Multiple Choice Answers

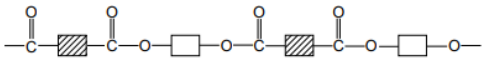
Q32: C

Q34: C

Q36: B

Multiple Choice Answers

Q34: C

5(a)(i)	$C_nH_{2n+1}OH$
5(a)(ii)	(same) functional group
5(b)(i)	**M1** 25–35 **M2** 300 **M3** yeast **M4** acid **M5** absence of oxygen **M6** 60 atm
5(b)(ii)	$C_6H_{12}O_6 \rightarrow 2C_2H_5OH + 2CO_2$ **M1** $C_6H_{12}O_6$ as the only reactant on left **M2** correct equation
5(b)(iii)	$C_2H_4 + H_2O \rightarrow C_2H_5OH$ **M1** both $C_2H_4 + H_2O$ only on left **M2** correct equation
5(c)(i)	$C_4H_{10}O_2$
5(c)(ii)	2
5(d)(i)	$C_2H_3O_2$
5(d)(ii)	hydrogen
5(e)(i)	 **M1** any one correct fully displayed ester link between any two blocks **M2** three fully displayed inter-block ester links with correct orientation **M3** fully correct diagram showing **two** complete repeat units of polyester including continuation bonds
5(e)(ii)	condensation (polymerisation)

5(a)	**M1** (have a) general formula of C_nH_{2n+2} **M2** differ from one member to the next by a $–CH_2–$ unit
5(b)(i)	increases

5(b)(ii)	**M1** physical property **M2** change as chain length increases
5(c)	all carbon–carbon bonds are single (bonds)
5(d)(i)	ultraviolet light
5(d)(ii)	**M1** $CH_3CH_2CH_2Cl$ **M3** 1-chloropropane **M2** $CH_3CHClCH_3$ **M4** 2-chloropropane
5(d)(iii)	(compounds with) the same molecular formula but different structural formulae or structure

Multiple Choice Answers

Q35: D