

ICTE111: COMPUTER SYSTEMS AND APPLICATION

MID-SEMESTER (30 MARKS)

Develop an E.R diagram for any TWO of the following systems:

- A. Hospital Management System
- B. Hotel Management System
- C. Restaurant Management System
- D. Loan Management System for a Bank
- E. Airline Reservation System

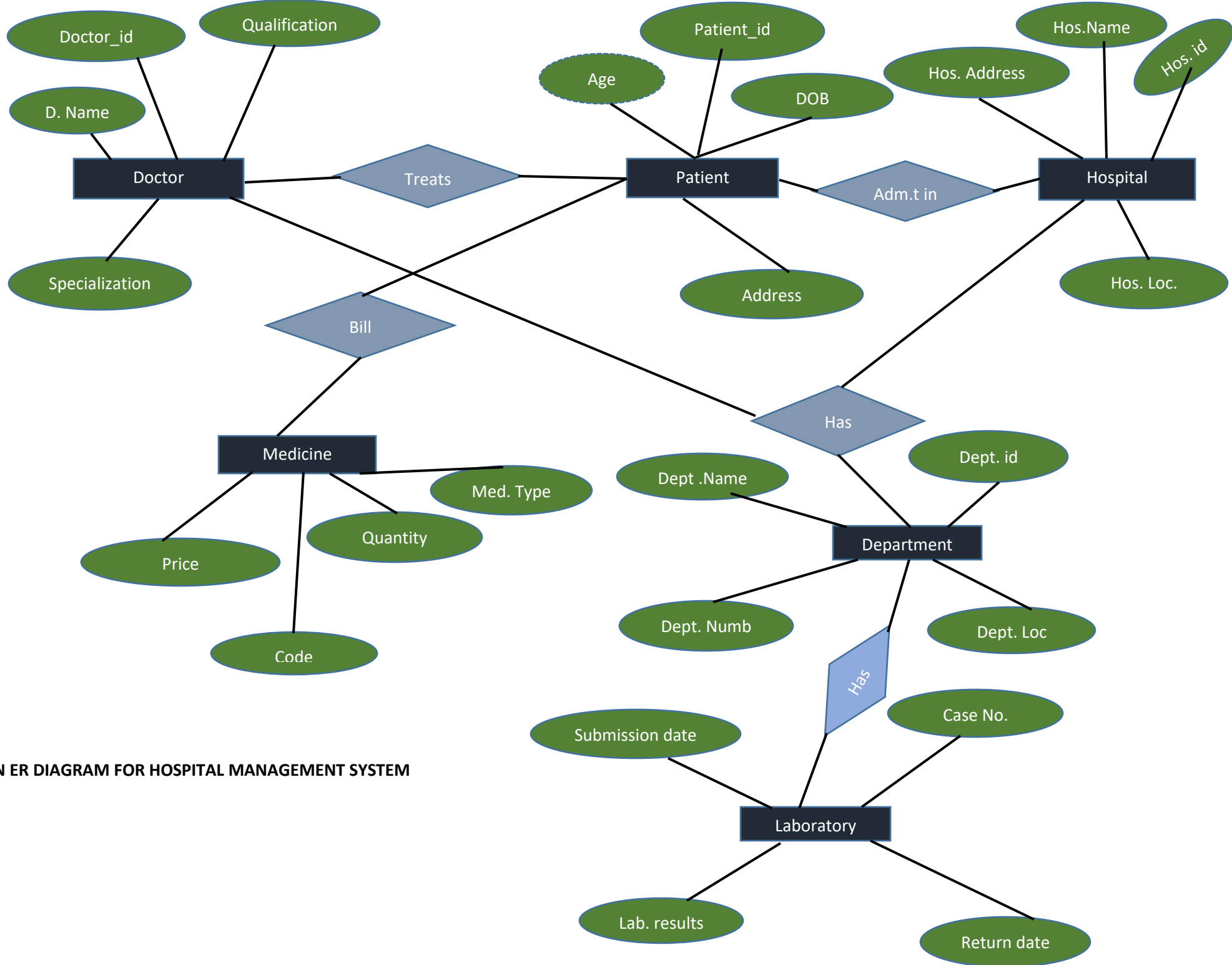
With each system you select, identify:

- i. Six (6) Entities 6 Marks
- ii. Each Entity should have 4 attributes 12 Marks
- iii. Identify the relationships among the entities. 12 Marks

How to Submit

Save your work with your *name_index number* and reupload via the vclass (moodle). You can convert it to a pdf document.

