

- (a)** Draw an inheritance diagram for these classes.

[3]

- (b)** The design for the `Employee` class consists of:

- **properties**
  - EmployeeName
  - EmployeeID
  - AmountPaidThisMonth
- **methods**
  - SetEmployeeName
  - SetEmployeeID
  - CalculatePay

Write **program code** for the class definition of the superclass `Employee`.

Programming language ..... [5]

- (c) (i) State the properties and/or methods required for the subclass `HourlyPaidEmployee`.

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..... [4]

- (ii) State the properties and/or methods required for the subclass `SalariedEmployee`.

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..... [2]

- (d) Name the feature of object-oriented program design that allows the method `CalculatePay` to be declared in the superclass `Employee`.

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..... [1]