**Question 1**

Answer: d)

**Question 2**

Answer a:

Truck(platenumber, model, capacity, companycode)

FK(companycode) REFERENCES Company(companycode)

Company(companycode, name, email)

Answer b:

Hotel(hotelnumber, name)

Room(roomnumber, room type, hotelnumber)

FK(hotelnumber) REFERENCES Hotel(hotelnumber)

Answer c:

Project\_Employee(projectno, empno)

FK(empno) REFERENCES Employee(empno)

FK(projectno) REFERENCES Project(projectno)

Answer d:

Employee\_email(empno, email)

FK(empno) REFERENCES Employee(empno)

Answer e:

Employee(empno, birth\_date, family\_name, given\_name, managerno)

FK(managerno) REFERENCES Employee(empno)

**Question 3**

Answer a:

A(aa, bb)

B(cc, dd, aa)

FK(aa) REFERENCES A(aa)

Answer b:

X\_Y(aa, cc)

FK(aa) REFERENCES X(aa)

FK(cc) REFERENCES Y(cc)

Answer c:

O(aa, bb, cc)

FK (cc) REFERENCES P(cc)

P(cc, dd)

**Question 4**

Crew\_sailor (snn, sailingdate)

FK (snn) REFERENCES Sailor(snn)

FK (sailingdate) REFERENCES Crew(sailingdate)

Sailor (sailorNo, snn, given\_name, family\_name)

Crew (sailing\_date, start\_time, description, captainNo, engineerNo)

FK (captainNo) REFERENCES Sailor(sailorNo)

FK (engineerNo) REFERENCES Sailor(engineerNo)

Phone (sailorNo, phone)

FK (sailorNo) REFERENCES Sailor(sailorNo)

**Question 5**

Degree\_program (program\_code, program\_name)

Course (course\_code, course\_name, credits, program\_code)

FK (program\_code) REFERENCES Degree\_program(program\_code)

Course\_offering (offering\_number, start\_date, course\_code)

FK (course\_code) REFERENCES Course(course\_code)

Student\_course\_offering (student\_number, offering\_number, course\_code)

FK (student\_number) REFERENCES Student(student\_number)

FK (offering\_number, course\_code) REFERENCES Course\_offering(offering\_number, course\_code)

Teacher\_course\_offering (employee\_number, course\_code, offering\_number)

FK (offering\_number, course\_code) REFERENCES Course\_offering(offering\_number, course\_code)

FK (employee\_number) REFEENCES Teacher(employee\_number)

Student (student\_number, given\_name, family\_name, thesis\_advisor, study\_advisor)

FK (thesis\_advisor) REFERENCES Teacher(employee\_number)

FK (study\_advisor) REFERENCES Teacher(employee\_number)