Closing Date: 12th March, 2021; 6pm



AN ER DIAGRAM FOR HOSPITAL MANAGEMENT SYSTEM

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A) Six(6) Entities

- I. Doctor
- ii. Patient
- iii. Hospital
- Iv. Department
- V. laboratory
- vi.Medicine

B)

C) Relationships among the entities

- *Doctor and Patient= One-to-One relationship
- *Doctor, Patient, Department, Hospital=Many-to-one or One-to-Many relationship
- *Hospital, department, laboratory= One-to-Many or Many-to-one relationship
- *Doctor and Department= One-to-One relationship
- *Department and laboratory= One-to-one relationship

AN ER DIAGRAM FOR RESTAURANT MANAGEMENT SYSTEM

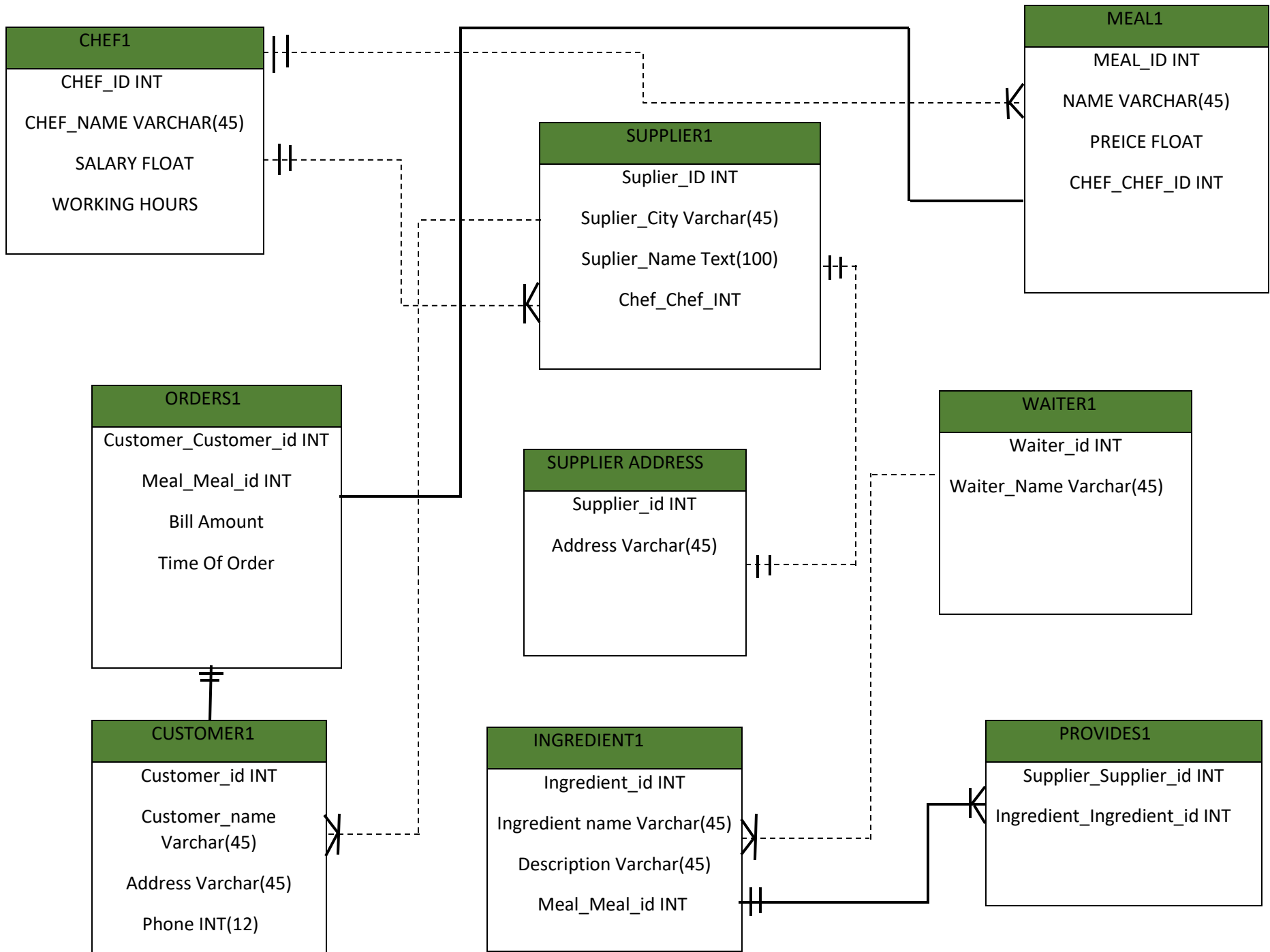
A) Six(6) Entities

- i.Chef1
- ii. Supplier1
- iii. Meal1
- iv Orders1
- v.Consumer1
- vi. Ingredient

B)

B) Relationships among the entities

- *Chef1,Meal1,Supplier1= One-to-many or Many-to-One relationship
- *Chef1,Supplier1= One-to-One relationship
- *Customer1,Supplier1= One-to-One relationship
- *Customer1,Orders1= One-to-One relationship
- *Ingredient1,Supplier= One-to-One relationship
- *Orders1,Meal1= One-to-One relationship



AN ER DIAGRAM FOR HOSPITAL MANAGEMENT SYSTEM