

- M1.** (a) *Electrophile*: e⁻ pair / lone pair acceptor or e⁻ deficient species or e⁻ seeking species (1)

For 'species' accept atom, molecule, ion

NOT '+' ion

NOT 'attracted to '-' charge'

Addition: reaction which increases number of substituents or convert double bond to single bond or where two molecules form one molecule (1)

2

- (b) (High) e⁻ dense or e⁻ rich C=C or e⁻ rich π bond or 4 e⁻ between the C's (1)
NOT just 'C=C'

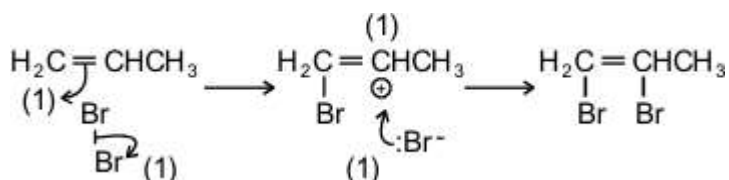
causes induced dipole in Br₂ (1)

Ignore refs to 'temporary'

can score M2 from δ⁺ / δ⁻ on Br₂ in (c) unless a contradicting error in (b)

2

- (c) *Mechanism*:



If incorrect alkene, lose M3 (wrong cation)

Mark M4 conseq on M3

If M1 curly

arrow C=C

allow

Name of product: 1,2-dibromopropane (1)

5

- (d) addition (1)

Not additional

1

[10]

M2.A

[1]

M3.C

[1]

M4.C

[1]

M5.C

[1]