

Question 01

a)

- i. Hardware - input devices - mouse, keyboard
processing devices - CPU, server
output devices - monitor
storage devices - RAM, hard disk
processing devices - mouse, keyboard

Software - instructions of the system
System Software.
library software.

stored data - student data
books data
borrowing and return data.

personel - users of the system
librarian

procedures - membership procedures
payment procedures
borrow and return procedures

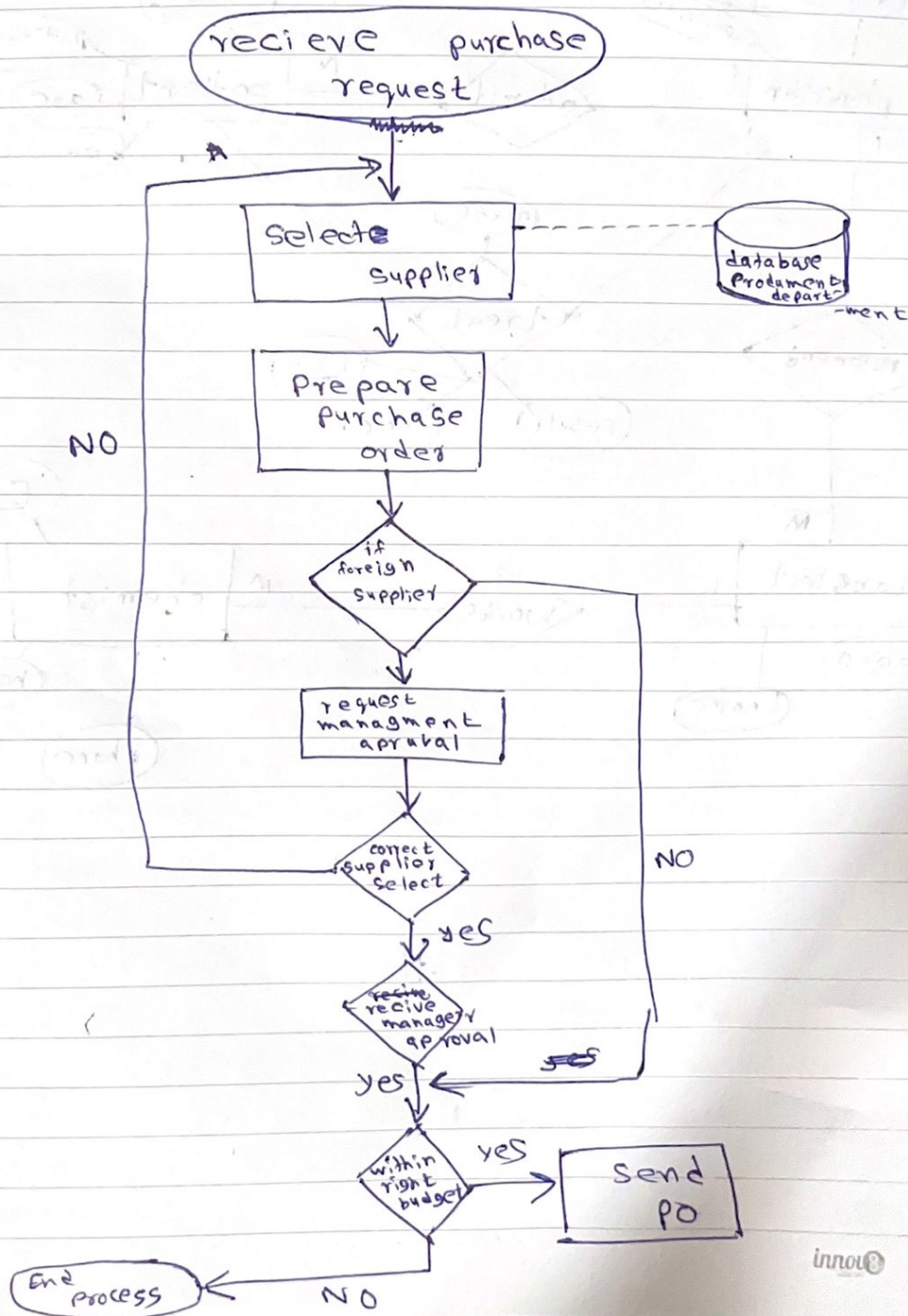
- ii. direct users - librarian
library assistant

indirect users - student
academic staff
non academic staff

- iii. Better information
increase productivity
improved service
competitive advantage.

