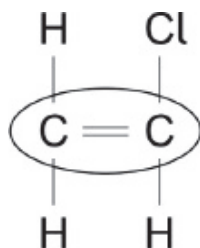


Mark schemes

Q1.

(a)



1

(b) C-C bond

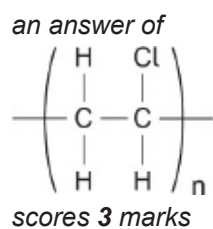
1

3x C-H **and** 1x C-Cl bonds

1

2x single bonds extending through brackets
and
 n below halfway

1



(c) composites

1

(d) water

allow H₂O

1

(e) (*M_r* of NH₂ and COOH) = (2 × 1) + 14 + 12 + (2 × 16) + 1 = 61

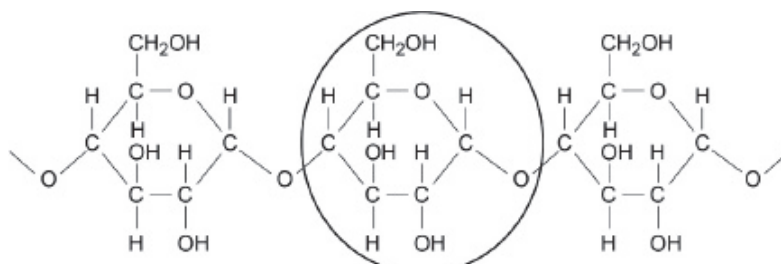
1

(*M_r* of section = 75 - 61) = 14

*allow correct use of incorrectly determined M_r of
 NH₂ and COOH*

1

(f)



1

(g) starch

*allow cellulose**allow glycogen**allow polysaccharide*

1

(h) nucleotides

1

(i) double helix

ignore DNA

1

[12]