

## End-of-Topic Test Mark Scheme: Life and Living Processes 2: Lower Levels

Question	Level	Answer
1a) i) ii)	4	Tar; nicotine
b) i)	4	Nicotine
ii)	4	People crave it, they cannot cope without it
c)	4	It joins with red blood cell/RBC; prevents them carrying oxygen
2 i)	4	✓
ii)	4	✗
iii)	4	✗
iv)	4	✗
v)	4	✗
vi)	4	✓
3a) i) ii)	4	Any two correctly identified inherited features, e.g. sex, eye colour, skin colour
b) i) ii)	4	Any two correctly identified environmentally affected features, e.g. diet, health, exercise
4a)	4	Same genes/chromosomes/DNA; no fertilisation; little/no variation
b)	4	Sperms; eggs; join/fertilisation; reference to offspring produced
c)	4	Inherited features; genes; from mother AND father/both parents
5a)	5	Producing offspring with desired features; by choosing parents; choosing features
b)	5	e.g.: more meat; more milk
c)	5	Very long time; many generations;
6a)	5	Idea that even small bits of roots will re-grow into whole plants
b)	5	Had the same chromosomes; genes; DNA
c)	5	Remove/dig up/ kill every last bit of root; prevent them from re-growing;
d)	5	Attract insects for pollination
7a)	5	Idea of passed down from parents/previous generation
b)	5	Come from same fertilised egg; same genetic information/genes/chromosomes/DNA; same sperm
c)	5	Environmental factors
8a)	5	Correctly labelled diagram
b)	5	In the nucleus
c)	5	Chromosomes are long threads structures;

		genes are units linked together to form a chromosome; correct ref to DNA
9a) i)	6	e.g. of violence: kick; slap; hit
a) ii)	6	e.g.: threats; spreading rumours
b) i) ii)	6	Any two from: defence of territory; parental defence of young; self defence; re-directed aggression; learned aggression; attack (by predator)
c) i) ii)	6	Any two from: defence of territory; parental defence of young; self defence; re-directed aggression; learned aggression; attack (by predator)

### Level boundaries for complete test

Mark	Level descriptor
1-9	Level 4 (weak)
10-19	Level 4 (secure)
20-24	Level 4 (strong)
25-29	Level 5 (weak)
30-37	Level 5 (secure)
38-41	Level 5 (strong)
42-43	Level 6 (weak)
44-45	Level 6 (secure)