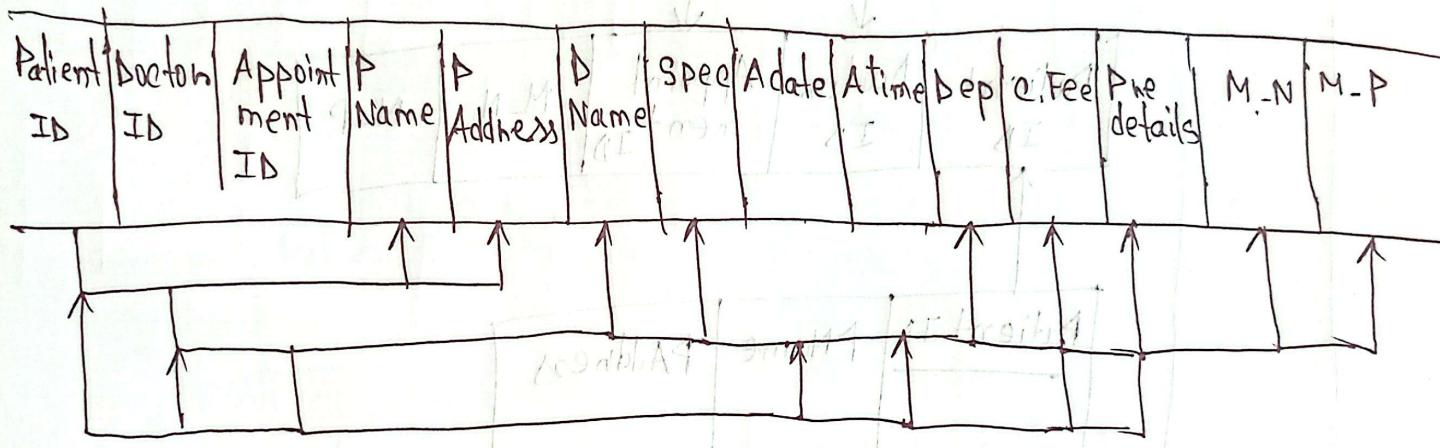


③ Question 1 (a)

①

Patient ID	Doctor ID	Appointment ID	P Name	P Address	D Name	Spec	A date	A time
123456789	987654321	111111111	John Doe	123 Main St	Dr. Smith	Orthopedist	2023-10-15	10:00 AM



The schema is already defining information as there are no composite, multivalued or nested attributes.

Composite, multivalued or nested attributes.

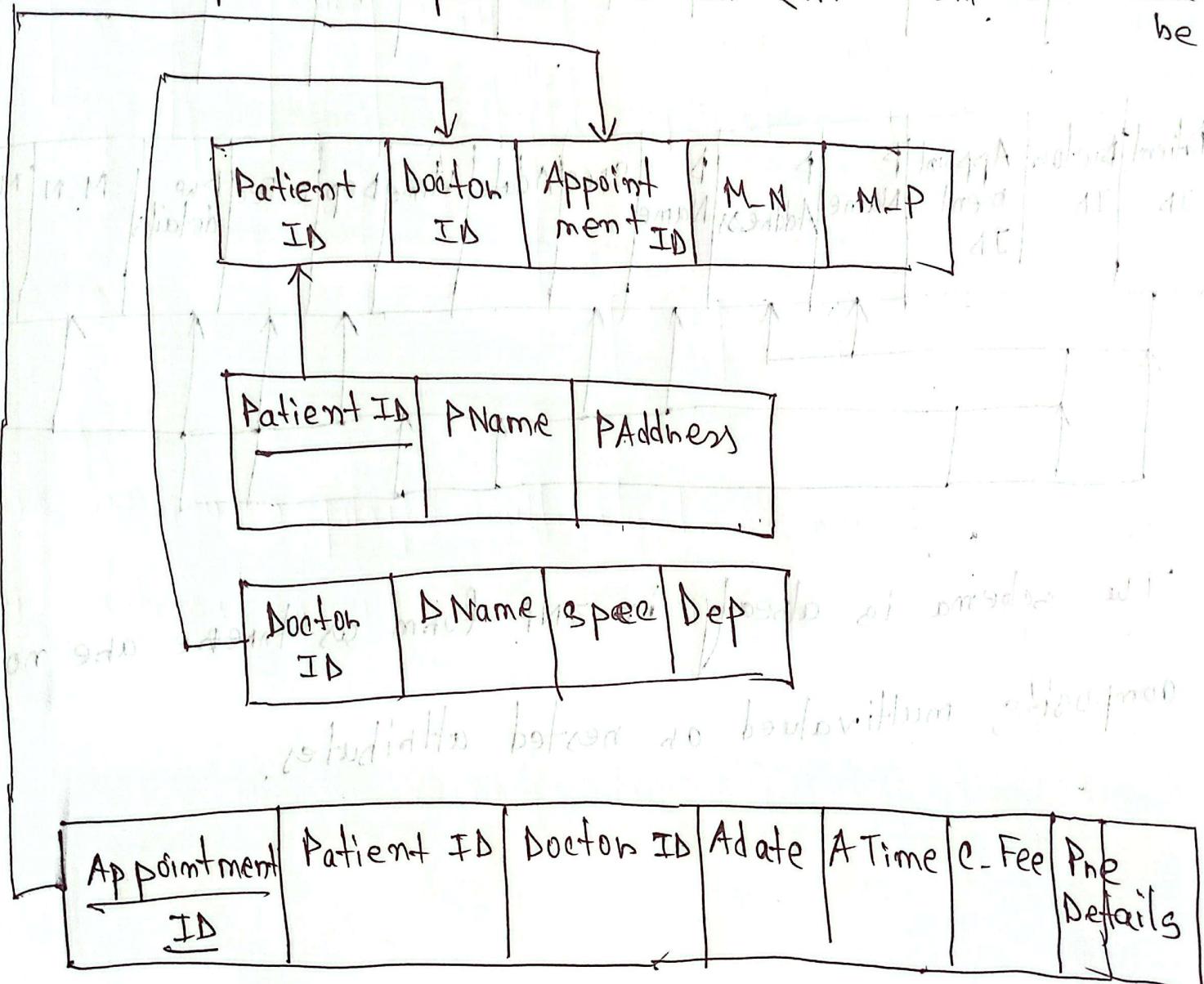
123456789	987654321	111111111	John Doe	Orthopedist	2023-10-15	10:00 AM
123456789	987654321	111111111	John Doe	Orthopedist	2023-10-15	10:00 AM

