

Question#1 Solution:

1)

```
(deftemplate Patient
  (slot temperature)
  (slot spots)
  (slot rash)
  (slot throat))
```

```
(assert (Patient (temperature "101 degree fahrenheit") (spot 'yellow') (rash 'red') (throat 'infected')))
```

2) (deftemplate Diagnosis

(slot disease))

```
(assert (Diagnosis (disease allergy)))
```

3)

```
(deftemplate Treatment
  (slot Medicine))
```

```
(assert (Treatment (Medicine "Novidat and Evil")))
```

Question#2 Solution:

1)

```
(defrule Disease
```

```
(Patient (temperature "101 degree fahrenheit") (spot yellow) (rash red) (throat infected))
=>
```

```
(assert (Diagnosis (disease allergy)))
```

```
(printout t "patient is suffering from allergy" crlf))
```

2)

```
(defrule Suggestion
```

```
(Diagnosis (disease allergy))
```

```
=>
```

```
(assert (Treatment (Medicine "Novidat and Evil" )))
```

```
(printout t "Novidat and Evil medicines should be used" crlf))
```

.