i. office Automation systems

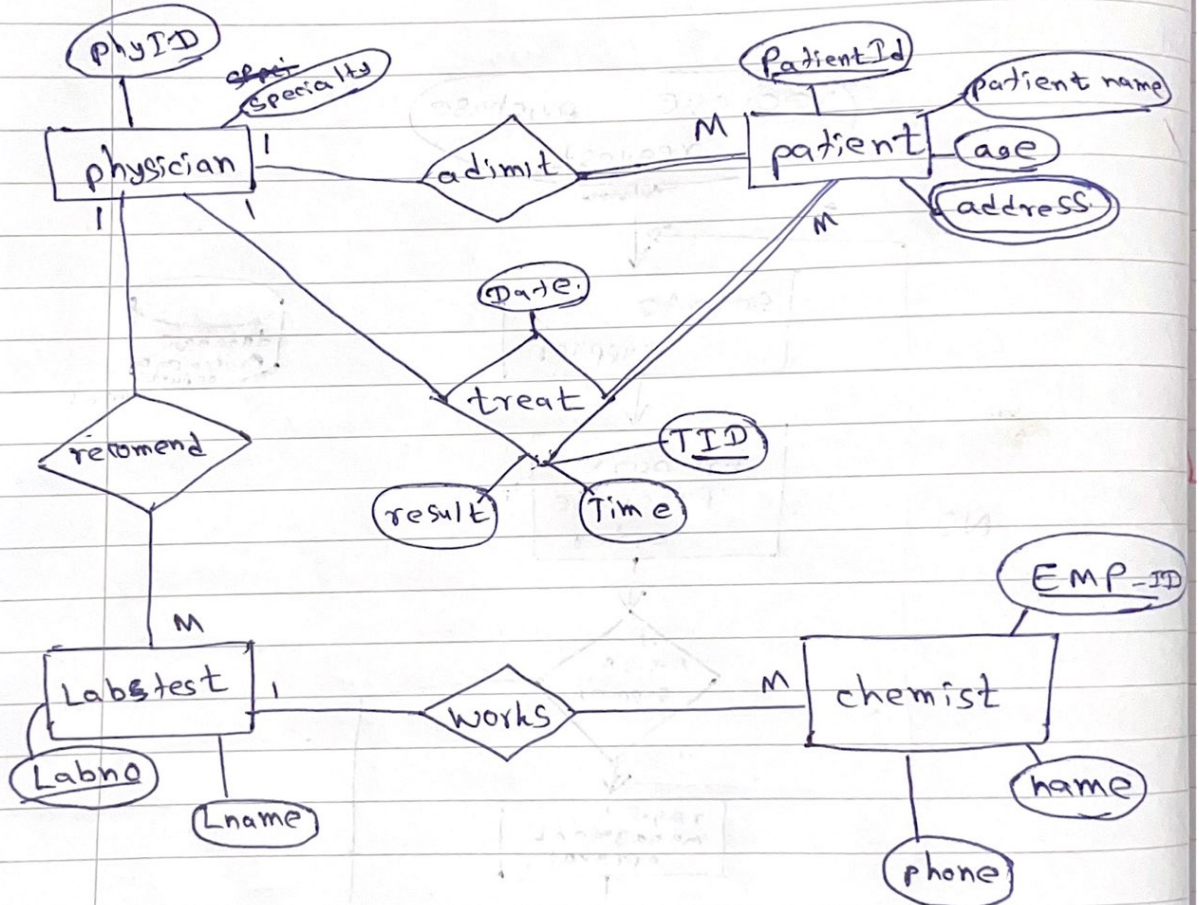
ii.



Date:/...../.....

Question 02

entities - physician
patient
treat
labtest
chemist



Date:

Question 03

student (SID, FName, LName, StudentGrade)

telephone (SID, Tel_No)

Team (Tname, class, SID)

labsection (class, LabAssistant, DragExpweek, year)

DragExpRun (RunNumber, Time, InitPositio, Distance, class, Tname)

member of (SID, Tname, class)

Question 4

a) CREATE ~~Customer~~ TABLE customer
 (
 ~~int~~ cid int,
 cname string,
 address string,
 city string,
 state string,
 constraint pk_cus primary key (cid).
);

b) INSERT INTO customer
 VALUES
 (100, 'Ama', 'kadawatha', 'colombo', 'western');

c) SELECT state, count(cid) as 'number of emp'
 FROM customer
 WHERE
 GROUP BY state, ~~con~~

d) SELECT P.Pname, ~~sh. amount~~ ^{sum(sh.amount)}, P.Pid
 FROM Product P, ShipmentProduct SP
 GROUP BY WHERE P.Pid = Sh.Pid.
 GROUP BY P.Pname, ~~sum(sh.amount)~~
 HAVING sum(sh.amount) > 10000

e) SELECT Product pid, Pname, Price.
 FROM Product
 WHERE price > SELECT price
 FROM Product
 WHERE ~~price~~ pid = '200'