1. (a) Differentiate between a file processing system and data base management system.

(b) A university registrar’s office maintains data about the following entities: (a)courses, including number, title, credits, syllabus, and prerequisites; (b) courseofferings, including course number, year, semester, section number, instructor(s),timings, and classroom; (c) students, including student-id, name, and program;and (d) instructors, including identification number, name, department, and title.Further, the enrollment of students in courses and grades awarded to studentsin each course they are enrolled for must be appropriately modeled.Construct an E-R diagram for the registrar’s office.Document all assumptionsthat you make about the mapping constraints.

(c) Explain with some examples about the database management system.

1. (a) Explain the difference between DDL and DML with examples.

(b) Discuss about the different types of mapping cardinalities.

(c) What do you understand by Specialization and generalization, Give an example.