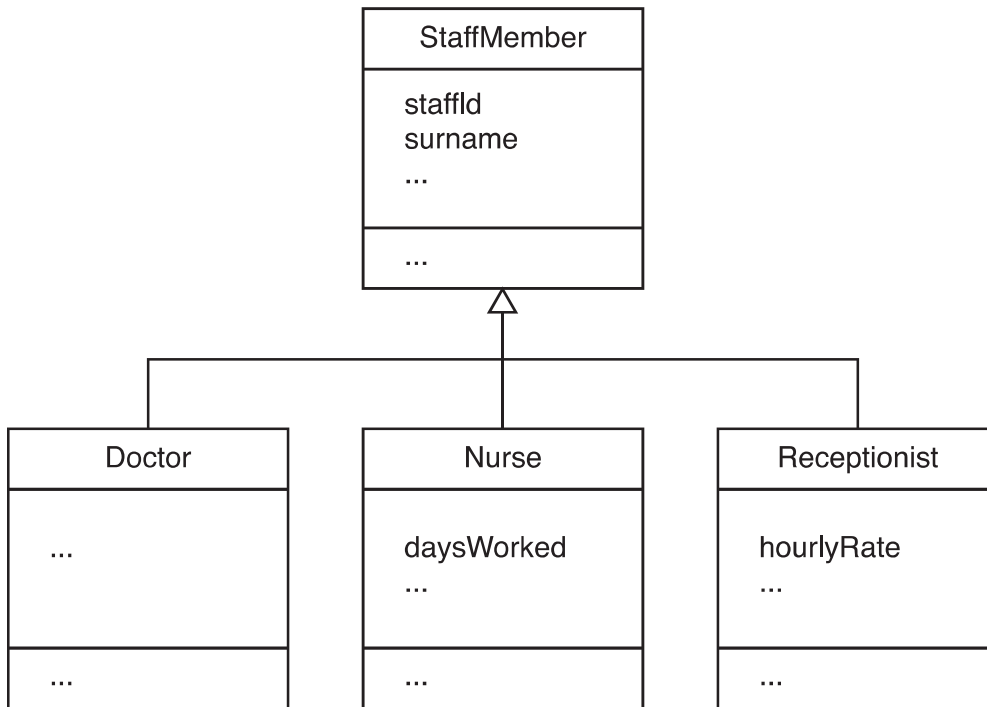


- 6 The UML class diagram shows some of the information about staff working in a health centre.



- (a) (i) Using the class diagram above, explain the term inheritance.

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- (ii) Dr Connor is a doctor at the health centre.

From the diagram, explain why his attributes include surname but do not include hourlyRate.

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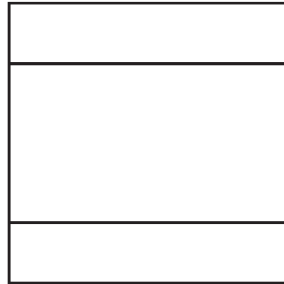
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- (b) Cleaning staff should be included in the class diagram. A cleaner needs the attribute `hoursWorked` and operation `getHours()`.

Show this information on the diagram below.



[3]

- (c) Mrs Jones is employed as a cleaner at the same health centre. The following program code may be used.

```
oneCleaner = Cleaner new
oneCleaner.giveSurname: 'Jones'
```

Use the information given to explain the terms object and class. Give an example of each.

- (i) object

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- (ii) class

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