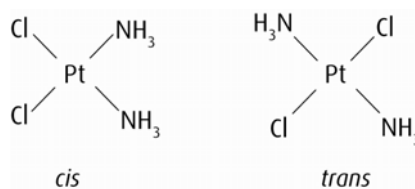


Marking scheme for AHL Worksheet – Option D**1 a**

[2]

**b** *cis* form

[1]

cis form can bind to DNA which stops DNA replication,
trans form cannot bind to DNA

[1]

c +2

[1]

2 a 4

[1]

b β-lactam ring

[1]

c ketone

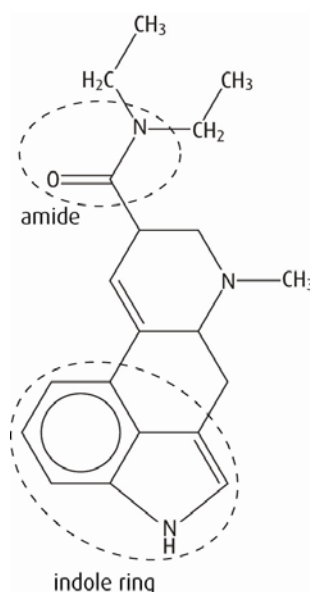
[1]

alkene

[1]

3 a and b

[2]

**4 a** ester

[1]

b diamorphine is less polar

[1]

able to cross the blood–brain barrier more easily

[1]