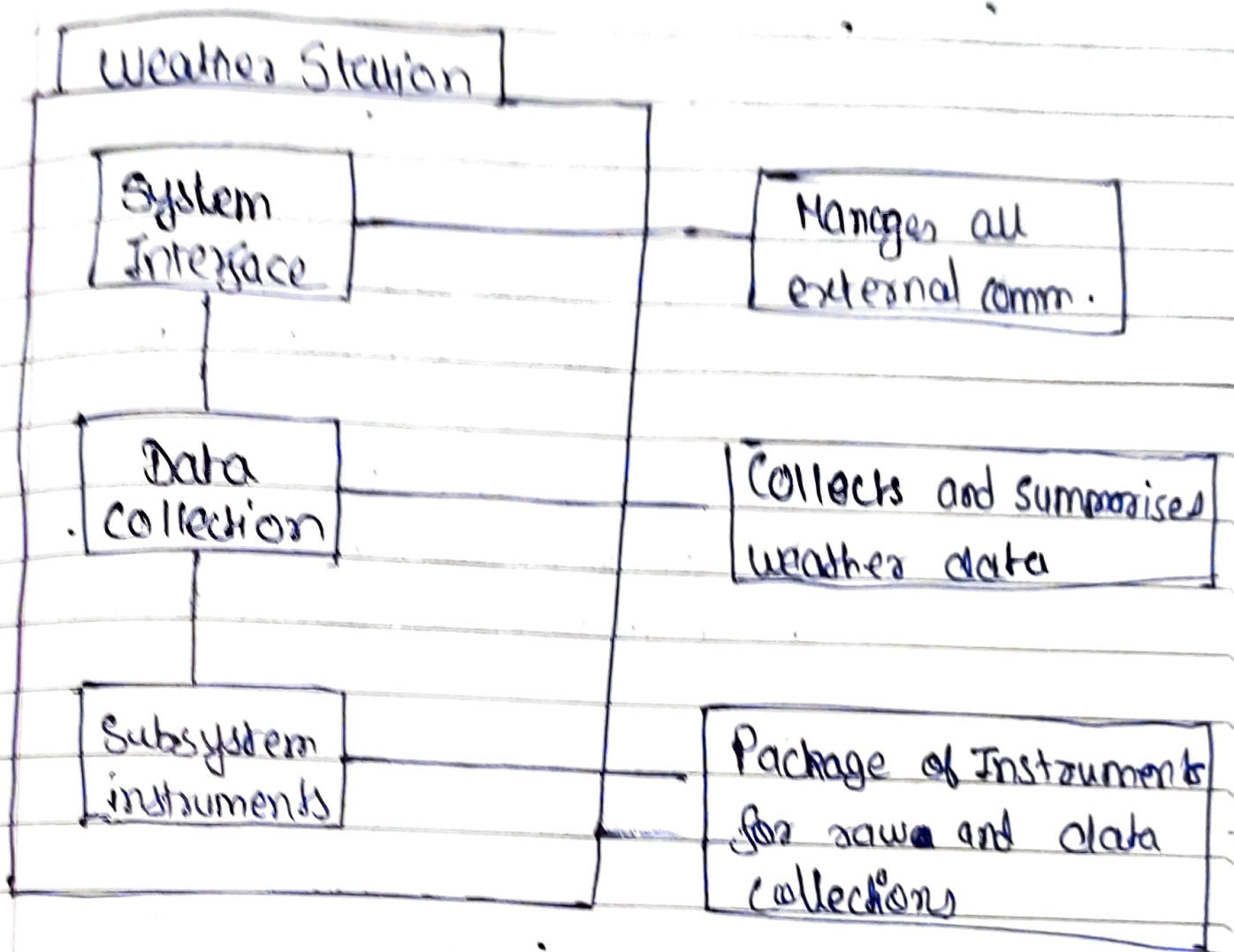
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ii.) Use Case Diagram :



Akash
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iii) weather station architecture



Q1.

b. Types of Interface:

- ① Command Line Interface (CLI)
- ② Menu Driven Interface (MDI)
- ③ Graphical User Interface (GUI)
- ④ Natural Language Interface (NLI)

Limitations:

- ① CLI : • Requires users to learn complex command.
 - Not very easy for novice user.
- ② MDI : • Can be frustrating for experienced users, since command is 5 level deep.
 - User interface may be limited by ~~screen space~~ screen space & number of options available.
- ③ GUI : • It use more system resources than other type of interface.
- ④ NLI : • It still contains "bugs".
 - Artificial Language are more often precise.
 - Difficulty dealing with homonyms.

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102.

- b. SDLC is a process which defines the various stages involved in the development of software for delivering a high-quality project.

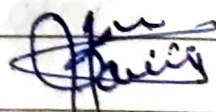
~~It helps in~~

The basic phases are:

- ① Planning and Requirement Analysis:
It is performed by the senior members of the team with inputs from the customer, sales department, market surveys in the industry.

- ② Design:
The requirement gathered in the SRS document is used as an input and Software Architecture.

- ③ Implementation:
The software design is translated in the source code.



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④ Testing :

The developed software is tested thoroughly and any defects are fixed.

⑤ Deployment:

Once the product is tested, it is deployed in the production environment.

⑥ ~~Maintenance~~ Maintenance:

After the deployment of the product in the production environment, if any issue comes up and needs to be fixed is taken care by the developers.

Example : A customer wants to have an application which streams movies. In this case the requirements are clear uploading movies in the database and then streaming it through video players.

Once requirement is done, we check the feasibility of the development of a product. And then we create the document of the application.



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