①

1/b

②

There are partial dependencies In 2NF from it should be



(1)

1/e

(2)

2NF/3NF

There is one transitive dependency. In 3NF it should be

Patient ID	Doctor ID	Appointment ID
------------	-----------	----------------

Patient ID	PName	PAddress
------------	-------	----------

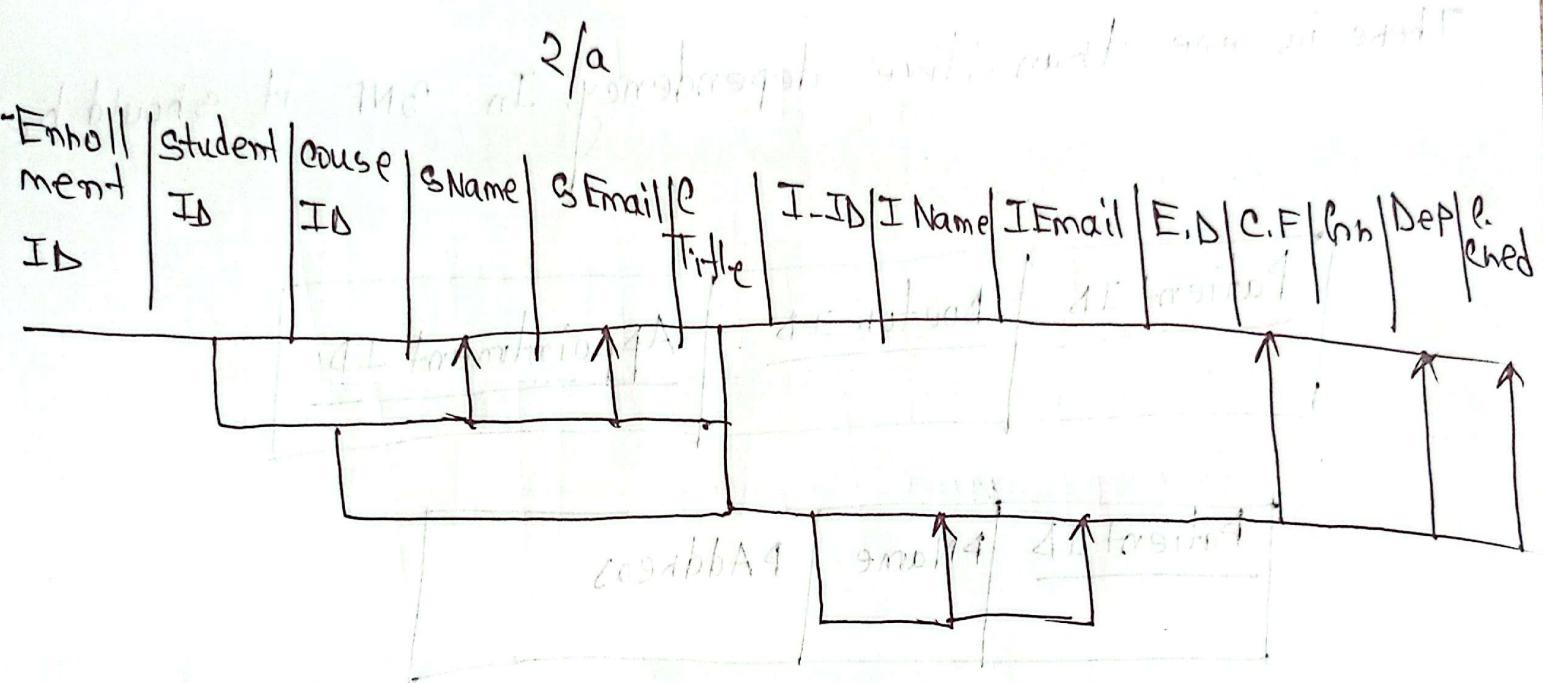
Doctor ID	DName	Spec	Dep
-----------	-------	------	-----

Appointment ID	Patient ID	Doctor ID	A Date	A Time	c-Fee	Pne-Details

↓

Pne-Details	MLN	M-P
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④ Question 2



There are no composite, multivalued, or nested attributes in the schema. So, it is in INF from already.

2011010101	2011010102	2011010103	2011010104
2011010101	2011010102	2011010103	2011010104

2/b

(5)

There are partial dependencies in the schema. The 2NF form should look like this

Enrollment ID	Student ID	Course ID	I-ID	I-Name	I-Email	E-ID	GPA
---------------	------------	-----------	------	--------	---------	------	-----

Student ID	S Name	S Email
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Course ID	C Title	C-FP	Dep	C-Cred
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(6)

2c

There are transitive dependencies in the schema. The 3NF form should look like this.

