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Year 12 Chemistry Self-Assessment Topic 3: Organic and Biological Chemistry

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| **Learning Intention** | **Review Test Questions** | **Chapter Questions** | **Proficiency** | **Comments/questions** |
| Structural formulae | 1(a)4(c)(2) | 70(a)71(a) |  |  |
| Systematic names | 1(b) | - |  |  |
| Condensation reactions | 3(c)(3) | - |  |  |
| Physical properties | 1(c), (d)(2) | 70(b)71(b)-(c) |  |  |
| Naming/drawing alcohols | 1(d)(1)3(b)(1) | 72-76 |  |  |
| Oxidation of alcohols | - | 77-78 |  |  |
| Naming/drawing aldehydes/ketones | 3(a) | 80-85 |  |  |
| Oxidation of aldehydes | 2(d) | 86-87 |  |  |
| Carbohydrates | 2(b)(1), (c)(1) | 88, 91(a) |  |  |
| Saccharides | 2(a), (b)(2) | 89(a)-(b), (e)(1)9091(c) |  |  |
| Glucose | 2(c)(2) | 91(b) |  |  |
| Naming/drawing carboxylic acids | - | 92-94 |  |  |
| Carboxylic acids as acids | - | 95-99 |  |  |
| Naming/drawing amines | - | 100-103 |  |  |

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| Amines as bases | **-** | 104 |  |  |
| Naming/drawing esters | 2(f)4(e)(1) | 105-109 |  |  |
| Preparation of esters | - | 110 |  |  |
| Hydrolysis of esters | - | 111-112 |  |  |
| Drawing amides | 4(a) | 113-114 |  |  |
| Hydrolysis of amides | 4(b) | 115-116 |  |  |
| Drawing triglycerides | - | 117 |  |  |
| Hydrolysis of triglycerides | 1(e)(1) | 118-119 |  |  |
| Saturation of triglycerides | 4(c)(1), (d)(1) | 120-122 |  |  |
| Hydrogenation of triglycerides | - | 123 |  |  |
| Micelles | - | 124 |  |  |
| Amino acids | - | - |  |  |
| Self-ionisation of amino acids | 3(c)(4) | 125 |  |  |
| Formation of proteins | 3(c)(5) | 126 |  |  |
| Spatial arrangement of proteins | 3(c)(2) | 127 |  |  |
| Biological function of proteins | 2(e)4(e)(2) | 128 |  |  |