

Studyclix Topic Analysis - Leaving Cert Biology Experiments

Exam Question	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008	2007	2006	2005	FREQUENCY
Investigate the growth of leaf yeast using agar plates		Q9 (a) & (b)			Q8 (b)			Q8 (b)		Q9 (b) (iv)			Q8 (a) & (b)		Q9 (a) & (b)	4.4
Investigate the effect of IAA growth regulator on plant tissue	Q 7 (b)(iii)				Q 8 (c)							Q8 (a) & (b)		Q7 (b) (i)		1.6
Isolate DNA from a plant tissue	Q 7 (b)(ii)		Q9 (b) (iv)		Q7 (a) & (b)				Q9 (a) & (b)	Q9 (b) (iii)				Q7 (b) (iii)	Q8 (a) & (b)	2.8
Ecology Experiments (combined)	Q 10 (c)		Q7 (a) & (b)	Q10 (b) (i)			Q7 (b)					Q7 (b)		Q9 (a) & (b)		5.2
Investigate the effect of heat denaturation on the rate of catalase activity							Q8 (b)					Q9 (a) & (b)	Q7 (a) & (b)			3
The Scientific Method	Q2	Q7 (a)	Q9 (a)	Q7 (a)	Q9 (a) & (b)	Q9 (a)	Q9 (a)	Q7 (a)	Q7 (a) & (b)	Q8 (a)		Q3			Q2	6.4
Prepare and examine animal & plant cell using the light microscope	Q 7 (b)(i)			Q7 (b) (iii)		Q8 (b)	Q9 (b) (iii)			Q9 (b) (i)				Q8 (b)		2.8
Investigate the effect water, oxygen and temperature on germination			Q9 (b) (i)			Q7 (a) & (b)	Q9 (b) (iv)	Q7 (b) (v)			Q8 (a) & (b)					2.6
Dissect, display and identify an ox's or sheep's heart						Q9 (b)		Q7 (b) (i)		Q7 (a) & (b)						2.2
Investigate the effect of pH & temperature on the rate of enzyme activity			Q8 (a) & (b)		Q7 (c)			Q9 (b)								3
Prepare an enzyme immobilisation and examine its application				Q7 (b) (iv)							Q9 (a) & (b)				Q7 (a) & (b)	2.2
Investigate the influence of light intensity or carbon dioxide on the rate of photosynthesis		Q8 (a) & (b)					Q9 (b) (i)			Q9 (b) (ii)	Q12 (c)		Q9 (a) & (b)			2.4
Be familiar with and use the light microscope		Q7 (b) (iii)				Q8 (a)		Q7 (b) (viii)								1.2
Prepare and examine microscopically the transverse section of a dicotyledonous stem (X100, X400)	Q 9		Q9 (b) (ii)						Q8 (b) (iv)		Q7 (a) & (b)			Q14 (c) (iv)		2.6
Conduct any activity to demonstrate osmosis	Q 7 (b)(iv)		Q9 (b) (iii)				Q9 (b) (ii)	Q7 (b) (vi)								0.8
To test for starch, fat, reducing sugars, and protein	Q 7 (a)	Q7 (b) (iv)		Q7 (b) (i)						Q9 (b) (v)				Q7 (a)		1
Investigate the effect of exercise on the breathing rate or pulse rate of a human				Q8 (a) & (b)					Q8 (b) (iii)							1.2
Use starch agar or skimmed milk plates to show digestive activity during germination				Q9 (a) & (b)				Q7 (b) (iii)						Q7 (b) (ii)		1.4
Prepare and show the production of alcohol from yeast	Q 8	Q7 (b) (ii)														1.2

Our Predictions:

- Scientific Method is frequently asked so it is likely to appear as a part of a question
- An enzyme experiment question, most likely to appear is the enzyme immobilisation and examine its application
- Ecology experiment to appear as part of a question
- Investigate the growth of leaf yeast using agar plates

KEY :

Long Question = 1

Short Question = 0.2