

- 14.14 Examine the Patient Medication Form for the Wellmeadows Hospital case study (see Appendix B) shown in Figure 14.18.
- (a) Identify the functional dependencies represented by the attributes shown in Figure 14.18. State any assumptions that you make about the data and the attributes shown in this form.
- (b) Describe and illustrate the process of normalizing the attributes shown in Figure 14.18 to produce a set of well-designed 3NF relations.
- (c) Identify the primary, alternate, and foreign keys in your 3NF relations.

Wellmeadows Hospital Patient Medication Form							
Full Name: Robert MacDonald		Patient Number: P10034		Ward Number: Ward 11		Bed Number: 84	
Ward Name: Orthopaedic							
Drug Number	Name	Description	Dosage	Method of Admin	Units per Day	Start Date	Finish Date
10223	Morphine	Pain Killer	10mg/ml	Oral	50	24/03/08	24/04/09
10334	Tetracycline	Antibiotic	0.5mg/ml	IV	10	24/03/08	17/04/08
10223	Morphine	Pain Killer	10mg/ml	Oral	10	25/04/09	02/05/10

Figure 14.18 The Wellmeadows Hospital Patient Medication Form.